



TRI LUX
SIMPLIFY YOUR LIGHT.

OUTDOOR 2014



OUTDOOR 2014

HIGHLIGHTS



Lutera LED ▶ 161



Faciella LED ▶ 186



Viatana LED ▶ 56



Publisca LED ▶ 14



Convia LED ▶ 20



ConStela LED ▶ 132

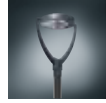


Cuvia LED ▶ 64



Lumega LED ▶ 70

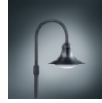
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LED



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(LED)



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931...



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Viatana
LED



62
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981...
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35
982...
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38
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41
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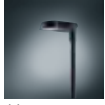


44
986...
(LED)



47
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(LED)

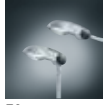
Luminaires for street lighting and residential areas



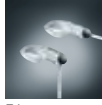
64
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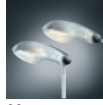
67
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70
970...
Lumega 600
(LED)



76
971...
Lumega 700
(LED)



82
972...
Lumega 900
(LED)



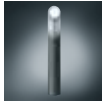
86
877...



90
Symbol I



132
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135
882...



140
883...



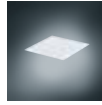
145
884...
(LED)



148
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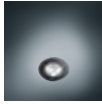


154
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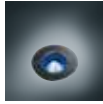


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Luminaires for pathways and architecture lighting



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Lutera 90
LED



163
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Emporium



178
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186
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190
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Lumena Star
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8661...
Estadia



224
Combial

Bezeichnung

Erweiterung
Wanne 8772, 9172 Ersatz
Wanne 9387A Ersatz
Wanne 9511/9512 Ersatz
Wanne 9701/9702 Ersatz
Wanne 9711/9712 Ersatz
Wanne 9721/9722 Ersatz
Wanne 9800 Ersatz
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www.trilux.com/outdoor

* Product information for these ranges can be found on the internet.

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26 Elle
32 981... lantern
35 982... decorative indirect luminaire
38 983... cone luminaire
41 985... classic luminaire

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Roads							
Urban highways							
Traffic roads							
Main roads, residential roads							
Collection roads	●	●	●	●	●	●	●
Residential roads	●	●	●	●	●	●	●
Low-traffic roads	●	●	●	●	●	●	●
Pedestrian areas							
Pedestrian zones	●	●	●	●	●	●	●
Arcades and passages	●	●		●	●	●	●
Cycle paths		●					
Paths in parks and green areas	●	●	●	●	●	●	●
Residential facilities	●	●	●	●	●	●	●
Stairways and access areas	●	●	●	●	●	●	●
Light around the building							
Squares							
Traffic nodes, roundabouts							
Car parks	●	●	●	●	●	●	●
Outdoor workplaces							
Building sites							
Works roads		●					
Harbour and shipping facilities							
Warehousing and container areas							
Power stations							
Quarries and mining							
Airports							
Apron lighting							
Sports centres							
Stadiums							
Tennis courts							
Swimming centres, ice rinks							
Golf courses							
Cross country ski courses							
Ski slopes							
High halls							
Airport halls							
High sports halls							
Works halls							
Trade fair halls							
Accent lighting							



44
986...
classic
cone
lumi-
naire



47
987...



50
9301 K...



54
931...



56
Viatana



62
Lumega
IQ



64
Cuvia



70
970...
Lumega
600



76
971...
Lumega
700



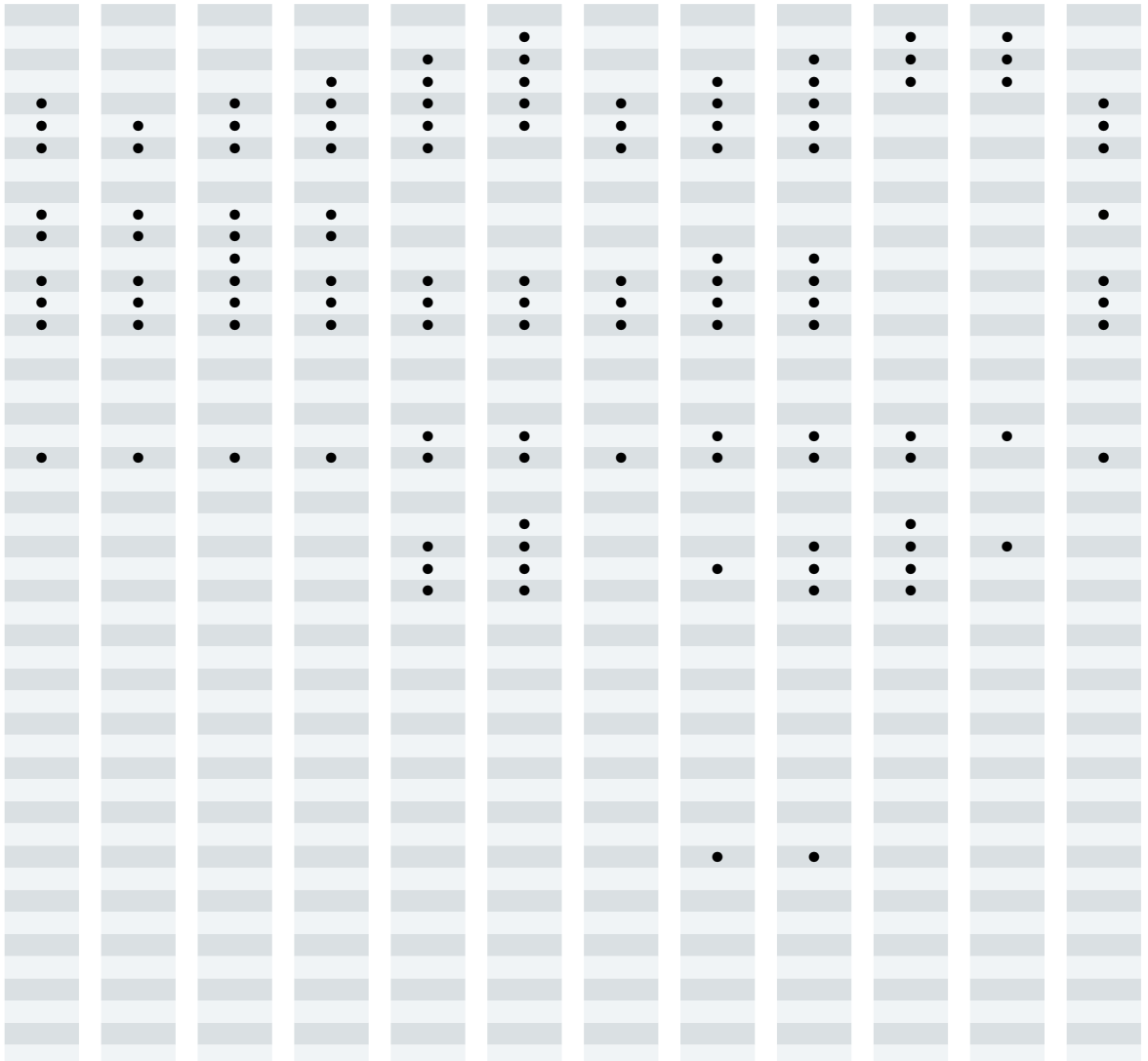
82
972...
Lumega
900



86
877...



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Symbol



Application recommendations



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SR



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Roads							
Urban highways							
Traffic roads							
Main roads, residential roads							
Collection roads							●
Residential roads							●
Low-traffic roads							●
Pedestrian areas							
Pedestrian zones	●			●	●	●	●
Arcades and passages	●	●	●	●	●	●	●
Cycle paths							
Paths in parks and green areas			●	●	●	●	●
Residential facilities	●	●	●	●	●	●	●
Stairways and access areas	●	●	●	●	●	●	●
Light around the building	●	●	●	●	●	●	●
Squares							
Traffic nodes, roundabouts							
Car parks				●	●		
Outdoor workplaces							
Building sites							
Works roads							
Harbour and shipping facilities							
Warehousing and container areas							
Power stations							
Quarries and mining							
Airports							
Apron lighting							
Sports centres							
Stadiums							
Tennis courts							
Swimming centres, ice rinks							
Golf courses							
Cross country ski courses							
Ski slopes							
High halls							
Airport halls							
High sports halls							
Works halls							
Trade fair halls							
Accent lighting	●						



135
882...



140
883...



145
884...



148
HS



154
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158
Licht-
boden



161
Lutera
90



163
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Lutera
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166
852...
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200



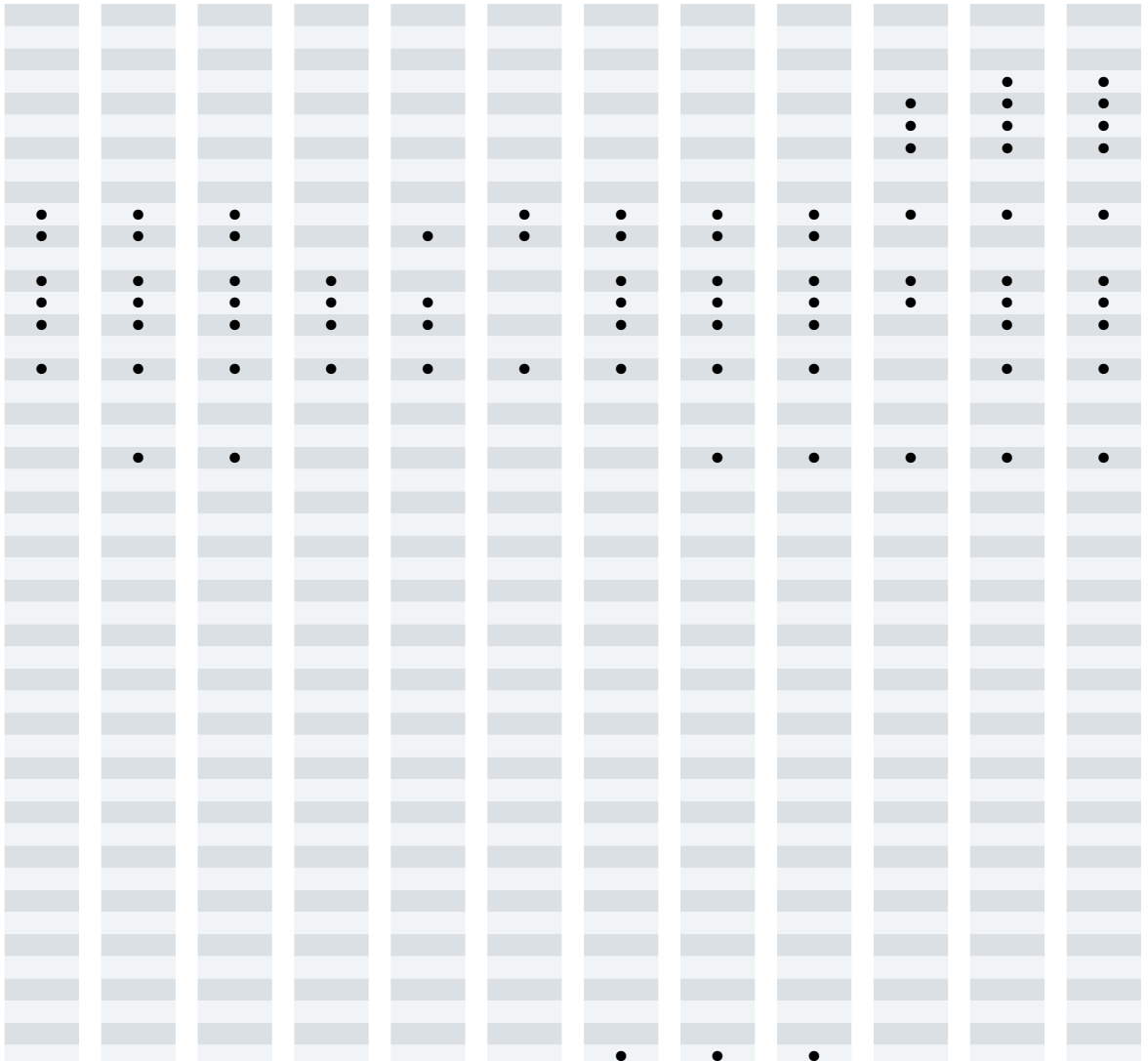
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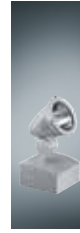
181
Palme



Application recommendations



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863...
Lumena
150



200
861...
Lumena
400



201
861...
Lumena
400



209
862...
Lumena
600

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Roads					
Urban highways					
Traffic roads					
Main roads, residential roads					●
Collection roads			●		●
Residential roads			●		
Low-traffic roads			●		
Pedestrian areas					
Pedestrian zones	●	●		●	
Arcades and passages	●	●		●	
Cycle paths					
Paths in parks and green areas					
Residential facilities					
Stairways and access areas			●		
Light around the building	●	●		●	
Squares					
Traffic nodes, roundabouts			●		●
Car parks			●	●	●
Outdoor workplaces					
Building sites					
Works roads			●		●
Harbour and shipping facilities					●
Warehousing and container areas					●
Power stations					●
Quarries and mining					
Airports					
Apron lighting					
Sports centres					
Stadiums				●	
Tennis courts				●	
Swimming centres, ice rinks					
Golf courses				●	●
Cross country ski courses			●		●
Ski slopes					
High halls					
Airport halls					
High sports halls					
Works halls					
Trade fair halls					
Accent lighting	●	●		●	



210
862...
Lumena
600



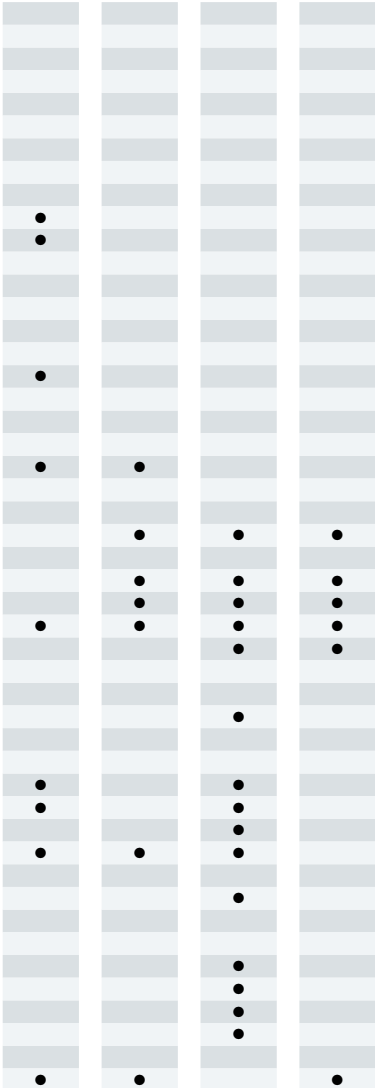
214
Lumena
Star 70



218
866...
Estadia



224
Combial



Decorative LED post-top luminaires



If there's a trendsetter with outdoor lighting then it's definitely the Publisca LED. During the day it blends perfectly into its surroundings thanks to its timelessly elegant design, whether in historic old towns or as part of avant-garde architecture. At night it emits customised and especially energy-efficient light.

Flexibility for planning and design. Optimal lighting:

For perfect light on paths, residential streets, plazas and in urban zones – the light colour, mounting height, luminaire luminous flux, beam characteristics and design line can all be varied. Its modular design enables all photometric parameters to be precisely modified to the application area.

A double plus for storing and logistics: The Publisca LED with its rotatable luminaire head can be stored to save space and is transported simply, efficiently and with environment protection.

Intelligent details. Reduced mounting costs: It's as quick as this: details such as the freely accessible connection module cut installation times, because the luminaire head does not have to be opened for installation.

Applications

Collection roads, residential roads, low-traffic roads, pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks, works roads.

Mounting type

Post-top luminaire for post spigot Ø 76 mm.
Reduction piece of stainless steel for post spigot Ø 60 mm available as accessory.

Optical systems

Optical system with Multi-Lens Technology.
Consists of highly efficient, UV and temperature-resistant lens systems.
Optimised for horizontal positioning of luminaire body.
---AB--- With asymmetrical wide light intensity distribution.
---RB--- With rotationally symmetrical wide light distribution.

LED system

LED module consisting of four LEDs including optical system.
LED degradation L80, LED mortality B10, service life 50,000 operating hours, colour rendering index Ra > 70.
---30--- Light colour warm white (ww), colour temperature 3000 K.
---40--- Light colour neutral white (nw), colour temperature 4000 K.
Publisca---1500 / 2000--- With 3 LED modules.
Publisca---3000--- With 4 LED modules.
Publisca---4000 / 5000--- With 6 LED modules.

Luminaire body

Luminaire body of die-cast aluminium, bracket of die-cast aluminium components. With integral connection module. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant. Pre-assembled luminaire body, connected ready for operation. Inclination angle can be adjusted. Adjustment is lockable in 10° steps between 0° and 90°.
Publisca P1--- With parabolic post mounting element, Windage area $F_w = 0.161 \text{ m}^2$.
Publisca P2--- With trapezoid post mounting element. Windage area $F_w = 0.167 \text{ m}^2$.

Electrical version

Gear tray with all electrical components and LED modules mounted as upper luminaire enclosure. Removable after releasing four fixing screws of V2A. Connection module in post mounting element, freely accessible. With 4-pole terminal to 2.5 mm² and insulated terminal point for earth conductor. With cable strain relief system.
---ET--- With electronic transformer, switchable.
---ETDD--- With electronic transformer, digitally dimmable (DALI).

Supplementary equipment

---LR--- With power reduction of luminaire luminous flux to 50% by switching off one control phase.
---LRA--- With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50% for a time period of 7 hours [-2 h/+5 h], centred on the illuminated time period which is redefined on a daily basis.



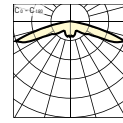
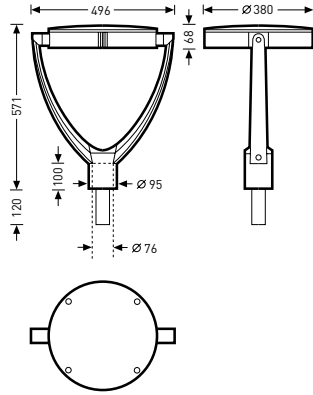
Optics with MLT (Multi Lens Technology) specifically developed for the Publisca enable its use in a wide range of applications and thanks to optimised light control, fulfil various lighting tasks. The computer-optimised, UV and temperature-resistant lens systems with asymmetric wide (AB) or rotationally symmetric wide (RB) light distribution, guarantee high levels of efficiency.

Electrical connection is made significantly simpler with the connection module and aids rapid, simple and low-cost installation. The connection module with safety class II is freely accessible and does not require the luminaire to be opened.

The luminaire blends harmoniously into diverse urban architectural environments with two design variants. The parabolic or trapezoid design of the support arms means that the classic, round or square forms of architecture are transferred to the decorative design of the luminaire family. One of the primary tasks during development of the Publisca was to achieve lighting solutions that not only feature high energy efficiency but also add to the attractiveness of our surroundings. The inclination adjustment of the luminaire body enables packaging volumes to be significantly reduced.



Decorative post-top luminaires with parabolic post mounting element (P1), asymmetric wide distribution (AB)

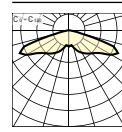
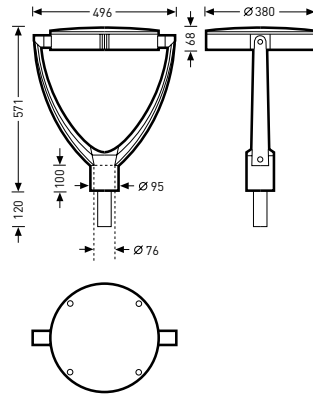


Publisca P1-AB/2000-730 ET 26	
Safety class	II
Protection rating	IP66
Mounting height	3-5 m



Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Publisca P1-AB/2000-730...26	61 337...	...51	...40	LED 1700 lm	30 W	9.0
Publisca P1-AB/3000-730...26	61 339...	...51	...40	LED 2200 lm	39 W	9.0
Publisca P1-AB/4000-730...26	61 341...	...51	...40	LED 3000 lm	59 W	9.1
Publisca P1-AB/1500-740...26	62 355...	...51	...40	LED 1500 lm	20 W	9.0
Publisca P1-AB/2000-740...26	61 338...	...51	...40	LED 2000 lm	29 W	9.0
Publisca P1-AB/3000-740...26	61 340...	...51	...40	LED 2900 lm	39 W	9.0
Publisca P1-AB/5000-740...26	61 342...	...51	...40	LED 4000 lm	59 W	9.1
With power reduction (LR)						
Publisca P1-LR-AB/2000-730...26	61 343...	-	...40	LED 1700 lm	30 W	9.1
Publisca P1-LR-AB/3000-730...26	61 345...	-	...40	LED 2200 lm	39 W	9.1
Publisca P1-LR-AB/4000-730...26	61 347...	-	...40	LED 3000 lm	59 W	9.2
Publisca P1-LR-AB/1500-740...26	62 356...	-	...40	LED 1500 lm	20 W	9.1
Publisca P1-LR-AB/2000-740...26	61 344...	-	...40	LED 2000 lm	29 W	9.1
Publisca P1-LR-AB/3000-740...26	61 346...	-	...40	LED 2900 lm	39 W	9.1
Publisca P1-LR-AB/5000-740...26	61 348...	-	...40	LED 4000 lm	59 W	9.2
With intelligent power reduction (LRA)						
Publisca P1-LRA-AB/2000-730...26	61 355...	-	...40	LED 1700 lm	30 W	9.1
Publisca P1-LRA-AB/3000-730...26	61 357...	-	...40	LED 2200 lm	39 W	9.1
Publisca P1-LRA-AB/4000-730...26	61 359...	-	...40	LED 3000 lm	59 W	9.2
Publisca P1-LRA-AB/1500-740...26	62 357...	-	...40	LED 1500 lm	20 W	9.1
Publisca P1-LRA-AB/2000-740...26	61 356...	-	...40	LED 2000 lm	29 W	9.1
Publisca P1-LRA-AB/3000-740...26	61 358...	-	...40	LED 2900 lm	39 W	9.1
Publisca P1-LRA-AB/5000-740...26	61 360...	-	...40	LED 4000 lm	59 W	9.2

Decorative post-top luminaires with parabolic post mounting element (P1), rotationally symmetric wide distribution (RB)



Publisca P1-RB/2000-730 ET 26

Safety class II

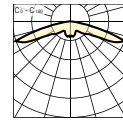
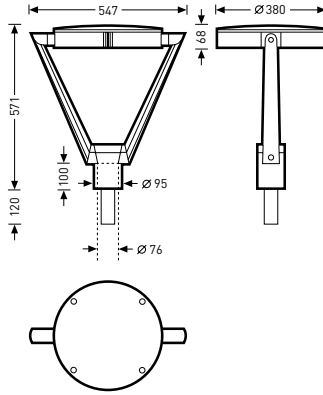
Protection rating IP66

Mounting height 3-5 m



Reference	TOC	---ETDD ---51	---ET ---40	Lamps / Luminaire luminous flux	Connected load	≈kg
Publisca P1-RB/2000-730...26	61 367...	---51	---40	LED 2000 lm	29 W	9.0
Publisca P1-RB/3000-730...26	61 369...	---51	---40	LED 2600 lm	39 W	9.0
Publisca P1-RB/4000-730...26	61 371...	---51	---40	LED 3700 lm	59 W	9.1
Publisca P1-RB/2000-740...26	61 368...	---51	---40	LED 2000 lm	25 W	9.0
Publisca P1-RB/3000-740...26	61 370...	---51	---40	LED 3000 lm	39 W	9.0
Publisca P1-RB/5000-740...26	61 372...	---51	---40	LED 4400 lm	59 W	9.1
With power reduction (LR)						
Publisca P1-LR-RB/2000-730...26	61 349...	-	---40	LED 2000 lm	29 W	9.1
Publisca P1-LR-RB/3000-730...26	61 351...	-	---40	LED 2600 lm	39 W	9.1
Publisca P1-LR-RB/4000-730...26	61 353...	-	---40	LED 3700 lm	59 W	9.2
Publisca P1-LR-RB/2000-740...26	61 350...	-	---40	LED 2000 lm	25 W	9.1
Publisca P1-LR-RB/3000-740...26	61 352...	-	---40	LED 3000 lm	39 W	9.1
Publisca P1-LR-RB/5000-740...26	61 354...	-	---40	LED 4400 lm	59 W	9.2
With intelligent power reduction (LRA)						
Publisca P1-LRA-RB/2000-730...26	61 361...	-	---40	LED 2000 lm	29 W	9.1
Publisca P1-LRA-RB/3000-730...26	61 363...	-	---40	LED 2600 lm	39 W	9.1
Publisca P1-LRA-RB/4000-730...26	61 365...	-	---40	LED 3700 lm	59 W	9.2
Publisca P1-LRA-RB/2000-740...26	61 362...	-	---40	LED 2000 lm	25 W	9.1
Publisca P1-LRA-RB/3000-740...26	61 364...	-	---40	LED 3000 lm	39 W	9.1
Publisca P1-LRA-RB/5000-740...26	61 366...	-	---40	LED 4400 lm	59 W	9.2

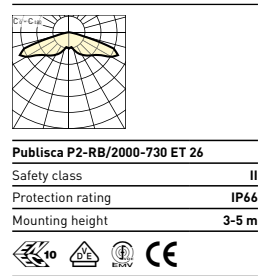
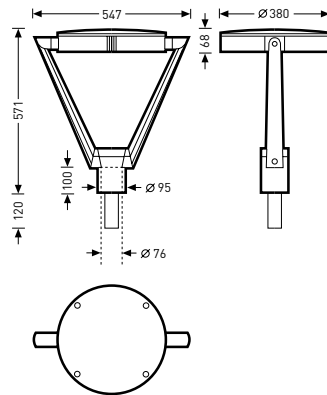
Decorative post-top luminaires with trapezoid post mounting element (P2), asymmetric wide distribution (AB)



Publisca P2-AB/2000-730 ET 26	
Safety class	II
Protection rating	IP66
Mounting height	3-5 m

Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Publisca P2-AB/2000-730...26	61 373...	...51	...40	LED 1700 lm	30 W	9.6
Publisca P2-AB/3000-730...26	61 375...	...51	...40	LED 2200 lm	39 W	9.6
Publisca P2-AB/4000-730...26	61 377...	...51	...40	LED 3000 lm	59 W	9.7
Publisca P2-AB/1500-740...26	62 358...	...51	...40	LED 1500 lm	20 W	9.6
Publisca P2-AB/2000-740...26	61 374...	...51	...40	LED 2000 lm	29 W	9.6
Publisca P2-AB/3000-740...26	61 376...	...51	...40	LED 2900 lm	39 W	9.6
Publisca P2-AB/5000-740...26	61 378...	...51	...40	LED 4000 lm	59 W	9.7
With power reduction (LR)						
Publisca P2-LR-AB/2000-730...26	61 379...	-	...40	LED 1700 lm	30 W	9.7
Publisca P2-LR-AB/3000-730...26	61 381...	-	...40	LED 2200 lm	39 W	9.7
Publisca P2-LR-AB/4000-730...26	61 383...	-	...40	LED 3000 lm	59 W	9.8
Publisca P2-LR-AB/1500-740...26	62 359...	-	...40	LED 1500 lm	20 W	9.7
Publisca P2-LR-AB/2000-740...26	61 380...	-	...40	LED 2000 lm	29 W	9.7
Publisca P2-LR-AB/3000-740...26	61 382...	-	...40	LED 2900 lm	39 W	9.7
Publisca P2-LR-AB/5000-740...26	61 384...	-	...40	LED 4000 lm	59 W	9.8
With intelligent power reduction (LRA)						
Publisca P2-LRA-AB/2000-730...26	61 391...	-	...40	LED 1700 lm	30 W	9.7
Publisca P2-LRA-AB/3000-730...26	61 393...	-	...40	LED 2200 lm	39 W	9.7
Publisca P2-LRA-AB/4000-730...26	61 395...	-	...40	LED 3000 lm	59 W	9.8
Publisca P2-LRA-AB/1500-740...26	62 360...	-	...40	LED 1500 lm	20 W	9.7
Publisca P2-LRA-AB/2000-740...26	61 392...	-	...40	LED 2000 lm	29 W	9.7
Publisca P2-LRA-AB/3000-740...26	61 394...	-	...40	LED 2900 lm	39 W	9.7
Publisca P2-LRA-AB/5000-740...26	61 396...	-	...40	LED 4000 lm	59 W	9.8

Decorative post-top luminaires with trapezoid post mounting element (P2), rotationally symmetric wide distribution (RB)



Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Publisca P2-RB/2000-730...26	61 403...	...51	...40	LED 2000 lm	29 W	9.6
Publisca P2-RB/3000-730...26	61 405...	...51	...40	LED 2600 lm	39 W	9.6
Publisca P2-RB/4000-730...26	61 407...	...51	...40	LED 3700 lm	59 W	9.7
Publisca P2-RB/2000-740...26	61 404...	...51	...40	LED 2000 lm	25 W	9.6
Publisca P2-RB/3000-740...26	61 406...	...51	...40	LED 3000 lm	39 W	9.6
Publisca P2-RB/5000-740...26	61 408...	...51	...40	LED 4400 lm	59 W	9.7
With power reduction (LR)						
Publisca P2-LR-RB/2000-730...26	61 385...	-	...40	LED 2000 lm	29 W	9.7
Publisca P2-LR-RB/3000-730...26	61 387...	-	...40	LED 2600 lm	39 W	9.7
Publisca P2-LR-RB/4000-730...26	61 389...	-	...40	LED 3700 lm	59 W	9.8
Publisca P2-LR-RB/2000-740...26	61 386...	-	...40	LED 2000 lm	25 W	9.7
Publisca P2-LR-RB/3000-740...26	61 388...	-	...40	LED 3000 lm	39 W	9.7
Publisca P2-LR-RB/5000-740...26	61 390...	-	...40	LED 4400 lm	59 W	9.8
With intelligent power reduction (LRA)						
Publisca P2-LRA-RB/2000-730...26	61 397...	-	...40	LED 2000 lm	29 W	9.7
Publisca P2-LRA-RB/3000-730...26	61 399...	-	...40	LED 2600 lm	39 W	9.7
Publisca P2-LRA-RB/4000-730...26	61 401...	-	...40	LED 3700 lm	59 W	9.8
Publisca P2-LRA-RB/2000-740...26	61 398...	-	...40	LED 2000 lm	25 W	9.7
Publisca P2-LRA-RB/3000-740...26	61 400...	-	...40	LED 3000 lm	39 W	9.7
Publisca P2-LRA-RB/5000-740...26	61 402...	-	...40	LED 4400 lm	59 W	9.8

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

Elliptical LED post-top luminaires



Illuminating the road area with high quality, efficiency and at the same time with distinctive style becomes child's play with Convia. Its LED technology is not only highly energy-efficient, durable and environmentally-friendly, it also makes the small, flat construction of the Convia possible, which blends in effortlessly with all types of urban landscape. The optical system, with computer-optimised reflectors, also guarantees an individual light distribution for safety and optimum visual comfort.

Elegant: The discreet yet open form communicates a high design quality for nearly all surroundings.

Safe light: Excellent illumination along the complete road length due to variable arrangements, reduces the risk of accidents.

Energy-saving: Potential savings via power reduction for each luminaire.

Simple and quick: Intelligently developed luminaire construction, luminaire fixing with a single fastening point.

Child's play: Easiest possible electrical connection via connection module with tool-free removal. Opening the luminaire is not necessary.

Long-life: Maximum manufacturing quality and technology combined with die-cast aluminium ensures a permanent sense of value.

Applications

...**AB**... Collection roads, residential roads, low-traffic roads, pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks, works roads.

...**R**... For cycle paths.

Mounting type

Post-top luminaire for post spigot \varnothing 76 mm.

Reduction piece of stainless steel for post spigot \varnothing 60 mm available as accessory.

...**M**... Luminaire for mounting with twin bracket ZM2 or via wall mounting ZW.

Optical systems

Highly specular vapour-plated plastic reflectors each combined with 2 LEDs.

...**AB**... With asymmetrical wide light intensity distribution.

...**R**... With extremely wide luminous intensity distribution for the lighting of paths, especially cycle paths.

LED system

LED system with 10 integrated modules.

LED degradation L80, LED mortality B10, service life

70,000 operating hours, colour rendering index Ra > 70.

Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Of die-cast aluminium, highly weather resistant, powder-coated.

Cover of flat, heat-treated, non-laminated safety glass, partly frosted.

...**03**... Colour metallic grey, similar to RAL 9006.

...**26**... Colour anthracite, similar to DB 703.

Windage area $F_w = 0.173 \text{ m}^2$.

...**M**... Windage area $F_w = 0.34 \text{ m}^2$.

Electrical version

Connection module with post-top luminaires can be removed without tools. With 4-pole terminal to 2.5 mm² and insulated terminal point for earth conductor. With cable strain relief system.

...**ET**... With electronic transformer, switchable.

...**ETDD**... With electronic transformer, digitally dimmable (DALI).

Supplementary equipment

...**LR**... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

...**LRA**... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50% for a time period of 7 hours [-2 h/+5 h], centred on the illuminated time period which is redefined on a daily basis.



reddot design award

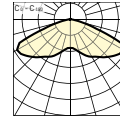
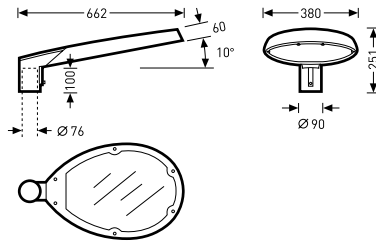
A purist design with a discreet, flat construction form. The outstanding design has been awarded the reddot and iF product design awards.

Optical system consists of ten metalised plastic reflectors, semi-specular. With purist, computer-optimised reflector contour for application-oriented, asymmetrical wide luminous intensity distribution.

The design flexibility of the Convia series allows project solutions to be generated. In this way, multi-arrangements for example have been implemented that are not only eye-catchers but also completely fulfil the lighting tasks required. Please contact us about your project solution.



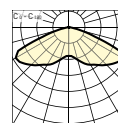
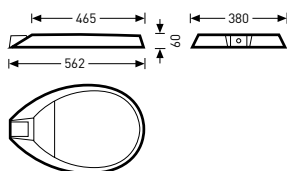
Post-top luminaires with flat cover, asymmetric wide distribution (AB)



Convia AB/2000-740 ET 26	
Safety class	II
Protection rating	IP66
Mounting height	3-6 m

Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Anthracite						
Convia AB/2000-740...26	62 494...	...51	...40	LED 1800 lm	23 W	6.8
Convia AB/3000-740...26	62 495...	...51	...40	LED 3300 lm	45 W	6.8
Silver-grey						
Convia LR-AB/2000-740...26	62 498...	-	...40	LED 1800 lm	24 W	6.9
Convia LR-AB/3000-740...26	62 499...	-	...40	LED 3300 lm	46 W	6.9
Convia LRA-AB/2000-740...26	62 502...	-	...40	LED 1800 lm	24 W	7.0
Convia LRA-AB/3000-740...26	62 503...	-	...40	LED 3300 lm	46 W	7.0
Anthracite						
Convia AB/2000-740...03	62 496...	...51	...40	LED 1800 lm	23 W	6.8
Convia AB/3000-740...03	62 497...	...51	...40	LED 3300 lm	45 W	6.8
Silver-grey						
Convia LR-AB/2000-740...03	62 500...	-	...40	LED 1800 lm	24 W	6.9
Convia LR-AB/3000-740...03	62 501...	-	...40	LED 3300 lm	46 W	6.9
Anthracite						
Convia LRA-AB/2000-740...03	62 504...	-	...40	LED 1800 lm	24 W	7.0
Convia LRA-AB/3000-740...03	62 505...	-	...40	LED 3300 lm	46 W	7.0

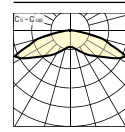
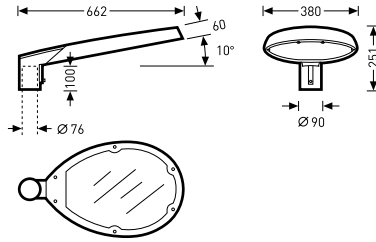
Post-top luminaires with flat cover for mounting with accessories, asymmetric wide distribution (AB)



Convia M-AB/2000-740 ET 26	
Safety class	II
Protection rating	IP66
Mounting height	3-6 m

Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Anthracite						
Convia M-AB/2000-740...26	62 512...	...51	...40	LED 1800 lm	23 W	6.3
Convia M-AB/3000-740...26	62 513...	...51	...40	LED 3300 lm	45 W	6.3
Convia M-LR-AB/2000-740...26	62 516...	-	...40	LED 1800 lm	24 W	6.4
Convia M-LR-AB/3000-740...26	62 517...	-	...40	LED 3300 lm	46 W	6.4
Convia M-LRA-AB/2000-740...26	62 520...	-	...40	LED 1800 lm	24 W	6.5
Convia M-LRA-AB/3000-740...26	62 521...	-	...40	LED 3300 lm	46 W	6.5
Silver-grey						
Convia M-AB/2000-740...03	62 514...	...51	...40	LED 1800 lm	23 W	6.3
Convia M-AB/3000-740...03	62 515...	...51	...40	LED 3300 lm	45 W	6.3
Convia M-LR-AB/2000-740...03	62 518...	-	...40	LED 1800 lm	24 W	6.4
Convia M-LR-AB/3000-740...03	62 519...	-	...40	LED 3300 lm	46 W	6.4
Convia M-LRA-AB/2000-740...03	62 522...	-	...40	LED 1800 lm	24 W	6.5
Convia M-LRA-AB/3000-740...03	62 523...	-	...40	LED 3300 lm	46 W	6.5

Post-top luminaires with flat cover, extremely wide distribution (R)



Convia R/2000-740 ET 26	
Safety class	II
Protection rating	IP66
Mounting height	3-6 m

Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Anthracite						
Convia R/2000-740...26	62 506...	...51	...40	LED 1650 lm	23 W	6.8
Convia LR-R/2000-740...26	62 508...	-	...40	LED 1650 lm	24 W	6.9
Convia LRA-R/2000-740...26	62 510...	-	...40	LED 1650 lm	24 W	7.0
Silver-grey						
Convia R/2000-740...03	62 507...	...51	...40	LED 1650 lm	23 W	6.8
Convia LR-R/2000-740...03	62 509...	-	...40	LED 1650 lm	24 W	6.9
Convia LRA-R/2000-740...03	62 511...	-	...40	LED 1650 lm	24 W	7.0

Post mounting elements



Reference	TOC	Accessory description	≈kg
Convia ZM2/76-II 03	60 691 00	Post mounting element for Convia M..., double-headed, for post spigot Ø 76 mm, white aluminium, similar to DB 9006	1.8
Convia ZM2/76-II 26	60 692 00	Post mounting element for Convia M..., double-headed, for post spigot Ø 76 mm, anthracite, similar to DB 703	1.8

Wall mountings

Reference	TOC	Accessory description	≈kg
Convia ZW 03	60 693 00	Wall mounting for Convia M..., white aluminium, similar to DB 9006	0.7
Convia ZW 26	60 694 00	Wall mounting for Convia M..., anthracite, similar to DB 703	0.7

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

Decorative LED post-top luminaires



Whether for public green spaces, squares or for pedestrian zones, the Elle impresses with flexibility, an adjustable tilt angle and low energy consumption. Its balanced and homogeneous design also impresses the experts.

Stylish: The balanced design of the Elle ensures a high level of acceptance from residents.

Safe: Uniform lighting of town squares, parking areas and pedestrian zones increases safety.

Brilliant: Symmetrically arranged reflectors with integral LED modules create a brilliant appearance.

Flexible: The adjustable inclination angle of the luminaire housing increases design flexibility.

Robust: The use of high-grade materials enables a long service life in rough surroundings.

Applications

Collection roads, residential roads, low-traffic roads, pedestrian zones, paths in parks and green areas, residential facilities, stairs, access areas, car parks.

Mounting type

Post-top luminaire for post spigot $\varnothing 76$ mm.

Optical systems

Highly specular vapour-plated plastic reflectors each combined with 2 LEDs.

With asymmetrical wide light intensity distribution.

LED system

LED degradation L80, LED mortality B10, service life 50,000 operating hours, colour rendering index $R_a > 70$, light colour neutral white (nw), colour temperature 4000 K.

Elle III... LED system consists of 24 high power LEDs.

Elle III-M2... LED system consists of 2 x 24 high power LEDs.

Elle IV... LED system consists of 48 high power LEDs.

Elle IV-M2... LED system consists of 2 x 48 high power LEDs.

Luminaire body

Luminaire housing of extruded aluminium profile and die-cast aluminium components.

Inclination angle of luminaire housing adjustable to 0°, 10°, 20°, 30° or 90°.

Cover of flat, heat-treated, non-laminated safety glass, partly frosted.

Colour of luminaire housing: anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant.

Elle III... Windage area $F_w = 0.06$ m².

Elle III-M2... Windage area $F_w = 0.1$ m².

Elle IV... Windage area $F_w = 0.075$ m².

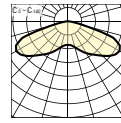
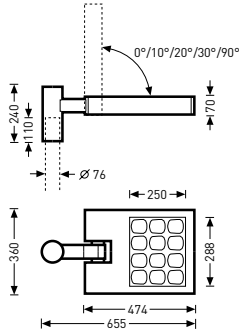
Elle IV-M2... Windage area $F_w = 0.13$ m².

Electrical version

Electrical connection to 3-pole connection terminal to 2.5 mm².

...**ET**... With electronic transformer, switchable.

Decorative LED post-top luminaires, construction size III

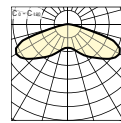
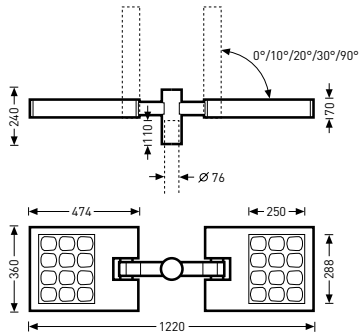


Elle III AB/LED2000nw ET 26	
Safety class	II
Protection rating	IP65
Mounting height	4-6 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Elle III AB/LED2000nw...26	61 006...	...40	LED 2000 lm	30 W	9.9

Decorative LED post-top luminaires with twin configuration (M2), construction size III

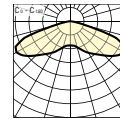
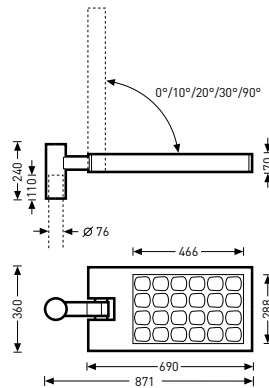


Elle III-M2 AB LED2000nw ET 26	
Safety class	II
Protection rating	IP65
Mounting height	4-6 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Elle III-M2 AB LED2000nw...26	61 007...	...40	LED 4000 lm	60 W	18.7

Decorative LED post-top luminaires, construction size IV



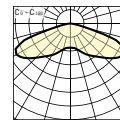
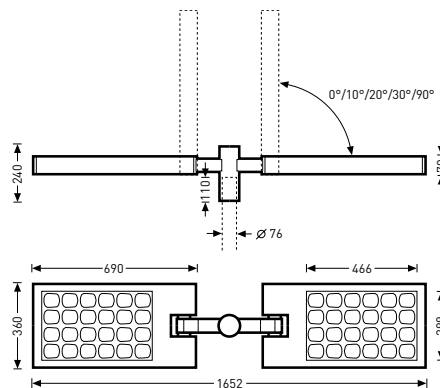
Elle IV AB/LED3500nw ET 26

Safety class	II
Protection rating	IP65
Mounting height	4-6 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Elle IV AB/LED3500nw...26	61 008...	...40	LED 3800 lm	58 W	14

Decorative LED post-top luminaires with twin configuration (M2), construction size IV



Elle IV-M2 AB/LED3500nw ET 26

Safety class	II
Protection rating	IP65
Mounting height	4-6 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Elle IV-M2 AB/LED3500nw...26	61 009...	...40	LED 7600 lm	116 W	26.7

Decorative post-top luminaires



Thanks to the flexibility of the 98 series, creating a customised luminaire becomes even simpler. Six different versions are available, all with the same aim: to bring efficiency and elegance into towns and cities. To achieve this, the 98... series unites a proven, classic design with state-of-the-art LED technology.

Simple and timeless: Unadorned basic geometric forms with self-confident, visible functionality.

Safe light: Homogeneous, glare-free lighting of the complete road, guaranteeing high levels of safety.

Photometrically variable: Variants for the systematic illumination of squares and for targeted lighting of roads.

Efficient: Rapid, simple installation, a long service life and longer maintenance cycles with minimal maintenance effort.

Large selection: The luminaire range has diverse selection possibilities with a uniform design language.

Simple handling: The electrical block as the functional unit contains the electrical components, LED module and primary optic.

Practical: This can be inserted and replaced without tools.

Applications

Collection roads, residential roads, low-traffic roads, pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks.

Mounting type

For post-top mounting.

For post spigot Ø 76 mm.

Can also be used for twin or triple configurations with accessories. Wall mounting possible with accessories. Reduction piece of die-cast aluminium for post spigot Ø 60 mm available as accessory.

Optical systems

Optical system of highly specular anodised aluminium.

...**LO**... Optical system with lamella optics.

With rotationally symmetrical wide light distribution.

...**ZO**... Optical system with cylinder optic.

With rotationally symmetrical wide light distribution.

...**IS**... Optical system with secondary optic.

With rotationally symmetrical wide light distribution.

...**LA**... Optical system with lamella optics.

With asymmetrical wide light intensity distribution.

...**SA**... Optical system with specular optic.

With asymmetrical wide light intensity distribution.

...**IA**... Optical system with secondary optic.

With asymmetrical wide light intensity distribution.

LED system

LED degradation L80, LED mortality B10, service life

50,000 operating hours, colour rendering index Ra > 80.

Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Luminaire body of die-cast aluminium, luminaire top of corrosion-resistant aluminium, powder-coated highly weather resistant.

Colour of outer luminaire body and luminaire top deep black, similar to RAL 9005. Luminaire top white powder-coated on inside.

Cover of highly impact-resistant, transparent PMMA.

Luminaire cover in lock-in service position can be pushed upwards.

Relamping and maintenance after opening e.g. via release bracket to be ordered separately.

Electrical version

Electrical connection via plug connection in connection

module. With 4-pole terminal to 2.5 mm² and insulated terminal point for earth conductor. Electrical block contains all electric components, can be replaced without tools.

...**K**... With inductive ballast, parallel-compensated.

...**E**... With electronic ballast.

...**ET**... With electronic transformer, switchable.

Supplementary equipment

...**LR**... With power reduction of luminaire luminous flux to 50% by switching off one control phase.



In addition to the specified indirect distribution LED versions with Fortimo DLM modules, it is also possible to equip the 98 series with direct distribution LED systems with MLT (Multi-Lens Technology). Highly efficient, UV and temperature-resistant lens systems in configurations of four are implemented and emit asymmetric wide light distribution. Please contact us about your project solution.

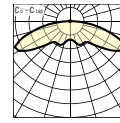
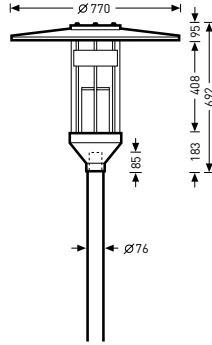
The catches of the 98 series prevent unauthorised access. The release bracket, available as an accessory, significantly simplifies opening the luminaire cover. The time-consuming releasing of screws or screw rings is a thing of the past.

The service locking position significantly simplifies relamping: unlock luminaire, raise the luminaire cover to the lock-in position and replace lamps. Removing and putting aside the luminaire cover is no longer necessary.

Rapid luminaire installation and trouble-free maintenance are decisive when it comes to minimising costs for personnel and cherry picker times. Functional inspection in the workshop also contributes to further cost savings. Electrical connection is significantly simplified via the connection module with plug connection and cable strain relief system.



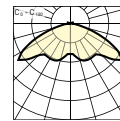
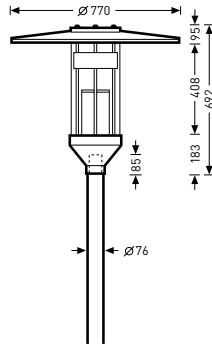
Lanterns with asymmetric wide distribution secondary optic (IA)



98111A/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
98111A/LED2000nw...	59 471...	...40	-	LED 1100 lm	23 W	9.1
98111A/LED3000nw...	60 816...	...40	-	LED 1700 lm	35 W	9.1
98111A/35HIT-CE...	59 985...	-	...04	1 x HIT-CE 35		8.5
98111A/45HIT-OD...	59 987...	-	...04	1 x HIT-CE/OD 45		9.3
98111A/60HIT-OD...	59 988...	-	...04	1 x HIT-CE/OD 60		9.3
98111A/70HIT-CE...	59 986...	-	...04	1 x HIT-CE 70		8.5
With power reduction (LR)						
98111A-LR/LED3000nw...	60 826...	...40	-	LED 1700 lm	36.5 W	9.3

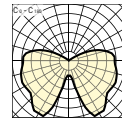
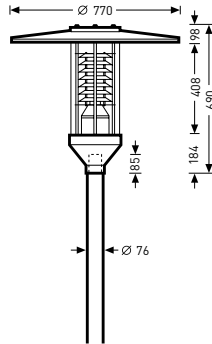
Lanterns with rotationally symmetric wide distribution secondary optics (IS)



98111S/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
98111S/LED2000nw...	59 470...	...40	-	LED 1100 lm	23 W	9.1
98111S/LED3000nw...	60 815...	...40	-	LED 1900 lm	35 W	9.1
98111S/35HIT-CE...	59 989...	-	...04	1 x HIT-CE 35		8.5
98111S/45HIT-OD...	59 991...	-	...04	1 x HIT-CE/OD 45		9.3
98111S/60HIT-OD...	59 992...	-	...04	1 x HIT-CE/OD 60		9.3
98111S/70HIT-CE...	59 990...	-	...04	1 x HIT-CE 70		8.5
With power reduction (LR)						
98111S-LR/LED3000nw...	60 825...	...40	-	LED 1900 lm	36.5 W	9.3

Lanterns with asymmetric lamella optic (LA)



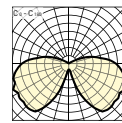
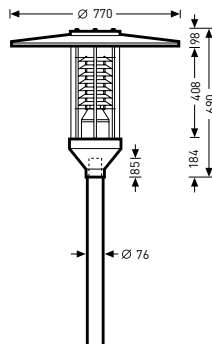
9812LA/TCL18-24 E

Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
9812LA/TCL18-24...	49 408...	...04	2 x TC-L 18/24	8.3

Lanterns with lamella optic (LO)



9811LO/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9811LO/100HSE...	13 782...	-	...02	1 x HSE 100	10.0
9811LO/50-70HSE-E... ¹⁾²⁾	13 784...	-	...02	1 x HSE-E 50/70	9.9
9811LO/TCT26/32/42...	13 787...	...04	-	1 x TC-T 26/32/42	8.2
9812LO/TCL18-24...	13 816...	...04	-	2 x TC-L 18/24	9.7

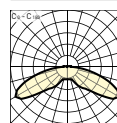
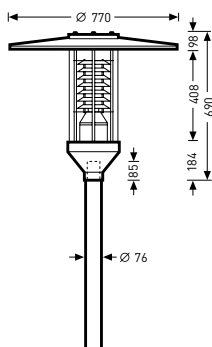
With power reduction (LR)

9811LO-LR/100HSE...	13 788...	-	...02	1 x HSE 100	10.8
9811LO-LR/70HSE-E... ¹⁾	13 791...	-	...02	1 x HSE-E 70	10.0

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Lanterns with asymmetric specular optic (SA)



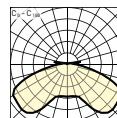
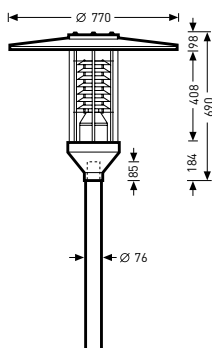
9811SA/100HSE K	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9811SA/100HSE...	13 793...	-	...02	1 x HSE 100	10.0
9811SA/50-70HSE-E... ¹⁾²⁾	13 795...	-	...02	1 x HSE-E 50/70	9.9
9811SA/TCT26/32/42...	13 798...	...04	-	1 x TC-T 26/32/42	8.2
With power reduction (LR)					
9811SA-LR/100HSE...	13 799...	-	...02	1 x HSE 100	10.8
9811SA-LR/70HSE-E... ¹⁾	13 802...	-	...02	1 x HSE-E 70	10.0

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Lanterns with cylinder optic (ZO)



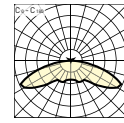
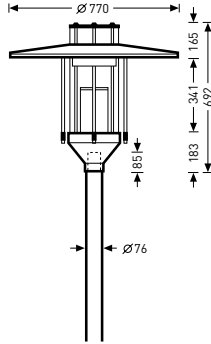
9811ZO/100HSE K	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9811ZO/100HSE...	13 804...	-	...02	1 x HSE 100	10.0
9811ZO/50-70HSE-E... ¹⁾²⁾	13 806...	-	...02	1 x HSE-E 50/70	9.9
9811ZO/TCT26/32/42...	13 810...	...04	-	1 x TC-T 26/32/42	8.2
With power reduction (LR)					
9811ZO-LR/100HSE...	13 811...	-	...02	1 x HSE 100	10.8
9811ZO-LR/70HSE-E... ¹⁾	13 814...	-	...02	1 x HSE-E 70	10.0

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

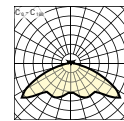
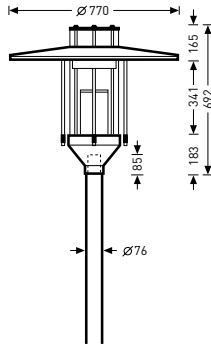
Indirect luminaires with asymmetric wide distribution secondary optics (IA)



9821IA/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
9821IA/LED2000nw...	59 473...	...40	-	LED 1100 lm	23 W	10.6
9821IA/LED3000nw...	60 818...	...40	-	LED 1700 lm	35 W	10.6
9821IA/35HIT-CE...	59 993...	-	...04	1 x HIT-CE 35		9.0
9821IA/45HIT-OD...	59 995...	-	...04	1 x HIT-CE/OD 45		9.8
9821IA/60HIT-OD...	59 996...	-	...04	1 x HIT-CE/OD 60		9.8
9821IA/70HIT-CE...	59 994...	-	...04	1 x HIT-CE 70		9.0
With power reduction (LR)						
9821IA-LR/LED3000nw...	60 828...	...40	-	LED 1700 lm	36.5 W	10.8

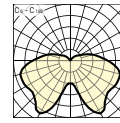
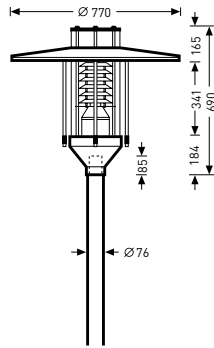
Indirect luminaires with rotationally symmetric wide distribution secondary optics (IS)



9821IS/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
9821IS/LED2000nw...	59 472...	...40	-	LED 1100 lm	23 W	10.6
9821IS/LED3000nw...	60 817...	...40	-	LED 1900 lm	35 W	10.6
9821IS/35HIT-CE...	59 997...	-	...04	1 x HIT-CE 35		9.0
9821IS/45HIT-OD...	59 999...	-	...04	1 x HIT-CE/OD 45		9.8
9821IS/60HIT-OD...	60 000...	-	...04	1 x HIT-CE/OD 60		9.8
9821IS/70HIT-CE...	59 998...	-	...04	1 x HIT-CE 70		9.0
With power reduction (LR)						
9821IS-LR/LED3000nw...	60 827...	...40	-	LED 1900 lm	36.5 W	10.8

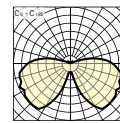
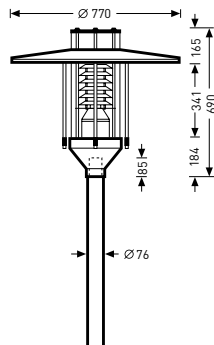
Indirect luminaires with asymmetric lamella optic (LA)



9822LA/TCL18-24 E	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	=kg
9822LA/TCL18-24...	45 058...	...04	2 x TC-L 18/24	9.8

Indirect luminaires with lamella optic (LO)



9821LO/100HSE K	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	=kg
9821LO/100HSE...	13 822...	-	...02	1 x HSE 100	11.5
9821LO/50-70HSE-E... ¹⁾²⁾	13 824...	-	...02	1 x HSE-E 50/70	11.4
9821LO/TCT26/32/42...	13 827...	...04	-	1 x TC-T 26/32/42	9.8
9822LO/TCL18-24...	13 857...	...04	-	2 x TC-L 18/24	9.8

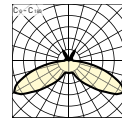
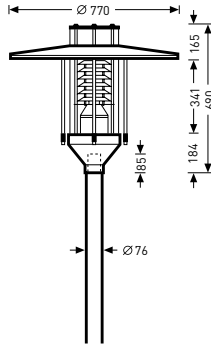
With power reduction (LR)

9821LO-LR/100HSE...	13 828...	-	...02	1 x HSE 100	12.3
9821LO-LR/70HSE-E... ¹⁾	13 831...	-	...02	1 x HSE-E 70	11.5

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Indirect luminaires with asymmetric specular optic (SA)



9821SA/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m

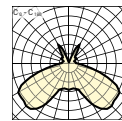
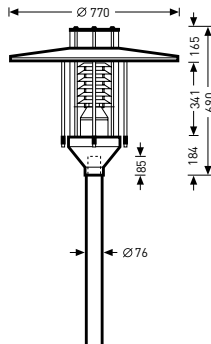


Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9821SA/100HSE...	13 833...	-	...02	1 x HSE 100	11.5
9821SA/50-70HSE-E... ¹⁾²⁾	13 835...	-	...02	1 x HSE-E 50/70	11.4
9821SA/TCT26/32/42...	13 838...	...04	-	1 x TC-T 26/32/42	9.8
With power reduction (LR)					
9821SA-LR/100HSE...	13 839...	-	...02	1 x HSE 100	12.3
9821SA-LR/70HSE-E... ¹⁾	13 842...	-	...02	1 x HSE-E 70	11.5

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Indirect luminaires with cylinder optic (ZO)



9821ZO/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m

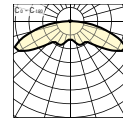
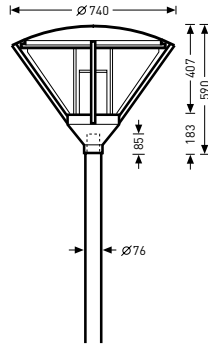


Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9821ZO/100HSE...	13 844...	-	...02	1 x HSE 100	11.5
9821ZO/50-70HSE-E... ¹⁾²⁾	13 846...	-	...02	1 x HSE-E 50/70	11.4
9821ZO/TCT26/32/42...	13 851...	...04	-	1 x TC-T 26/32/42	9.8
With power reduction (LR)					
9821ZO-LR/100HSE...	13 852...	-	...02	1 x HSE 100	12.3
9821ZO-LR/70HSE-E... ¹⁾	13 855...	-	...02	1 x HSE-E 70	11.5

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

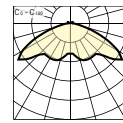
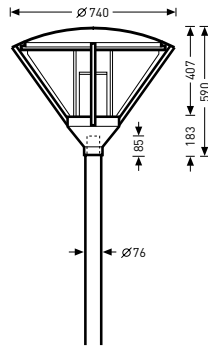
Conical lanterns with asymmetric wide distribution secondary optics (IA)



98311A/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
98311A/LED2000nw...	59 475...	...40	-	LED 1100 lm	23 W	8.9
98311A/LED3000nw...	60 820...	...40	-	LED 1700 lm	35 W	8.9
98311A/35HIT-CE...	60 001...	-	...04	1 x HIT-CE 35		7.3
98311A/70HIT-CE...	60 002...	-	...04	1 x HIT-CE 70		7.3
With power reduction (LR)						
98311A-LR/LED3000nw...	60 830...	...40	-	LED 1700 lm	36.5 W	9.1

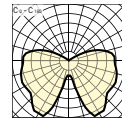
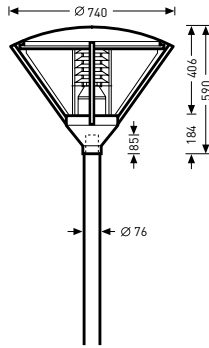
Conical lanterns with rotationally symmetric wide distribution secondary optic (IS)



98311S/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
98311S/LED2000nw...	59 474...	...40	-	LED 1100 lm	23 W	8.9
98311S/LED3000nw...	60 819...	...40	-	LED 1900 lm	35 W	8.9
98311S/35HIT-CE...	60 005...	-	...04	1 x HIT-CE 35		7.3
98311S/70HIT-CE...	60 006...	-	...04	1 x HIT-CE 70		7.3
With power reduction (LR)						
98311S-LR/LED3000nw...	60 829...	...40	-	LED 1900 lm	36.5 W	9.1

Conical lanterns with asymmetric lamella optic (LA)



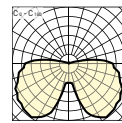
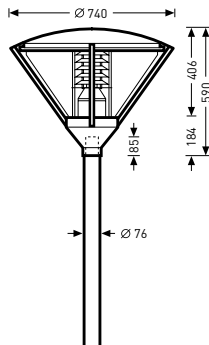
9832LA/TCL18-24 E

Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
9832LA/TCL18-24...	49 409...	...04	2 x TC-L 18/24	8.1

Conical lanterns with lamella optic (LO)



9831LO/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9831LO/100HSE...	13 865...	-	...02	1 x HSE 100	9.8
9831LO/50-70HSE-E... ¹⁾²⁾	13 867...	-	...02	1 x HSE-E 50/70	9.7
9831LO/TCT26/32/42...	13 870...	...04	-	1 x TC-T 26/32/42	8.0
9832LO/TCL18-24...	13 913...	...04	-	2 x TC-L 18/24	8.1

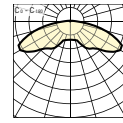
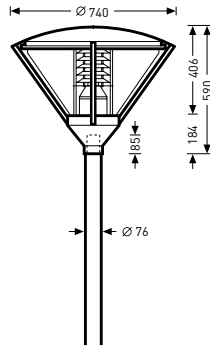
With power reduction (LR)

9831LO-LR/100HSE...	13 871...	-	...02	1 x HSE 100	10.6
9831LO-LR/70HSE-E... ¹⁾	13 874...	-	...02	1 x HSE-E 70	9.8

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Conical lanterns with asymmetric specular optic (SA)



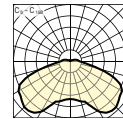
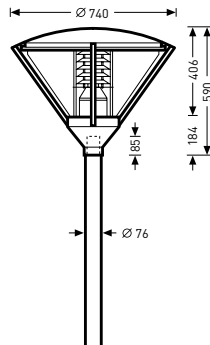
9831SA/100HSE K	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9831SA/100HSE...	13 888...	-	...02	1 x HSE 100	9.8
9831SA/50-70HSE-E...¹⁾²⁾	13 890...	-	...02	1 x HSE-E 50/70	9.7
9831SA/TCT26/32/42...	13 893...	...04	-	1 x TC-T 26/32/42	8.0
With power reduction (LR)					
9831SA-LR/100HSE...	13 894...	-	...02	1 x HSE 100	10.6
9831SA-LR/70HSE-E...¹⁾	13 897...	-	...02	1 x HSE-E 70	9.8

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Conical lanterns with cylinder optic (ZO)



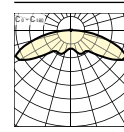
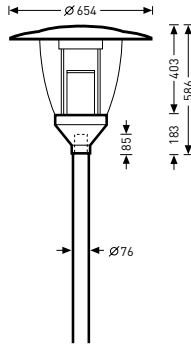
9831ZO/100HSE K	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9831ZO/100HSE...	13 899...	-	...02	1 x HSE 100	9.8
9831ZO/50-70HSE-E...¹⁾²⁾	13 901...	-	...02	1 x HSE-E 50/70	9.7
9831ZO/TCT26/32/42...	13 906...	...04	-	1 x TC-T 26/32/42	8.0
With power reduction (LR)					
9831ZO-LR/100HSE...	13 907...	-	...02	1 x HSE 100	10.6
9831ZO-LR/70HSE-E...¹⁾	13 910...	-	...02	1 x HSE-E 70	9.8

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

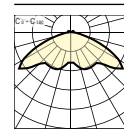
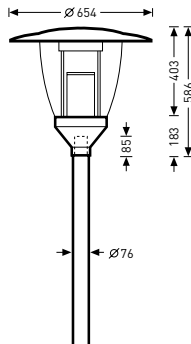
Classic luminaires with asymmetric wide distribution secondary optics (IA)



9851IA/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
9851IA/LED2000nw...	59 477...	...40	-	LED 1100 lm	23 W	7.2
9851IA/LED3000nw...	60 822...	...40	-	LED 1700 lm	35 W	7.2
9851IA/35HIT-CE...	60 009...	-	...04	1 x HIT-CE 35		6.2
9851IA/70HIT-CE...	60 010...	-	...04	1 x HIT-CE 70		6.2
With power reduction (LR)						
9851IA-LR/LED3000nw...	60 832...	...40	-	LED 1700 lm	36.5 W	7.4

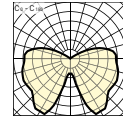
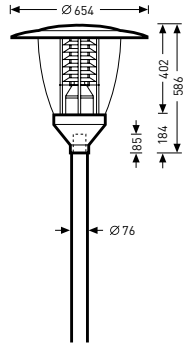
Classic luminaires with rotationally symmetric wide distribution secondary optic (IS)



9851IS/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
9851IS/LED2000nw...	59 476...	...40	-	LED 1100 lm	23 W	7.2
9851IS/LED3000nw...	60 821...	...40	-	LED 1900 lm	35 W	7.2
9851IS/35HIT-CE...	60 013...	-	...04	1 x HIT-CE 35		6.2
9851IS/70HIT-CE...	60 014...	-	...04	1 x HIT-CE 70		6.2
With power reduction (LR)						
9851IS-LR/LED3000nw...	60 831...	...40	-	LED 1900 lm	36.5 W	7.4

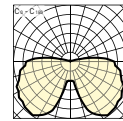
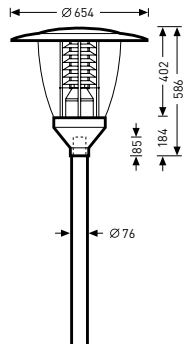
Classic luminaires with asymmetric lamella optic (LA)



9852LA/TCL18-24 E	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	=kg
9852LA/TCL18-24...	49 413...	...04	2 x TC-L 18/24	6.4

Classic luminaires with lamella optic (LO)



9851LO/100HSE K	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	=kg
9851LO/100HSE...	13 975...	-	...02	1 x HSE 100	8.1
9851LO/50-70HSE-E... ¹⁾²⁾	13 977...	-	...02	1 x HSE-E 50/70	8.0
9851LO/TCT26/32/42...	13 980...	...04	-	1 x TC-T 26/32/42	6.3
9852LO/TCL18-24...	14 022...	...04	-	2 x TC-L 18/24	6.4

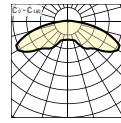
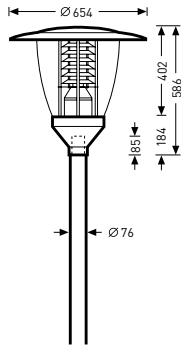
With power reduction (LR)

9851LO-LR/100HSE...	13 981...	-	...02	1 x HSE 100	8.9
9851LO-LR/70HSE-E... ¹⁾	13 984...	-	...02	1 x HSE-E 70	8.1

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Classic luminaires with asymmetric specular optic (SA)



9851SA/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m

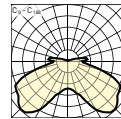
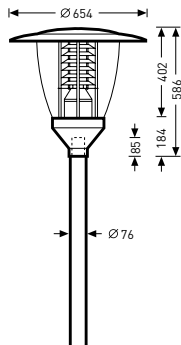


Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9851SA/100HSE...	13 998...	-	...02	1 x HSE 100	8.1
9851SA/50-70HSE-E... ^{1) 2)}	14 000...	-	...02	1 x HSE-E 50/70	8.0
9851SA/TCT26/32/42...	14 003...	...04	-	1 x TC-T 26/32/42	6.3
With power reduction (LR)					
9851SA-LR/100HSE...	14 004...	-	...02	1 x HSE 100	8.9
9851SA-LR/70HSE-E... ¹⁾	14 007...	-	...02	1 x HSE-E 70	8.1

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Classic luminaires with cylinder optic (ZO)



9851ZO/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m

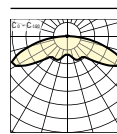
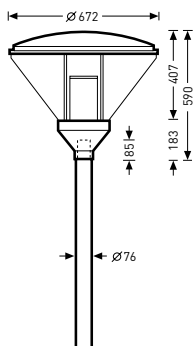


Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9851ZO/100HSE...	14 009...	-	...02	1 x HSE 100	8.1
9851ZO/50-70HSE-E... ^{1) 2)}	14 011...	-	...02	1 x HSE-E 50/70	8.0
9851ZO/TCT26/32/42...	14 015...	...04	-	1 x TC-T 26/32/42	6.3
With power reduction (LR)					
9851ZO-LR/100HSE...	14 016...	-	...02	1 x HSE 100	8.9
9851ZO-LR/70HSE-E... ¹⁾	14 019...	-	...02	1 x HSE-E 70	8.1

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

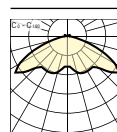
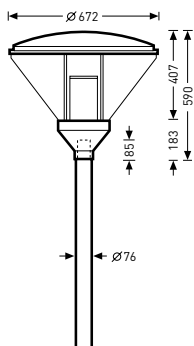
Classic conical lanterns with asymmetric wide distribution secondary optics (IA)



98611A/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
98611A/LED2000nw...	59 479...	...40	-	LED 1100 lm	23 W	7.4
98611A/LED3000nw...	60 824...	...40	-	LED 1700 lm	35 W	8.4
98611A/35HIT-CE...	60 017...	-	...04	1 x HIT-CE 35		6.8
98611A/70HIT-CE...	60 018...	-	...04	1 x HIT-CE 70		6.8
With power reduction (LR)						
98611A-LR/LED3000nw...	60 834...	...40	-	LED 1700 lm	36.5 W	8.6

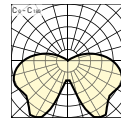
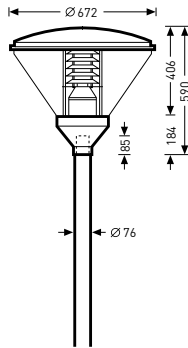
Classic conical lanterns with rotationally symmetric wide distribution secondary optic (IS)



98611S/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
98611S/LED2000nw...	59 478...	...40	-	LED 1100 lm	23 W	7.4
98611S/LED3000nw...	60 823...	...40	-	LED 1900 lm	35 W	8.4
98611S/35HIT-CE...	60 021...	-	...04	1 x HIT-CE 35		6.8
98611S/70HIT-CE...	60 022...	-	...04	1 x HIT-CE 70		6.8
With power reduction (LR)						
98611S-LR/LED3000nw...	60 833...	...40	-	LED 1900 lm	36.5 W	8.6

Classic conical lanterns with asymmetric lamella optic (LA)



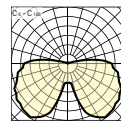
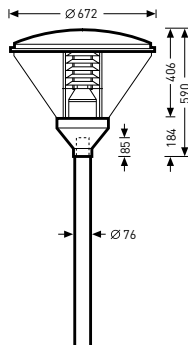
9862LA/TCL18-24 E

Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
9862LA/TCL18-24...	49 415...	...04	2 x TC-L 18/24	6.6

Classic conical lanterns with lamella optic (LO)



9861LO/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9861LO/100HSE...	14 032...	-	...02	1 x HSE 100	8.3
9861LO/50-70HSE-E... ¹⁾²⁾	14 034...	-	...02	1 x HSE-E 50/70	8.2
9861LO/TCT26/32/42...	14 038...	...04	-	1 x TC-T 26/32/42	6.5
9862LO/TCL18-24...	14 080...	...04	-	2 x TC-L 18/24	6.6

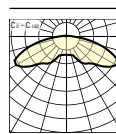
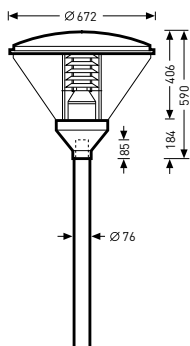
With power reduction (LR)

9861LO-LR/100HSE...	14 039...	-	...02	1 x HSE 100	9.1
9861LO-LR/70HSE-E... ¹⁾	14 042...	-	...02	1 x HSE-E 70	8.3

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Classic conical lanterns with asymmetric specular optic (SA)



9861SA/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m

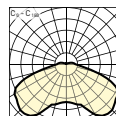
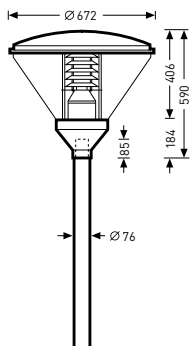


Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9861SA/100HSE...	14 056...	-	...02	1 x HSE 100	8.3
9861SA/50-70HSE-E... ¹⁾²⁾	14 058...	-	...02	1 x HSE-E 50/70	8.2
9861SA/TCT26/32/42...	14 061...	...04	-	1 x TC-T 26/32/42	6.5
With power reduction (LR)					
9861SA-LR/100HSE...	14 062...	-	...02	1 x HSE 100	9.1
9861SA-LR/70HSE-E... ¹⁾	14 065...	-	...02	1 x HSE-E 70	8.3

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Classic conical lanterns with cylinder optic (ZO)



9861ZO/100HSE K

Safety class	II
Protection rating	IP65
Mounting height	3-5 m

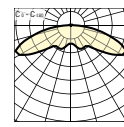
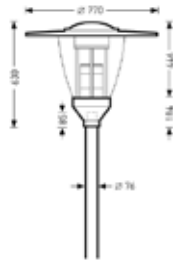


Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9861ZO/100HSE...	14 067...	-	...02	1 x HSE 100	8.3
9861ZO/50-70HSE-E... ¹⁾²⁾	14 069...	-	...02	1 x HSE-E 50/70	8.2
9861ZO/TCT26/32/42...	14 073...	...04	-	1 x TC-T 26/32/42	6.5
With power reduction (LR)					
9861ZO-LR/100HSE...	14 074...	-	...02	1 x HSE 100	9.1
9861ZO-LR/70HSE-E...	14 077...	-	...02	1 x HSE-E 70	8.3

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

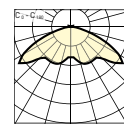
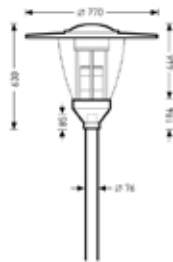
Classic luminaires with asymmetric wide distribution secondary optics (IA)



9871IA/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m
10	

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
9871IA/LED2000nw...	62 833...	...40	LED 1100 lm	23 W	7.2
9871IA/LED3000nw...	62 834...	...40	LED 1700 lm	35 W	7.2
With power reduction (LR)					
9871IA-LR/LED3000nw...	62 835...	...40	LED 1700 lm	36.5 W	7.2

Classic luminaires with rotationally symmetric wide distribution secondary optic (IS)



9871IS/LED2000nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m
10	

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
9871IS/LED2000nw...	62 836...	...40	LED 1100 lm	23 W	7.2
9871IS/LED3000nw...	62 837...	...40	LED 1900 lm	35 W	7.2
With power reduction (LR)					
9871IS-LR/LED3000nw...	62 838...	...40	LED 1900 lm	36.5 W	7.2

Post mounting elements



Reference	TOC	Accessory description	≈kg
09800/2/76-II	22 236 00	Twin arm-bracket	10.0
09800/3/76-II	22 237 00	Triple arm-bracket	15.0

Wall mounting bracket



Reference	TOC	Accessory description	≈kg
09800 WB	22 241 00	Wall mounting bracket	6.3

Reduction pieces



Reference	TOC	Accessory description	≈kg
0980/60	22 235 00	Reduction piece for post spigot Ø 60 mm	0.5

Release brackets



Reference	TOC	Accessory description	≈kg
09800 EB	22 238 00	Release bracket	0.1

Shieldings



Reference	TOC	Accessory description	≈kg
09800 LO-AS	22 239 00	Shielding for ...LO... lamella optics	0.2
09800 SA-AS	22 240 00	Shielding for asymmetrical specular optic ...SA...	0.2
09800 ZO-AS	22 242 00	Shielding for ...ZO... cylinder optics	0.2

Small side-bracket mounted luminaires



The small side-bracket mounted luminaire 9301 K... appeals with its classic and timeless form. The wide range of lamp options enables flexibility of use and thanks to the latest LED technology, roads are bathed in New Light. The 9301 K... series is predestined for applications with low mounting heights and complements its "big brother" to complete a family with proven technical characteristics.

Timeless: The well-known form and modern, functional technology make this compact luminaire a real classic.

Safe light: Homogeneous, glare-free lighting of the complete road means high levels of safety.

Efficient: Rapid, simple installation and economical light sources achieve maximum efficiency.

Long-life: Maximum manufacturing quality and technology ensure permanent value.

Robust: By using high quality materials, the service life is extremely long, even in tough surroundings.

Applications

Collection roads, residential roads, low-traffic roads, pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks.

Mounting type

Bracket or wall mounting.

Optical systems

Of highly specular anodised aluminium. With asymmetrical wide light intensity distribution. **9301 K-R...** With extremely wide luminous intensity distribution for the lighting of paths, especially cycle paths.

LED system

LED degradation L80, LED mortality B10, service life 50,000 operating hours, colour rendering index Ra > 80. Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Luminaire body of corrosion-resistant aluminium, outer colour deep black, similar to RAL 9005, white inner, coated, highly weather resistant. Diffuser of highly impact-resistant, clear PMMA. Securely fixed with one stainless steel screw. **9301 K... + 09300 K/1/76** Windage area $F_w = 0.203 \text{ m}^2$. **9301 K... + 09300 K/2/76** Windage area $F_w = 0.426 \text{ m}^2$.

Electrical version

Gear tray with plug connection can be easily removed. Electrical connection via 3-pole socket part of plug connection, up to 2.5 mm². With cable strain relief system. **...K...** With inductive ballast, parallel-compensated. **...E...** With electronic ballast. **...ET...** With electronic transformer, switchable.

Supplementary equipment

...LR... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

Required accessory

Bracket of aluminium tube and die-cast components, colour deep black, similar to RAL 9005, highly weather resistant, powder-coated. Post spigot Ø 76 mm. Connection module with double and triple configuration can be removed without tools. With 3-pole terminal to 2.5 mm² and cable strain relief system. Pre-wired.

Wall mounting for 1 luminaire of aluminium tube and die-cast components, colour deep black, similar to RAL 9005, highly weather resistant, powder-coated. Wall plate with four fixing holes, Ø 10 mm.



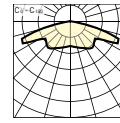
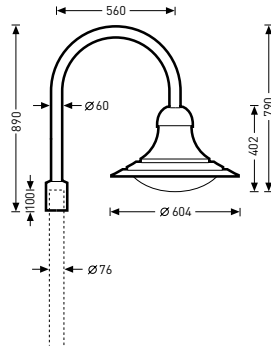
In addition to the specified LED versions with Fortimo LED modules, it is also possible to equip the side-bracket mounted luminaire family with MLT (Multi-Lens Technology) LED systems. Please contact us about your project solution.

UV and temperature-resistant lens systems in configurations of four emit asymmetric wide light distribution. Luminaire luminous flux levels of up to 4500 lm guarantee highly efficient lighting systems with up to 90 lm/W.

The gear tray with all required control gear and the optical system can be simply fixed in a defined position in the luminaire body. Electrical contact is via plug connection. The computer-optimised optical system achieves stipulated homogeneity for illuminance and luminance. The clear diffuser of highly impact-resistant PMMA is fixed with one captive stainless steel screw.



Small side-bracket mounted luminaires



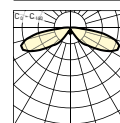
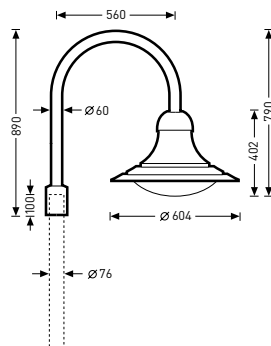
9301K/LED1800nw ET	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...ET ...40	...E ...04	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
9301K/LED1800nw...	60 202...	...40	-	-	LED 1600 lm	20 W	5.8
9301K/LED3000nw...	60 052...	...40	-	-	LED 2600 lm	34 W	6.5
9301K/35HIT-CE...	60 057...	-	...04	...02	1 x HIT-CE 35		5.6
9301K/45HIT-CE/OD...	60 056...	-	...04	-	1 x HIT-CE/OD 45		6.1
9301K/50-70HST... ¹⁾	60 055...	-	-	...02	1 x HST 50/70		6.7
9301K/60HIT-CE/OD...	60 054...	-	...04	-	1 x HIT-CE/OD 60		6.1
9301K/70HIT-CE...	60 053...	-	...04	...02	1 x HIT-CE 70		5.6
9301K/70HST...	60 055...	-	...04	-	1 x HST 70		6.0
9301K/TCT26/32/42...	60 051...	-	...04	-	1 x TCT 26/32/42		5.5
With power reduction (LR)							
9301K-LR/LED3000nw...	60 046...	...40	-	-	LED 2600 lm	35.5 W	6.6
9301K-LR/50HST...	60 050...	-	-	...02	1 x HST 50		6.8
9301K-LR/70HST...	60 049...	-	-	...02	1 x HST 70		6.8

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Small side-bracket mounted luminaires with cycle path optic (R)



9301K-R/35HIT-CE E	
Safety class	II
Protection rating	IP65
Mounting height	3-5 m



Reference	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
9301K-R/35HIT-CE...	60 048...	...04	...02	1 x HIT-CE 35	5.9
9301K-R/50-70HST...	60 047...	-	...02	1 x HST 50/70	7.0
9301K-R/70HST...	60 047...	...04	-	1 x HST 70	6.3

Post mounting elements



Reference	TOC	Accessory description	≈kg
09300 K/1/76	60 204 00	Post mounting element, single-headed, for side-bracket mounted luminaire 9301 K...	5.9
09300 K/2/76-II	60 205 00	Post mounting element, double-headed, for side-bracket mounted luminaire 9301 K...	9.2

Wall mounting bracket



Reference	TOC	Accessory description	≈kg
09300 K-WB	60 206 00	Wall mounting for side-bracket mounted luminaire 9301 K...	6.2

Side-bracket mounted luminaires



Applications

Main roads, residential roads, collection roads, residential roads, low-traffic roads, pedestrian zones, arcades, passages, residential facilities, stairs, access areas, car parks.

Mounting type

Bracket or wall mounting.

Optical systems

Of highly specular anodised aluminium.
With asymmetrical wide light intensity distribution.

Luminaire body

Luminaire body of corrosion-resistant aluminium, outer colour deep black, similar to RAL 9005, white inner, coated, highly weather resistant.

Diffuser of highly impact-resistant PMMA, clear, finely structured. Securely fixed with one stainless steel screw.

931... + 09310/1/76 Windage area $F_w = 0.234 \text{ m}^2$.

931... + 09310/2/76 Windage area $F_w = 0.518 \text{ m}^2$.

931... + 09310/3/76 Windage area $F_w = 0.630 \text{ m}^2$.

Electrical version

Gear tray with plug connection, can be easily removed.
Electrical connection via 3-pole socket part of plug connection, up to 2.5 mm². With cable strain relief system.

...KK... With inductive ballast, parallel-compensated, two circuits.

...K... With inductive ballast, parallel-compensated.

...E... With electronic ballast.

Supplementary equipment

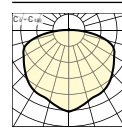
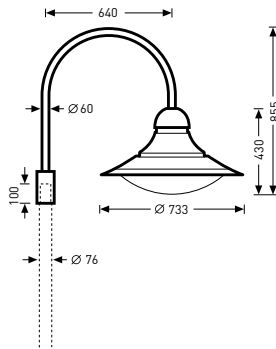
...LR... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

Required accessory

Bracket of aluminium tube and die-cast components, colour deep black, similar to RAL 9005, highly weather resistant, powder-coated. Post spigot $\varnothing 76 \text{ mm}$. Connection module with double and triple configuration can be removed without tools. With 3-pole terminal to 2.5 mm² and cable strain relief system. Pre-wired.

Wall mounting for 1 luminaire of aluminium tube and die-cast components, colour deep black, similar to RAL 9005, highly weather resistant, powder-coated. Wall plate with four fixing holes, $\varnothing 10 \text{ mm}$.

Side-bracket mounted luminaires



9311/100-150HSE K

Safety class

II

Protection rating

IP65

Mounting height

4-6 m



Reference	TOC	...E ...04	...K ...02	...KK ...09	Lamps / Luminaire luminous flux	≈kg
9311/100-150HSE... ¹⁾	13 371...	-	...02	-	1 x HSE 100/150	11.2
9311/50-70HSE-E... ^{1) 2)}	13 372...	-	...02	-	1 x HSE-E 50/70	9.5
9311/TCT26/32/42...	13 375...	...04	-	-	1 x TC-T 26/32/42	7.8
9312/50-70HSE-E... ^{1) 2)}	13 381...	-	-	...09	2 x HSE-E 50/70	11.1
9312/TCL18-24...	13 383...	...04	-	-	2 x TC-L 18/24	8.0
With power reduction (LR)						
9311LR/100HSE...	13 376...	-	...02	-	1 x HSE 100	10.4
9311LR/150HSE...	13 378...	-	...02	-	1 x HSE 150	11.3
9311LR/70HSE-E...	13 379...	-	...02	-	1 x HSE-E 70	9.6

¹⁾ Ballast can be reconnected, factory-preset to the lower level

²⁾ Lamp for external ignition

Post mounting elements



Reference	TOC	Accessory description	≈kg
09310/1/76	22 221 00	Post mounting element, single-headed, for side-bracket mounted luminaire 9311...	6.2
09310/2/76-II	29 302 00	Post mounting element, double-headed, for side-bracket mounted luminaire 9311...	14.5
09310/3/76-II	29 303 00	Post mounting element, triple-headed, for side-bracket mounted luminaire 9311...	19.8

Wall mounting bracket



Reference	TOC	Accessory description	≈kg
09310 WB	29 304 00	Wall mounting for side-bracket mounted luminaire 9311...	6.2

LED post-top and bracket-mounted luminaires



It's the combination of innovative technology, an attractive design and simple handling that makes the Viatana LED something special. Thanks to state-of-the-art LED and unique reflector technology, it illuminates the road section highly efficiently, reliably and according to requirements. The modular luminaire design and use of LED modules complying to the Zhaga specification enables any future changes to be carried out easily.

Simply future-safe. Certified: Viatana is the first Zhaga-certified outdoor luminaire in the world. This means upgrading to future LED generations is possible.

Maximum efficiency. More options: The Viatana combines state-of-the-art LED technology and free-form reflector technology to achieve optimum luminous efficacy and maximum energy efficiency. Programmable control units enable power-reducing switching concepts and also reduce energy costs. Optional light management systems offer additional savings potential.

A timeless design. With style: The Viatana with its elegant looks and timeless design blends harmoniously into all surroundings.

Simplest installation. Simplest replacements: The electrical components are accommodated on an electrical block that is removable without tools. This simplifies and quickens the installation process.

High output. Adaptable: The Viatana is available with luminaire luminous flux of between 2,000 and 9,000 lumen to enable the optimal illumination of various traffic zones.

Applications

Traffic roads, main roads, collection roads, residential roads, low-traffic roads, paths in parks and green areas, residential facilities, stairs, access areas, crossroads, traffic roundabouts, car parks.

Mounting type

Post-top luminaire for post spigot \varnothing 76 mm.
Simple installation and maintenance via tool-free opening of luminaire.

Viatana A Bracket-mounted luminaire for post spigot \varnothing 60 mm.

Optical systems

Optical system of metallised 3D freeform plastic reflector, semi-specular.

With asymmetrical wide light intensity distribution.

...**FÜR**... With special optic for lighting of pedestrian crossings.

LED system

LED system consists of two standardised LED modules, Zhaga-compliant, mounted to aluminium supports. LED modules can be separately replaced due to patented clamp system.

LED degradation L80, LED mortality B10, service life 70,000 operating hours, colour rendering index $R_a > 70$.
Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Luminaire body of die-cast aluminium.

Colour of luminaire body anthracite, similar to DB 703 with metal effect, highly weather resistant, powder-coated.

Cover of heat-treated non-laminated safety glass. Cover sealed in cast frame, can be hinged down without tools.

Transmission value of cover $> 98\%$, reflection-reduced.

Sealings of sulphur-free, synthetic EPDM rubber.

Windage area $F_w = 0.177 \text{ m}^2$.

Electrical version

Electrical block contains all electric components, can be replaced without tools. With automatic power disconnection when luminaire is opened. Configurable ballast with luminous flux constant control and thermal overload protection of LED modules. With 5-pole terminal to 2.5 mm² and insulated terminal point for earth conductor. Accessible without tools. M20 cable gland as strain relief. For 6 mm to 12 mm cable diameters.

...**ET**... With electronic transformer, switchable.

...**ETDD**... With electronic transformer, digitally dimmable (DALI).

Supplementary equipment

...**LR**... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

...**LRA**... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50% for a time period of 7 hours (-2 h/+5 h), centred on the illuminated time period which is redefined on a daily basis.



Zhaga

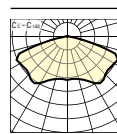
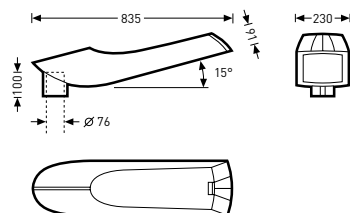
The Viatana series has been designed for both post-top and bracket-mounted installation. The luminaire has been adapted to the desired mounting type via various post mountings of die-cast aluminium. The mounting elements blend harmoniously into the design concept of the luminaire and high quality materials ensure a long operational service life. E.g. TRILUX uses sulphur-free sealing materials because sulphurous fumes are liable to damage LEDs and reduce their service life.

The unique Viatana reflector technology enables a wide application spectrum and thanks to optimal light control is ideal for various lighting needs. The computer-optimised, matt vaporised 3D freeform reflector guarantees high efficiency and a high level of visual comfort, distributing the light onto the road section with a high lumen yield and specifically according to target. A special optic is available for the standard-compliant illumination of pedestrian crossings.

The technical concept of the Viatana has been consistently focused according to the use of standardised LED modules for outdoor luminaires in compliance with the Zhaga specification. Thanks to sophisticated thermal management and the patented mounting system, the Viatana represents a quality product with long service life and simple replacement. Access to and replacement of the electrical block is without tools and plug connections ensure simple electrical contact. A configurable control unit offers a diversity of switching variants and protective functions for operation of both LED modules.



Post-top luminaires with flat cover



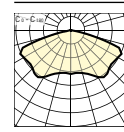
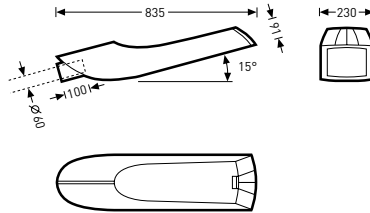
Viatana/2000-740 ET 26

Safety class	II
Protection rating	IP66
Mounting height	4-8 m



Reference	TOC	---ETDD ---51	---ET ---40	Lamps / Luminaire luminous flux	Connected load	≈kg
Viatana/2000-740---26	61 010...	---51	---40	LED 2000 lm	20 W	12.5
Viatana/3000-740---26	61 011...	---51	---40	LED 3000 lm	30 W	12.5
Viatana/4500-740---26	61 012...	---51	---40	LED 4500 lm	53 W	12.5
Viatana/6000-740---26	61 013...	---51	---40	LED 6000 lm	72 W	12.5
Viatana/7500-740---26	61 014...	---51	---40	LED 7500 lm	79 W	12.5
Viatana/9000-740---26	61 053...	---51	---40	LED 9000 lm	95 W	12.5
With power reduction (LR)						
Viatana LR/2000-740---26	61 017...	-	---40	LED 2000 lm	20 W	12.7
Viatana LR/3000-740---26	61 018...	-	---40	LED 3000 lm	30 W	12.7
Viatana LR/4500-740---26	61 019...	-	---40	LED 4500 lm	53 W	12.7
Viatana LR/6000-740---26	61 020...	-	---40	LED 6000 lm	72 W	12.7
Viatana LR/7500-740---26	61 021...	-	---40	LED 7500 lm	79 W	12.7
Viatana LR/9000-740---26	61 054...	-	---40	LED 9000 lm	95 W	12.7
With intelligent power reduction (LRA)						
Viatana LRA/2000-740---26	61 022...	-	---40	LED 2000 lm	20 W	12.5
Viatana LRA/3000-740---26	61 023...	-	---40	LED 3000 lm	30 W	12.5
Viatana LRA/4500-740---26	61 024...	-	---40	LED 4500 lm	53 W	12.5
Viatana LRA/6000-740---26	61 025...	-	---40	LED 6000 lm	72 W	12.5
Viatana LRA/7500-740---26	61 026...	-	---40	LED 7500 lm	79 W	12.5
Viatana LRA/9000-740---26	61 055...	-	---40	LED 9000 lm	95 W	12.5

Bracket-mounted luminaires with flat cover



Viatana A/2000-740 ET 26

Safety class	II
Protection rating	IP66
Mounting height	4-8 m



Reference	TOC	...ETDD ...51	...ET ...40	Lamps / Luminaire Luminous flux	Connected load	≈kg
Viatana A/2000-740...26	61 027...	...51	...40	LED 2000 lm	20 W	12.3
Viatana A/3000-740...26	61 028...	...51	...40	LED 3000 lm	30 W	12.3
Viatana A/4500-740...26	61 029...	...51	...40	LED 4500 lm	53 W	12.3
Viatana A/6000-740...26	61 030...	...51	...40	LED 6000 lm	72 W	12.3
Viatana A/7500-740...26	61 031...	...51	...40	LED 7500 lm	79 W	12.3
Viatana A/9000-740...26	61 056...	...51	...40	LED 9000 lm	95 W	12.3
With power reduction (LR)						
Viatana A-LR/2000-740...26	61 032...	-	...40	LED 2000 lm	20 W	12.5
Viatana A-LR/3000-740...26	61 033...	-	...40	LED 3000 lm	30 W	12.5
Viatana A-LR/4500-740...26	61 034...	-	...40	LED 4500 lm	53 W	12.5
Viatana A-LR/6000-740...26	61 035...	-	...40	LED 6000 lm	72 W	12.5
Viatana A-LR/7500-740...26	61 036...	-	...40	LED 7500 lm	79 W	12.5
Viatana A-LR/9000-740...26	61 057...	-	...40	LED 9000 lm	95 W	12.5
With intelligent power reduction (LRA)						
Viatana A-LRA/2000-740...26	61 037...	-	...40	LED 2000 lm	20 W	12.3
Viatana A-LRA/3000-740...26	61 038...	-	...40	LED 3000 lm	30 W	12.3
Viatana A-LRA/4500-740...26	61 039...	-	...40	LED 4500 lm	53 W	12.3
Viatana A-LRA/6000-740...26	61 040...	-	...40	LED 6000 lm	72 W	12.3
Viatana A-LRA/7500-740...26	61 041...	-	...40	LED 7500 lm	79 W	12.3
Viatana A-LRA/9000-740...26	61 058...	-	...40	LED 9000 lm	95 W	12.3

Post mounting elements

Reference	TOC	Accessory description	≈kg
Viatana ZM1/76-0°	61 045 00	Post mounting element for Viatana A, 1-headed, inclination angle 0°	3.2
Viatana ZM2/76-II	61 046 00	Post mounting element for Viatana A, 2-headed, inclination angle 15°	4.5
Viatana ZM2/76-II-0°	61 047 00	Post mounting element for Viatana A, 2-headed, inclination angle 0°	4.5
Viatana ZM3/76-II	61 048 00	Post mounting element for Viatana A, 3-headed, inclination angle 15°	5.8
Viatana ZM3/76-II-0°	61 049 00	Post mounting element for Viatana A, 3-headed, inclination angle 0°	5.8

Wall mounting brackets

Reference	TOC	Accessory description	=kg
Viatana ZW 26	61 051 00	Wall mounting brackets for Viatana A, inclination angle 15°	2.2
Viatana ZW-0° 26	61 050 00	Wall mounting brackets for Viatana A, inclination angle 0°	2.7

Reduction pieces

Reference	TOC	Accessory description	=kg
Viatana ZR/42	61 042 00	Reduction piece for Viatana A, for post spigot Ø 42 mm	0.2
Viatana ZR/48	61 043 00	Reduction piece for Viatana A, for post spigot Ø 48 mm	0.1
Viatana ZR/60	61 044 00	Reduction piece for post spigot Ø 60 mm	0.1

LED post-top and bracket-mounted luminaire



The Lumega IQ LED is in its element when it gets dark outside and thanks to its flexibility, it is not limited to specific applications but illuminates streets and parking areas just as efficiently and reliably as industrial facilities – adapting perfectly to specific applications due to various optics and LED systems. Installation and alignment is also child's play due to the functional luminaire design with patented features. A double plus: the already outstanding energy efficiency can be further improved with intelligent light management systems and switching concepts.

Installation. Simple and quick: Many practical and intelligent details such as tool-free replacement of components (E-Block) simplify installation and maintenance enormously.

Adjusting and converting: The patent for simplicity. Flexible, practical and patented: with only a single externally accessible screw the inclination angle of the Lumega IQ LED is adjusted and the luminaire converted from a post-top to bracket-mounted luminaire.

Maximum safety. Reliable lighting: Newly developed optical systems guarantee outstanding light distribution. The innovative optics ensure outstanding illumination and maximum safety, disturbance-free and continuously.

Efficiency. A question of technology: The energy efficiency of the Lumega IQ LED can be further increased via high-performance light management systems and application-oriented, intelligent switching concepts.

Luminaire type

LED road luminaire for post-top and bracket-mounting.

Lumega IQ70... For post heights to 8 m.

Lumega IQ90... For post heights to 14 m.

Mounting methods

Post-top and bracket-mounting, mast spigot \varnothing 76 mm. Inclination angle can be set in 5° steps, scaled. Simple and rapid adjustment via one screw accessible externally.

Applications

Residential roads, main roads, roundabouts, pedestrian crossings, parking lots, industrial areas.

Optical system

Multi Lens Technology (MLT), consisting of highly efficient lens systems in 4-fold configurations.

...**AB**...**L**... Asymmetric wide light distribution.

...**FÜR**... Special optic for pedestrian crossings.

LED system

Consisting of LED modules with square configured LEDs, each LED has an optical lens system.

Lumega IQ70... Luminaire luminous flux 3,000 to 11,000 lm, connected load 23 to 108 watts, luminous efficiency of luminaire up to 129 lm/W.

Lumega IQ90... Luminaire luminous flux 12,000 - 22,000 lm, connected load 110 - 227 watts, luminous efficiency of luminaire up to 110 lm/W.

...**730**... Light colour warm white (ww), colour temperature 3000 K.

...**740**... Light colour neutral white (nw), colour temperature 4000 K. Colour rendering index RA > 70.

Luminous flux degradation L80/B10 after 80,000 hours.

Luminaire body

Luminaire body of die-cast aluminium with sealed appearance side contour. Bi-colour luminaire: Anthracite luminaire body, similar to DB 703, swivel unit silver-grey offset. Cover of heat-treated non-laminated safety glass sealed in die-cast frame, can be hinged down without tools.

Lumega IQ70... windage area $F_w = 0.18 \text{ m}^2$.

Lumega IQ90... windage area $F_w = 0.25 \text{ m}^2$.

Electrical connection

Electrical connection to 5-pole terminal to 2.5mm². With insulated terminal point for earth conductor. Accessible without tools. M20 cable gland as strain relief. For 6 mm to 12 mm cable diameters.

Electrical version

Configurable control unit for luminous flux constant control and for thermal overload protection of LED modules. Electrical block contains all electric components, can be replaced without tools. With automatic power disconnection when luminaire is opened. Surge voltage resistance 4 kV.

Supplementary equipment

...**LR**... With power reduction via control phase.

Switching off one control phase implements reduction of luminaire luminous flux to 50%.

...**LRA**... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50 % for a time period of 7 hours (-2 h/+5 h), centred on the illuminated time period which is redefined on a daily basis.

Optional

Versions for operation with light management systems.



Lumega IQ LED has been designed for both post-top and bracket-mounted installation. Simple and quick conversion: external adjustment and fine adjustment of luminaire inclination in 5° steps is with a single screw.

Lumega IQ LED – the luminaire family with two construction sizes. Various optical systems featuring Multi Lens Technology (MLT) paired with closely matched luminous flux packages guarantee high efficiency as well as flexibility for planning.



LED post-top and bracket-mounted luminaires



Applications

Collection roads, residential roads, low-traffic roads, pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks, works roads.

Mounting type

Post-top and bracket-mounted luminaire for mast spigot \varnothing 76 mm. Inclination angle for post-top mounting 0° , 10° , for bracket mounting -10° , 0° adjustable. Also suitable for applications with masts \varnothing 42, 48 and 60 mm via reduction pieces to be ordered separately.

Cuvia 40 For post heights to 6 m.

Optical systems

Optical system with Multi-Lens technology.

With PMMA cover, clear.

With asymmetrical wide light intensity distribution.

Specific parameters for defining LED service life: L80, LED mortality B10, Service life 50,000 operating hours.

Colour rendering index $R_a > 70$, light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

The modular luminaire consists of the basis module and optical module. The mechanical and electrical connection of the modules is achieved without use of tools. With sulphur-free sealings. Luminaire body of die-cast aluminium. Windage area $F_w = 0.108 \text{ m}^2$.

One luminaire and many options: the TRILUX Cuvia LED. The modular design of the luminaire allows many variants with regard to luminous flux packages and optical systems. The result is always customised light on roads, paths and squares. The luminaire head can be simply replaced if photometric requirements are changed or at the end of the service life. This means future upgrades are achieved with minimum effort in terms of time and costs. In short: The Cuvia is an energy-efficient and future-proof investment with an appealing design.

The family with a future. Upgrades are taken into account: The modular design enables maximum flexibility with luminous flux packages and optical systems, making upgrades in the future very simple.

Economic. Over the complete life cycle: Efficiency is what counts in the complete life cycle of a luminaire. The low-maintenance and energy-efficient Cuvia range features total cost efficiency: with purchasing, operating costs and maintenance.

Maintenance and installation. Rapid, safe: Only one screw needs to be released to connect the E-block. The luminaire head can even be replaced without tools and the luminaire is adjusted between 0 - 10 degrees without effort. This makes installation and alignment especially simple.

A system with style. With a timeless design: High-grade materials and the eye-catchingly attractive Cuvia design ensures a high recognition factor and with optimal photometric results.

Electrical version

Electrical block with all electrical components integrated in base unit and replaceable. With 3-pole terminal to 2.5 mm^2 and insulated terminal point for earth conductor. M20 gland as cable strain relief for cable diameter 6 mm to 12 mm.

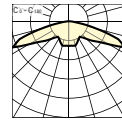
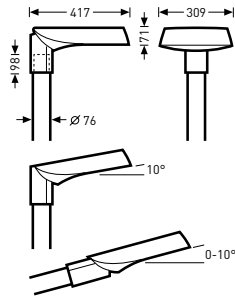
...ET... With electronic transformer, switchable.

Supplementary equipment

...LR... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

...LRA... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50% for a time period of 7 hours ($-2 \text{ h}/+5 \text{ h}$), centred on the illuminated time period which is redefined on a daily basis.

LED post-top and bracket-mounted luminaires

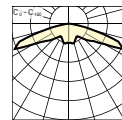
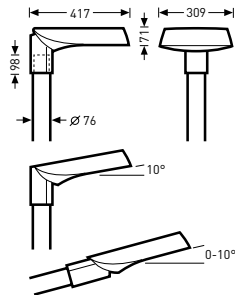


Cuvia 40-AB1L/800-740 1G2 ET	
Safety class	II
Protection rating	IP66
Mounting height	3-6 m

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Cuvia 40-AB1L/800-740 1G2... ¹⁾	63 378...	...40	LED 800 lm	10 W	5.6
Cuvia 40-AB1L/900-740 2G2...	63 379...	...40	LED 900 lm	10 W	5.6
Cuvia 40-AB1L/1200-740 2G2...	63 661...	...40	LED 1200 lm	14 W	5.6
Cuvia 40-AB1L/1350-740 2G2...	63 380...	...40	LED 1350 lm	16 W	5.7
Cuvia 40-AB1L/1650-740 2G2...	63 381...	...40	LED 1650 lm	20 W	5.7
Cuvia 40-AB1L/1800-740 3G2...	63 382...	...40	LED 1800 lm	21 W	5.7
Cuvia 40-AB1L/2200-740 3G2...	63 662...	...40	LED 2200 lm	27 W	6.2
Cuvia 40-AB1L/2400-740 3G2...	63 383...	...40	LED 2400 lm	30 W	6.2
Cuvia 40-AB1L/2600-740 4G2...	63 384...	...40	LED 2600 lm	31 W	6.2
Cuvia 40-AB1L/2900-740 4G2...	63 385...	...40	LED 2900 lm	36 W	6.2
Cuvia 40-AB1L/3200-740 4G2...	63 663...	...40	LED 3200 lm	40 W	6.2

¹⁾ only in connection with SOLAR

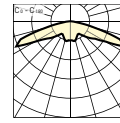
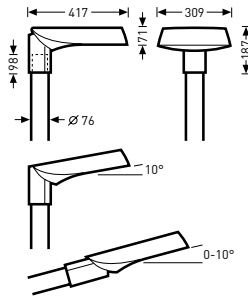
LED post-top and bracket-mounted luminaires, with power reduction (LR)



Cuvia 40-AB1L-LR/1200-740 2G2 ET	
Safety class	II
Protection rating	IP66
Mounting height	3-6 m

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Cuvia 40-AB1L-LR/1200-740 2G2...	63 655...	...40	LED 1200 lm	14 W	7.1
Cuvia 40-AB1L-LR/1350-740 2G2...	63 386...	...40	LED 1350 lm	16 W	7.1
Cuvia 40-AB1L-LR/1650-740 2G2...	63 387...	...40	LED 1650 lm	20 W	7.2
Cuvia 40-AB1L-LR/1800-740 3G2...	63 388...	...40	LED 1800 lm	21 W	7.2
Cuvia 40-AB1L-LR/2200-740 3G2...	63 656...	...40	LED 2200 lm	27 W	7.2
Cuvia 40-AB1L-LR/2400-740 3G2...	63 389...	...40	LED 2400 lm	30 W	7.7
Cuvia 40-AB1L-LR/2600-740 4G2...	63 390...	...40	LED 2600 lm	31 W	7.7
Cuvia 40-AB1L-LR/2900-740 4G2...	63 391...	...40	LED 2900 lm	36 W	7.7
Cuvia 40-AB1L-LR/3200-740 4G2...	63 657...	...40	LED 3200 lm	40 W	7.7

LED post-top and bracket-mounted luminaires, with power reduction, self-sufficient (LRA)



Cuvia 40-AB1L-LRA/1200-740 2G2 ET

Safety class	II
Protection rating	IP66
Mounting height	3-6 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Cuvia 40-AB1L-LRA/1200-740 2G2...	63 658...	...40	LED 1200 lm	14 W	7.1
Cuvia 40-AB1L-LRA/1350-740 2G2...	63 392...	...40	LED 1350 lm	16 W	7.1
Cuvia 40-AB1L-LRA/1650-740 2G2...	63 393...	...40	LED 1650 lm	20 W	7.2
Cuvia 40-AB1L-LRA/1800-740 3G2...	63 394...	...40	LED 1800 lm	21 W	7.2
Cuvia 40-AB1L-LRA/2200-740 3G2...	63 659...	...40	LED 2200 lm	27 W	7.2
Cuvia 40-AB1L-LRA/2400-740 3G2...	63 395...	...40	LED 2400 lm	30 W	7.7
Cuvia 40-AB1L-LRA/2600-740 4G2...	63 396...	...40	LED 2600 lm	31 W	7.7
Cuvia 40-AB1L-LRA/2900-740 4G2...	63 397...	...40	LED 2900 lm	36 W	7.7
Cuvia 40-AB1L-LRA/3200-740 4G2...	63 660...	...40	LED 3200 lm	40 W	7.7

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/42	22 232 00	Reduction piece, for post spigot Ø 42 mm	0.2
0970/48	22 233 00	Reduction piece, for post spigot Ø 48 mm	0.1
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

LED post-top and bracket-mounted luminaires



One luminaire and many options: the TRILUX Cuvia LED. The modular design of the luminaire allows many variants with regard to luminous flux packages and optical systems. The result is always customised light on roads, paths and squares. The luminaire head can be simply replaced if photometric requirements are changed or at the end of the service life. This means future upgrades are achieved with minimum effort in terms of time and costs. In short: The Cuvia is an energy-efficient and future-proof investment with an appealing design.

The family with a future. Upgrades are taken into account: The modular design enables maximum flexibility with luminous flux packages and optical systems, making upgrades in the future very simple.

Economic. Over the complete life cycle: Efficiency is what counts in the complete life cycle of a luminaire. The low-maintenance and energy-efficient Cuvia range features total cost efficiency: with purchasing, operating costs and maintenance.

Maintenance and installation. Rapid, safe: Only one screw needs to be released to connect the E-block. The luminaire head can even be replaced without tools and the luminaire is adjusted between 0-10 degrees without effort. This makes installation and alignment especially simple.

A system with style. With a timeless design: High-grade materials and the eye-catchingly attractive Cuvia design ensures a high recognition factor and with optimal photometric results.

Applications

Main roads, collection roads, residential roads, low-traffic roads, parking lots, works roads.

Mounting type

Post-top and bracket-mounted luminaire for mast spigot Ø 76 mm. Inclination angle for post-top mounting 0°, 10°, for bracket mounting -10°, 0° adjustable.

Also suitable for applications with masts Ø 42, 48 and 60 mm via reduction pieces to be ordered separately.

Cuvia 60 For post heights to 8 m.

Optical systems

Optical system with Multi-Lens technology.

With PMMA cover, clear.

With asymmetrical wide light intensity distribution.

Specific parameters for defining LED service life: L80, LED mortality B10, Service life 50,000 operating hours.

Colour rendering index Ra > 70, light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

The modular luminaire consists of the basis module and optical module. The mechanical and electrical connection of the modules is achieved without use of tools. With sulphur-free sealings. Luminaire body of die-cast aluminium.

Windage area $F_w = 0.108 \text{ m}^2$.

Electrical version

Electrical block with all electrical components integrated in base unit and replaceable. With 3-pole terminal to 2.5 mm² and insulated terminal point for earth conductor. M20 gland as cable strain relief for cable diameter 6 mm to 12 mm.

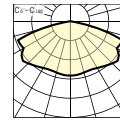
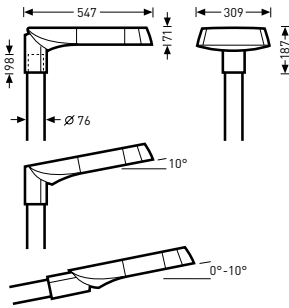
...ET... With electronic transformer, switchable.

Supplementary equipment

...LR... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

...LRA... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50% for a time period of 7 hours (-2 h/+5 h), centred on the illuminated time period which is redefined on a daily basis.

LED post-top and bracket-mounted luminaires

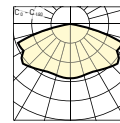
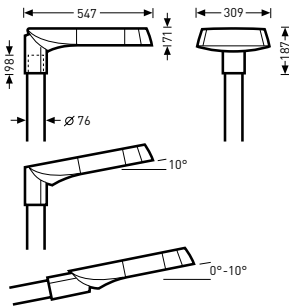


Cuvia 60-AB6L/3500-740 8G1 ET	
Safety class	II
Protection rating	IP66
Mounting height	6-8 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Cuvia 60-AB6L/3500-740 8G1...	63 398...	...40	LED 3500 lm	35 W	6.2
Cuvia 60-AB6L/3800-740 8G1...	63 399...	...40	LED 3800 lm	38 W	6.2
Cuvia 60-AB6L/4200-740 8G1...	63 400...	...40	LED 4200 lm	37 W	6.2
Cuvia 60-AB6L/4600-740 8G1...	63 401...	...40	LED 4600 lm	40 W	6.2
Cuvia 60-AB6L/5100-740 8G1...	63 402...	...40	LED 5100 lm	45 W	6.2
Cuvia 60-AB6L/5600-740 8G1...	63 403...	...40	LED 5600 lm	49 W	6.2
Cuvia 60-AB6L/6200-740 8G1...	63 404...	...40	LED 6200 lm	57 W	6.2
Cuvia 60-AB6L/6800-740 8G1...	63 405...	...40	LED 6800 lm	62 W	6.2

LED post-top and bracket-mounted luminaires, with power reduction (LR)

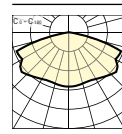
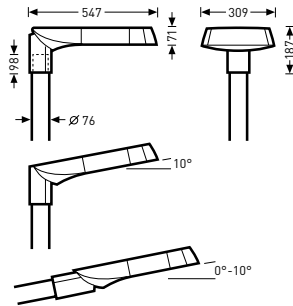


Cuvia 60-AB6L-LR/3500-740 8G1 ET	
Safety class	II
Protection rating	IP66
Mounting height	6-8 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Cuvia 60-AB6L-LR/3500-740 8G1...	63 407...	...40	LED 3500 lm	35 W	7.7
Cuvia 60-AB6L-LR/3800-740 8G1...	63 408...	...40	LED 3800 lm	38 W	7.7
Cuvia 60-AB6L-LR/4200-740 8G1...	63 409...	...40	LED 4200 lm	37 W	7.7
Cuvia 60-AB6L-LR/4600-740 8G1...	63 410...	...40	LED 4600 lm	40 W	7.7
Cuvia 60-AB6L-LR/5100-740 8G1...	63 411...	...40	LED 5100 lm	45 W	7.7
Cuvia 60-AB6L-LR/5600-740 8G1...	63 412...	...40	LED 5600 lm	49 W	7.7
Cuvia 60-AB6L-LR/6200-740 8G1...	63 413...	...40	LED 6200 lm	57 W	7.7
Cuvia 60-AB6L-LR/6800-740 8G1...	63 414...	...40	LED 6800 lm	62 W	7.7

LED post-top and bracket-mounted luminaires, with power reduction, self-sufficient (LRA)



Cuvia 60-AB6L-LRA/3500-740 8G1 ET	
Safety class	II
Protection rating	IP66
Mounting height	6-8 m

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Cuvia 60-AB6L-LRA/3500-740 8G1...	63 416...	...40	LED 3500 lm	35 W	7.7
Cuvia 60-AB6L-LRA/3800-740 8G1...	63 417...	...40	LED 3800 lm	38 W	7.7
Cuvia 60-AB6L-LRA/4200-740 8G1...	63 418...	...40	LED 4200 lm	37 W	7.7
Cuvia 60-AB6L-LRA/4600-740 8G1...	63 419...	...40	LED 4600 lm	40 W	7.7
Cuvia 60-AB6L-LRA/5100-740 8G1...	63 420...	...40	LED 5100 lm	45 W	7.7
Cuvia 60-AB6L-LRA/5600-740 8G1...	63 421...	...40	LED 5600 lm	49 W	7.7
Cuvia 60-AB6L-LRA/6200-740 8G1...	63 422...	...40	LED 6200 lm	57 W	7.7
Cuvia 60-AB6L-LRA/6800-740 8G1...	63 423...	...40	LED 6800 lm	62 W	7.7

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/42	22 232 00	Reduction piece, for post spigot Ø 42 mm	0.2
0970/48	22 233 00	Reduction piece, for post spigot Ø 48 mm	0.1
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

Post-top and bracket-mounted luminaires



Thanks to computer-optimised single lenses, Lumega 600 MLT (Multi-Lens-Technology) allows targeted distribution of light over the complete road section. With differing variants it achieves a luminaire luminous flux ranging between 2000 lm and 4500 lm and thus ensures efficiency in a wide application range.

Versatile: Wide application spectrum via optimal light guidance from computer-optimised single lenses and diverse luminaire luminous flux levels.

Future-fit: The modular design means upgrading to later, more efficient LED generations is easy.

Uncomplicated: The intelligent and proven luminaire construction of the Lumega 600 MLT means mounting and maintenance is child's play.

Long-life: The high IP66 protection and high quality materials ensure a long service life.

Safe: Homogeneous illumination of the complete road section helps to reduce the risk of accidents.

Applications

Municipal roads, collection roads, residential roads, low-traffic roads, paths in parks and green areas, residential facilities, cycle paths, stairs, access areas, crossroads, traffic roundabouts, car parks, cross country ski courses.

Mounting type

Post-top and bracket-mounted luminaire for spigot \varnothing 76 mm.

Inclination angle can be set for post-top mounting $0^\circ \dots 25^\circ$, for bracket-mounting $0^\circ \dots 15^\circ$.

Optical systems

Optical system of highly specular anodised aluminium. **...SG-AB/LED...** Optical system with Multi-Lens Technology. Consists of highly efficient, UV and temperature-resistant lens systems. With asymmetrical wide light intensity distribution.

LED system

...SG-AB/LED... LED module consisting of die-cast aluminium housing with integrated LEDs and optical systems.

With 28 high performance LEDs.

LED degradation L80, LED mortality B10, service life 80,000 operating hours, colour rendering index Ra > 70.

...ww... Light colour warm white (ww), colour temperature 3000 K.

...nw... Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Luminaire body of die-cast aluminium, bi-colour: light grey RAL 7035 and anthracite grey RAL 7016, powder-coated, highly weather resistant.

Diffuser of highly impact-resistant, clear PMMA.

Can be swung downwards and unhooked without tools.

Windage area $F_w = 0.100 \text{ m}^2$.

...SG... Flat cover of heat-treated, non-laminated safety glass, enclosed in die-cast frame. Windage area $F_w = 0.091 \text{ m}^2$.

...SG-AB/LED... With sealed clear cover of PMMA. Windage area $F_w = 0.091 \text{ m}^2$.

Electrical version

Electrical block containing all electric components accessible from above, can be replaced without tools. 3-pole connection terminal to 2.5 mm². M20 cable gland as strain relief for cable diameter 6 mm to 12 mm. Connection compartment opened without tools via large, easy-to-handle lever catches.

...K... With inductive ballast, parallel-compensated.

...E... With electronic ballast.

...ET... With electronic transformer, switchable.

Supplementary equipment

...LR... With power reduction of luminaire luminous flux to 50 % by switching off one control phase.

...LRA... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50 % for a time period of 7 hours (-2 h/+5 h), centred on the illuminated time period which is redefined on a daily basis.



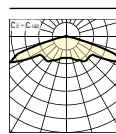
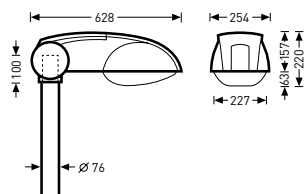
LED has become a standard light source. In addition to the specified MLT (Multi-Lens Technology) versions, TRILUX also offers other LED systems within the Lumega series. Among others, project solutions with LED modules complying with Zhaga specifications have been designed. Please contact us about your project solution.

The required control gear is accommodated in an electrical block that is removable without tools. The serviceable assembly has electrical plug connections and mechanical adjustment.

Luminaire inclination is adjustable in 5° steps from 0° to 25°.



Post-top and bracket-mounted luminaires



9701/LED1800nw ET

Safety class II

Protection rating IP66

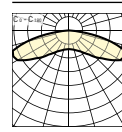
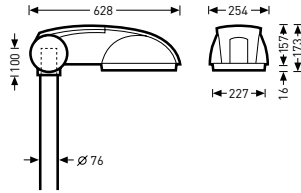
Mounting height 4-6 m



Reference	TOC	...ET ...40	...E ...04	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
9701/LED1800nw...	59 017...	...40	-	-	LED 1500 lm	20 W	8.0
9701/LED3000nw...	59 968...	...40	-	-	LED 2500 lm	34 W	8.0
9701/35HIT-CE...	58 624...	-	-	...02	1 x HIT-CE 35		8.6
9701/45HIT-CE/OD...	58 622...	-	...04	-	1 x HIT-CE/OD 45		8.2
9701/50-70HST... ¹⁾	58 617...	-	-	...02	1 x HST 50/70		9.4
9701/60HIT-CE/OD...	58 623...	-	...04	-	1 x HIT-CE/OD 60		8.2
9701/70HIT-CE...	58 625...	-	-	...02	1 x HIT-CE 70		8.8
9701/TCT26/32/42...	58 620...	-	...04	-	1 x TC-T 26/32/42		8.0
9701R/50-70HST... ¹⁾	58 919...	-	-	...02	1 x HST 50/70		9.6
9702/TCL18...	58 621...	-	...04	-	2 x TC-L 18		8.0
With power reduction (LR)							
9701LR/LED3000nw...	59 969...	...40	-	-	LED 2500 lm	35 W	8.1
9701LR/50HST...	58 618...	-	-	...02	1 x HST 50		9.3
9701LR/70HST...	58 619...	-	-	...02	1 x HST 70		9.5

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Post-top and bracket-mounted luminaires with flat cover (SG)



9701SG-AB/LED2000/3000/4500nw ET

Safety class	II
Protection rating	IP66
Mounting height	4-6 m



Reference	TOC	...ET ...40	...E ...04	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
9701SG-AB/LED2000/3000/4500nw... ¹⁾	61 063...	...40	-	-	LED 2000/3000/4400 lm	22/33/53 W	10.4
9701SG-AB/LED2000/3000ww... ¹⁾	61 066...	...40	-	-	LED 2000/3000 lm	25/41 W	10.4
9701SG-AB/LED2000nw...	61 060...	...40	-	-	LED 2000 lm	22 W	10.4
9701SG-AB/LED2000ww...	61 064...	...40	-	-	LED 2000 lm	25 W	10.4
9701SG-AB/LED3000nw...	61 061...	...40	-	-	LED 3000 lm	33 W	10.4
9701SG-AB/LED3000ww...	61 065...	...40	-	-	LED 3000 lm	41 W	10.4
9701SG-AB/LED4500nw...	61 062...	...40	-	-	LED 4400 lm	53 W	10.4
9702SG/TCL18...	58 612...	-	...04	-	2 x TC-L 18		8.6
9701SG/LED1800nw...	59 018...	...40	-	-	LED 1400 lm	20 W	8.6
9701SG/LED3000nw...	59 970...	...40	-	-	LED 2300 lm	34 W	8.6
9701SG/35HIT-CE...	58 615...	-	-	...02	1 x HIT-CE 35		9.2
9701SG/45HIT-CE/OD...	58 613...	-	...04	-	1 x HIT-CE/OD 45		8.8
9701SG/50-70HST... ¹⁾	58 608...	-	-	...02	1 x HST 50/70		10.0
9701SG/60HIT-CE/OD...	58 614...	-	...04	-	1 x HIT-CE/OD 60		8.8
9701SG/70HIT-CE...	58 616...	-	-	...02	1 x HIT-CE 70		9.4
9701SG/TCT26/32/42...	58 611...	-	...04	-	1 x TC-T 26/32/42		8.6
With power reduction (LR)							
9701LR-SG-AB/LED2000/3000/4500nw... ¹⁾	61 940...	...40	-	-	LED 2000/3000/4400 lm	23/34/54 W	9.7
9701LR-SG-AB/LED2000/3000ww... ¹⁾	61 941...	...40	-	-	LED 2000/3000 lm	26/42 W	9.7
9701LR-SG-AB/LED2000nw...	61 067...	...40	-	-	LED 2000 lm	23 W	10.5
9701LR-SG-AB/LED2000ww...	61 070...	...40	-	-	LED 2000 lm	26 W	10.5
9701LR-SG-AB/LED3000nw...	61 068...	...40	-	-	LED 3000 lm	34 W	10.5
9701LR-SG-AB/LED3000ww...	61 071...	...40	-	-	LED 3000 lm	42 W	10.5
9701LR-SG-AB/LED4500nw...	61 069...	...40	-	-	LED 4400 lm	54 W	10.5
9701LR-SG/LED3000nw...	59 971...	...40	-	-	LED 2300 lm	35 W	8.7
9701LR-SG/50HST...	58 609...	-	-	...02	1 x HST 50		9.9
9701LR-SG/70HST...	58 610...	-	-	...02	1 x HST 70		10.1
With intelligent power reduction (LRA)							
9701LRA-SG-AB/LED2000/3000/4500nw... ¹⁾	61 955...	...40	-	-	LED 2000/3000/4400 lm	23/35/54 W	9.7
9701LRA-SG-AB/LED2000/3000ww... ¹⁾	61 954...	...40	-	-	LED 2000/3000 lm	26/42 W	9.7
9701LRA-SG-AB/LED2000nw...	61 072...	...40	-	-	LED 2000 lm	24 W	10.6
9701LRA-SG-AB/LED2000ww...	61 075...	...40	-	-	LED 2000 lm	26 W	10.6
9701LRA-SG-AB/LED3000nw...	61 073...	...40	-	-	LED 3000 lm	34 W	10.6
9701LRA-SG-AB/LED3000ww...	61 076...	...40	-	-	LED 3000 lm	42 W	10.6
9701LRA-SG-AB/LED4500nw...	61 074...	...40	-	-	LED 4400 lm	54 W	10.6

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Post mounting elements



Reference	TOC	Accessory description	=kg
09900/2/102-108	22 248 00	Twin arm-bracket, galvanised	7.8
09900/2/76	22 249 00	Twin arm-bracket, galvanised	7.6
09900/3/102-108	22 250 00	Triple arm-bracket, galvanised	10.4
09900/3/76	22 251 00	Triple arm-bracket, galvanised	10.2
09900/4/102-108	22 252 00	Post mounting element, 4-headed, galvanised	13.1
09900/4/76	22 253 00	Post mounting element, 4-headed, galvanised	12.9
09900/H/102-108	22 254 00	Post mounting element, 4-headed H, galvanised	18.7
09900/H/76	43 791 00	Post mounting element, 4-headed H, galvanised	18.5

Corner and post fixings

Reference	TOC	Accessory description	=kg
0803 EMB/100-42	29 273 00	Corner and post fixing, supports \varnothing 42 mm x 100 mm, inclination angle 15°	1.5

Wall mounting bracket

Reference	TOC	Accessory description	=kg
0803 WB/100-42	29 277 00	Wall mounting bracket, supports \varnothing 42 mm x 100 mm, inclination angle 15°	1.2

Decorative post mounting elements



Reference	TOC	Accessory description	=kg
09700 DM/1/76-II	49 657 00	Decorative post mounting element, single	14.0
09700 DM/2/76/180°-II	49 658 00	Decorative post mounting element, twin, 180°	21.0
09700 DM/2/76/90°-II	49 672 00	Decorative post mounting element, twin, 90°	22.8
09700 DM/3/76-II	49 673 00	Decorative post mounting element, triple	30.4

Decorative wall brackets

Reference	TOC	Accessory description	≈kg
09700 DWB	49 663 00	Decorative wall bracket	14.0

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/42	22 232 00	Reduction piece, for post spigot Ø 42 mm	0.2
0970/48	22 233 00	Reduction piece, for post spigot Ø 48 mm	0.1
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

Post-top and bracket-mounted luminaires



Lumega 700 MLT provides effective and efficient lighting of streets and walkways. Equipped with „Multi-Lens-Technology (MLT)“, the light is efficiently guided onto the surface to be illuminated via computer-optimised single lenses. A total of 48 lens systems achieve luminaire luminous flux levels ranging between 5000 and 9700 lm.

Safe: Excellent illumination along the entire road, with variable installation locations including pavements, reduces the risk of accidents.

Uncomplicated: Installation, maintenance and upgrading of the luminaire is child's play due to intelligent construction.

Robust: High quality materials and high IP66 protection rating mean a long service life.

Versatile: Wide application spectrum via optimal light guidance and diverse luminaire luminous flux levels.

Future-proof: The modular design means upgrading to later, more efficient LED generations is easy.

Applications

Traffic roads, municipal roads, collection roads, residential roads, low-traffic roads, paths in parks and green areas, works roads, storage locations, container areas, residential facilities, cycle paths, stairs, access areas, crossroads, traffic roundabouts, car parks, cross country ski courses.

Mounting type

Post-top and bracket-mounted luminaire for spigot Ø 76 mm.

Inclination angle can be set for post-top mounting 0°...25°, for bracket-mounting 0°...15°.

Optical systems

Optical system of highly specular anodised aluminium. With asymmetrical wide light intensity distribution.

...**SG-AB/LED**... Optical system with Multi-Lens Technology. Consists of highly efficient, UV and temperature-resistant lens systems. With asymmetrical wide light intensity distribution.

LED system

...**SG-AB/LED**... LED module consisting of die-cast aluminium housing with integrated LEDs and optical systems. With 48 high performance LEDs.

LED degradation L80, LED mortality B10, service life 80,000 operating hours, colour rendering index Ra > 70. Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Luminaire body of die-cast aluminium, bi-colour: light grey RAL 7035 and anthracite grey RAL 7016, powder-coated, highly weather resistant.

Diffuser of highly impact-resistant, clear PMMA.

Can be swung downwards and unhooked without tools.

Windage area $F_w = 0.137 \text{ m}^2$.

Diffuser of highly impact-resistant, clear PMMA. Can be swung downwards and unhooked without tools. Windage area $F_w = 0.137 \text{ m}^2$.

...**SG**... Flat cover of heat-treated, non-laminated safety glass, enclosed in die-cast frame. Windage area $F_w = 0.116 \text{ m}^2$.

...**SG-AB/LED**... With sealed clear cover of PMMA. Windage area $F_w = 0.116 \text{ m}^2$.

Electrical version

Electrical block containing all electric components accessible from above, can be replaced without tools. 3-pole connection terminal to 2.5 mm². M20 cable gland as strain relief for cable diameter 6 mm to 12 mm. Connection compartment opened without tools via large, easy-to-handle lever catches.

...**K**... With inductive ballast, parallel-compensated.

...**E**... With electronic ballast.

...**ET**... With electronic transformer, switchable.

Supplementary equipment

...**LR**... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

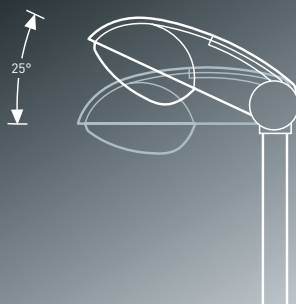
...**LRA**... With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50% for a time period of 7 hours (-2 h/+5 h), centred on the illuminated time period which is redefined on a daily basis.



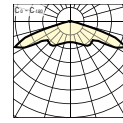
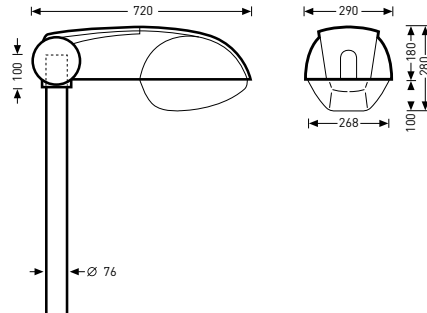
The required control gear is accommodated in an electrical block that is removable without tools. The serviceable assembly has electrical plug connections and mechanical adjustment.

Luminaire inclination is adjustable in 5° steps from 0° to 25°.

The exchangeable LED module unites various functions. The die-cast aluminium housing ensures optimal thermal management and thus a long service life for the LEDs. The 48 high power LEDs each have their own lens system to ensure optimal distribution of light. The sealed flat cover not only prevents stray light being emitted into the night sky but also contributes to compliance with the high IP66 protection rating.



Post-top and bracket-mounted luminaires



9711/LED4500nw ET

Safety class	II
Protection rating	IP66
Mounting height	5-8 m

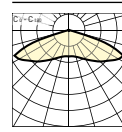
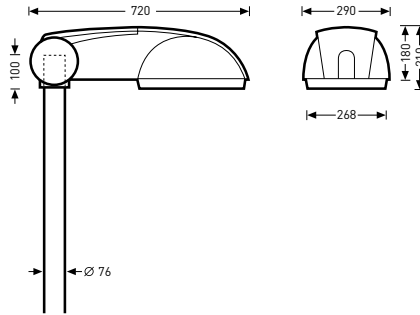


Reference	TOC	...ET ...40	...E ...04	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
9711/LED4500nw...	59 915...	...40	-	-	LED 4000 lm	50 W	13.1
9711/100-150HST... ¹⁾	13 615...	-	-	...02	1 x HST 100/150		13.8
9711/100HSE...	13 616...	-	-	...02	1 x HSE 100		12.8
9711/45HIT-CE/OD...	58 323...	-	...04	-	1 x HIT-CE/OD 45		15.2
9711/50-70HSE-E... ¹⁾²⁾	13 619...	-	-	...02	1 x HSE-E 50/70		12.2
9711/50-70HST... ¹⁾	13 620...	-	-	...02	1 x HST 50/70		12.2
9711/60HIT-CE/OD...	52 499...	-	...04	-	1 x HIT-CE/OD 60		12.7
9711/TCT26/32/42...	15 243...	-	...04	-	1 x TC-T 26/32/42		11.1
9711FÜR/100-150HST... ¹⁾	13 625...	-	-	...02	1 x HST 100/150		13.8
9711LR/50-70HST... ¹⁾	13 644...	-	-	...02	1 x HST 50/70		12.6
9712/TCL18-24...	15 289...	-	...04	-	2 x TC-L 18/24		11.6
With power reduction (LR)							
9711LR/LED4500nw...	59 966...	...40	-	-	LED 4000 lm	50 W	13.3
9711LR/100HSE...	13 626...	-	-	...02	1 x HSE 100		13.3
9711LR/100HST...	13 627...	-	-	...02	1 x HST 100		13.3
9711LR/150HST...	13 629...	-	-	...02	1 x HST 150		13.8
9711LR/70HSE-E... ²⁾	13 632...	-	-	...02	1 x HSE-E 70		12.7
9711LR/70HST...	13 633...	-	-	...02	1 x HST 70		12.7

¹⁾ Ballast can be reconnected, factory-preset to the lower level

²⁾ Lamp for external ignition

Post-top and bracket-mounted luminaires with flat cover (SG)



9711SG-AB/LED 5000/6500/8000nw ET

Safety class II

Protection rating IP66

Mounting height 5-8 m

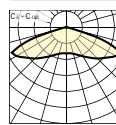


Reference	TOC	...ET ...40	...E ...04	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
9711SG-AB/LED 5000/6500/8000nw... ¹⁾	60 970...	...40	-	-	LED 5000/6600/8050 lm	49/66/85 W	12.0
9711SG-AB/LED 5000nw...	60 608...	...40	-	-	LED 5000 lm	49 W	11.7
9711SG-AB/LED 6500nw...	60 607...	...40	-	-	LED 6600 lm	66 W	11.7
9711SG-AB/LED 8000nw...	60 606...	...40	-	-	LED 8050 lm	85 W	11.7
9711 SG-AB/LED 9700nw...	63 090...	...40	-	-	LED 9700 lm	110 W	11.7
9711SG/LED4500nw...	59 916...	...40	-	-	LED 3400 lm	50 W	13.6
9711SG/100-150HST... ¹⁾	13 645...	-	-	...02	1 x HST 100/150		13.8
9711SG/100HSE...	13 646...	-	-	...02	1 x HSE 100		13.3
9711SG/45HIT-CE/OD...	58 327...	-	...04	-	1 x HIT-CE/OD 45		15.7
9711SG/50-70HSE-E... ¹⁾²⁾	13 649...	-	-	...02	1 x HSE-E 50/70		12.7
9711SG/50-70HST... ¹⁾	13 650...	-	-	...02	1 x HST 50/70		12.7
9711SG/60HIT-CE/OD...	52 500...	-	...04	-	1 x HIT-CE/OD 60		12.9
9712SG/TCL18-24...	13 655...	-	...04	-	2 x TC-L 18/24		12.1
With power reduction (LR)							
9711LR-SG-AB/LED 5000/6500/8000nw... ¹⁾	61 938...	...40	-	-	LED 5000/6600/8050 lm	50/67/86 W	12.0
9711LR-SG-AB/LED 5000nw...	60 971...	...40	-	-	LED 5000 lm	50 W	12.1
9711LR-SG-AB/LED 6500nw...	60 972...	...40	-	-	LED 6600 lm	67 W	12.1
9711LR-SG-AB/LED 8000nw...	60 973...	...40	-	-	LED 8050 lm	86 W	12.1
9711 LR-SG-AB/LED 9700nw...	63 091...	...40	-	-	LED 9700 lm	111 W	12.1
9711LR-SG/100HSE...	13 635...	-	-	...02	1 x HSE 100		13.8
9711LR-SG/100HST...	13 636...	-	-	...02	1 x HST 100		13.8
9711LR-SG/150HST...	13 638...	-	-	...02	1 x HST 150		14.3
9711LR-SG/70HSE-E... ²⁾	13 641...	-	-	...02	1 x HSE-E 70		13.2
9711LR-SG/70HST...	13 642...	-	-	...02	1 x HST 70		13.2
9711LR-SG/LED 4500nw...	59 967...	...40	-	-	LED 3400 lm	51 W	13.8
With intelligent power reduction (LRA)							
9711LRA-SG-AB/LED 5000/6500/8000nw... ¹⁾	61 939...	...40	-	-	LED 5000/6600/8050 lm	50/67/86 W	12.0
9711LRA-SG-AB/LED 5000nw...	60 974...	...40	-	-	LED 5000 lm	50 W	12.2
9711LRA-SG-AB/LED 6500nw...	60 975...	...40	-	-	LED 6600 lm	67 W	12.2
9711LRA-SG-AB/LED 8000nw...	60 976...	...40	-	-	LED 8050 lm	86 W	12.2
9711LRA-SG-AB/LED 9700nw...	63 092...	...40	-	-	LED 9700 lm	111 W	12.2

¹⁾ Ballast can be reconnected, factory-preset to the lower level

²⁾ Lamp for external ignition

Post-top and bracket-mounted luminaires with flat cover (SG), refurbishment sets (US)



US 9711SG-AB/LED 5000/6500/8000nw ET

Safety class II

Protection rating IP66

Mounting height 5-8 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
US 9711SG-AB/LED 5000/6500/8000nw... ¹⁾	60 977...	...40	LED 5000/6600/8050 lm	49/66/85 W	4.3
US 9711SG-AB/LED 5000nw...	60 611...	...40	LED 5000 lm	49 W	4.3
US 9711SG-AB/LED 6500nw...	60 610...	...40	LED 6600 lm	66 W	4.3
US 9711SG-AB/LED 8000nw...	60 609...	...40	LED 8050 lm	85 W	4.3
US 9711SG-AB/LED 9700nw...	63 096...	...40	LED 9700 lm	110 W	4.3
With power reduction [LR]					
US 9711LR-SG-AB/LED 5000nw...	60 978...	...40	LED 5000 lm	50 W	4.4
US 9711LR-SG-AB/LED 6500nw...	60 979...	...40	LED 6600 lm	67 W	4.4
US 9711LR-SG-AB/LED 8000nw...	60 980...	...40	LED 8050 lm	86 W	4.4
US 9711LR-SG-AB/LED 9700nw...	63 097...	...40	LED 9700 lm	111 W	4.3
With intelligent power reduction [LRA]					
US 9711LRA-SG-AB/LED 5000nw...	60 981...	...40	LED 5000 lm	50 W	4.5
US 9711LRA-SG-AB/LED 6500nw...	60 982...	...40	LED 6600 lm	67 W	4.5
US 9711LRA-SG-AB/LED 8000nw...	60 983...	...40	LED 8050 lm	86 W	4.5
US 9711 LRA-SG-AB/LED 9700nw...	63 098...	...40	LED 9700 lm	111 W	4.3

¹⁾Ballast can be reconnected, factory-preset to the lower level

Post mounting elements



Reference	TOC	Accessory description	≈kg
09900/2/102-108	22 248 00	Twin arm-bracket, galvanised	7.8
09900/2/76	22 249 00	Twin arm-bracket, galvanised	7.6
09900/3/102-108	22 250 00	Triple arm-bracket, galvanised	10.4
09900/3/76	22 251 00	Triple arm-bracket, galvanised	10.2
09900/4/102-108	22 252 00	Post mounting element, 4-headed, galvanised	13.1
09900/4/76	22 253 00	Post mounting element, 4-headed, galvanised	12.9
09900/H/102-108	22 254 00	Post mounting element, 4-headed H, galvanised	18.7
09900/H/76	43 791 00	Post mounting element, 4-headed H, galvanised	18.5

Corner and post fixings

Reference	TOC	Accessory description	≈kg
0803 EMB/100-42	29 273 00	Corner and post fixing, supports Ø 42 mm x 100 mm, inclination angle 15°	1.5

¹⁾ Reduction piece 0970/42 additionally required

Wall mountings

Reference	TOC	Accessory description	≈kg
0803 WB/100-42	29 277 00	Wall mounting, supports Ø 42 mm x 100 mm, inclination angle 15°	1.2

¹⁾ Reduction piece 0970/42 additionally required

Decorative post mounting elements



Reference	TOC	Accessory description	≈kg
09700 DM/1/76-II	49 657 00	Decorative post mounting element, single	14.0
09700 DM/2/76/180°-II	49 658 00	Decorative post mounting element, twin, 180°	21.0
09700 DM/2/76/90°-II	49 672 00	Decorative post mounting element, twin, 90°	22.8
09700 DM/3/76-II	49 673 00	Decorative post mounting element, triple	30.4

Decorative wall brackets

Reference	TOC	Accessory description	≈kg
09700 DWB	49 663 00	Decorative wall bracket	14.0

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/42	22 232 00	Reduction piece, for post spigot Ø 42 mm	0.2
0970/48	22 233 00	Reduction piece, for post spigot Ø 48 mm	0.1
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

Post-top and bracket-mounted luminaires



Applications

Traffic roads, urban highways, main roads, residential roads, crossroads, traffic roundabouts, building sites, works roads, harbour facilities, shipping facilities, storage locations, container areas, power stations.

Mounting type

Post-top and bracket-mounted luminaire for spigot \varnothing 76 mm.

Inclination angle can be set for post-top mounting 0° ... 25° , for bracket-mounting 0° ... 15° .

Optical systems

Optical system of highly specular anodised aluminium, adjustable. With asymmetrical wide light intensity distribution.

Luminaire body

Luminaire body of die-cast aluminium, bi-colour: light grey RAL 7035 and anthracite grey RAL 7016, powder-coated, highly weather resistant.

Diffuser of highly impact-resistant, clear PMMA.

Can be swung downwards and unhooked without tools.

Windage area $F_w = 0.187 \text{ m}^2$.

...**PC**... Lower diffuser of PC, clear.

Windage area $F_w = 0.187 \text{ m}^2$.

...**SG**... Flat cover of heat-treated, non-laminated safety glass, enclosed in die-cast frame. Windage area $F_w = 0.169 \text{ m}^2$.

Electrical version

Electrical block containing all electric components accessible from above, can be replaced without tools. 3-pole connection terminal to 2.5 mm^2 . M20 cable gland as strain relief for cable diameter 6 mm to 12 mm. Connection compartment opened without tools via large, easy-to-handle lever catches.

...**K**... With inductive ballast, parallel-compensated.

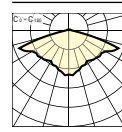
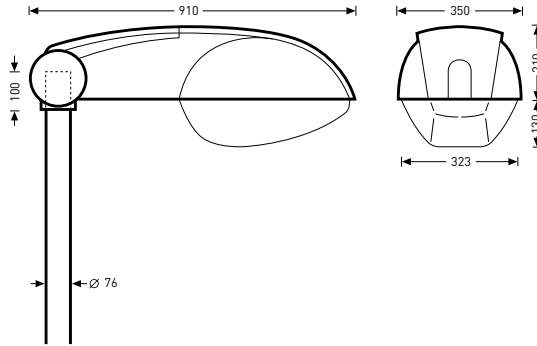
...**KK**... With inductive ballast, parallel-compensated, two circuits.

...**E**... With electronic ballast.

Supplementary equipment

...**LR**... With power reduction of luminaire luminous flux to 50% by switching off one control phase.

Post-top and bracket-mounted luminaires



9721/140HIT-CE/OD E

Safety class	II
Protection rating	IP66
Mounting height	8-12 m

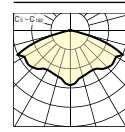
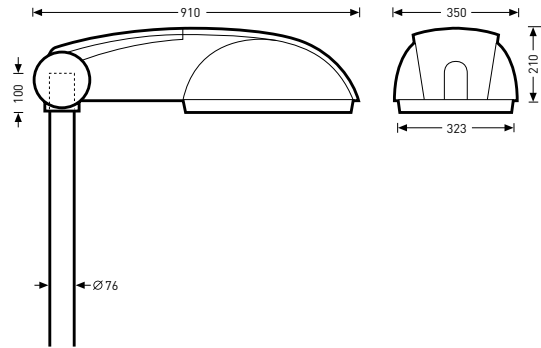


Reference	TOC	...E ...04	...K ...02	...KK ...09	Lamps / Luminaire luminous flux	≈kg
9721/140HIT-CE/OD...	52 501...	...04	-	-	1 x HIT-CE/OD 140	14.8
9721/150HSE...	13 657...	-	...02	-	1 x HSE 150	16.6
9721/150HST...	13 658...	-	...02	-	1 x HST 150	16.6
9721/250HSE...	13 660...	-	...02	-	1 x HSE 250	17.9
9721/250HST...	13 661...	-	...02	-	1 x HST 250	17.9
9721/400HSE PC...	13 663...	-	...02	-	1 x HSE 400	20.1
9721/400HST PC...	13 664...	-	...02	-	1 x HST 400	20.1
9722/100HSE...	13 689...	-	-	...09	2 x HSE 100	18.3
9722/100HST...	13 690...	-	-	...09	2 x HST 100	18.3
9722/50-70HSE-E... ¹⁾ 2)	13 693...	-	-	...09	2 x HSE-E 50/70	17.9
9722/50-70HST... ²⁾	13 695...	-	-	...09	2 x HST 50/70	17.9
With power reduction (LR)						
9721LR/150HSE...	13 665...	-	...02	-	1 x HSE 150	17.2
9721LR/150HST...	13 666...	-	...02	-	1 x HST 150	17.2
9721LR/250HSE...	13 668...	-	...02	-	1 x HSE 250	19.6
9721LR/250HST...	13 669...	-	...02	-	1 x HST 250	19.6
9721LR/400HSE PC...	13 671...	-	...02	-	1 x HSE 400	20.7
9721LR/400HST PC...	13 672...	-	...02	-	1 x HST 400	20.7

¹⁾ Lamp for external ignition

²⁾ Ballast can be reconnected, factory-preset to the lower level

Post-top and bracket-mounted luminaires with flat cover (SG)



9721SG/140HIT-CE/OD E

Safety class	II
Protection rating	IP66
Mounting height	8-12 m



Reference	TOC	...E	...K	...KK	Lamps / Luminaire luminous flux	≈kg
		...04	...02	...09		
9721SG/140HIT-CE/OD...	52 502...	...04	-	-	1 x HIT-CE/OD 140	15.0
9721SG/150HSE...	13 681...	-	...02	-	1 x HSE 150	17.5
9721SG/150HST...	13 682...	-	...02	-	1 x HST 150	17.5
9721SG/250HSE...	13 684...	-	...02	-	1 x HSE 250	18.8
9721SG/250HST...	13 685...	-	...02	-	1 x HST 250	18.8
9721SG/400HSE...	13 687...	-	...02	-	1 x HSE 400	21.0
9721SG/400HST...	13 688...	-	...02	-	1 x HST 400	21.0
9722SG/100HSE...	13 698...	-	-	...09	2 x HSE 100	19.2
9722SG/100HST...	13 699...	-	-	...09	2 x HST 100	19.2
9722SG/50-70HSE-E... ¹⁾²⁾	13 702...	-	-	...09	2 x HSE-E 50/70	18.8
9722SG/50-70HST... ²⁾	13 703...	-	-	...09	2 x HST 50/70	18.8
With power reduction (LR)						
9721LR-SG/150HSE...	13 673...	-	...02	-	1 x HSE 150	18.1
9721LR-SG/150HST...	13 674...	-	...02	-	1 x HST 150	18.1
9721LR-SG/250HSE...	13 676...	-	...02	-	1 x HSE 250	20.5
9721LR-SG/250HST...	13 677...	-	...02	-	1 x HST 250	20.5
9721LR-SG/400HSE...	13 679...	-	...02	-	1 x HSE 400	21.6
9721LR-SG/400HST...	13 680...	-	...02	-	1 x HST 400	21.6

¹⁾ Lamp for external ignition

²⁾ Ballast can be reconnected, factory-preset to the lower level

Post mounting elements



Reference	TOC	Accessory description	≈kg
09900/2/102-108	22 248 00	Twin arm-bracket, galvanised	7.8
09900/2/76	22 249 00	Twin arm-bracket, galvanised	7.6
09900/3/102-108	22 250 00	Triple arm-bracket, galvanised	10.4
09900/3/76	22 251 00	Triple arm-bracket, galvanised	10.2
09900/4/102-108	22 252 00	Post mounting element, 4-headed, galvanised	13.1
09900/4/76	22 253 00	Post mounting element, 4-headed, galvanised	12.9
09900/H/102-108	22 254 00	Post mounting element, 4-headed H, galvanised	18.7
09900/H/76	43 791 00	Post mounting element, 4-headed H, galvanised	18.5

Corner and post fixings

Reference	TOC	Accessory description	≈kg
0803 EMB/100-42	29 273 00	Corner and post fixing, supports Ø 42 mm x 100 mm, inclination angle 15°	1.5

Wall mountings

Reference	TOC	Accessory description	≈kg
0803 WB/100-42	29 277 00	Wall mounting, supports Ø 42 mm x 100 mm, inclination angle 15°	1.2

Decorative post mounting elements



Reference	TOC	Accessory description	≈kg
09700 DM/1/76-II	49 657 00	Decorative post mounting element, single	14.0
09700 DM/2/76/180°-II	49 658 00	Decorative post mounting element, twin, 180°	21.0
09700 DM/2/76/90°-II	49 672 00	Decorative post mounting element, twin, 90°	22.8
09700 DM/3/76-II	49 673 00	Decorative post mounting element, triple	30.4

Decorative wall brackets

Reference	TOC	Accessory description	≈kg
09700 DWB	49 663 00	Decorative wall bracket	14.0

Reduction pieces

Reference	TOC	Accessory description	≈kg
0970/42	22 232 00	Reduction piece, for post spigot Ø 42 mm	0.2
0970/48	22 233 00	Reduction piece, for post spigot Ø 48 mm	0.1
0970/60	22 234 00	Reduction piece, for post spigot Ø 60 mm	0.1

Suspended luminaires



Applications

Traffic roads, urban highways, main roads, residential roads, crossroads, traffic roundabouts.

Mounting type

Suspended luminaire for mounting to catenary cables.

Optical systems

Optical system of highly specular anodised aluminium.

Luminaire body

Luminaire body of aluminium, deep-drawn, light grey colour similar to RAL 7035, highly weather resistant, powder-coated.
 Wire suspension of glass fibre-reinforced polyester for cradle with \varnothing 8 mm to \varnothing 12 mm. Can be rotated through axes and set up to 15° wire inclination.
 Fixing screws of stainless steel.
 Diffuser of highly impact-resistant, clear PMMA.
 Can be swung downwards and unhooked without tools.
 Secure fixing with lever catches of stainless steel.
 Windage area $F_w = 0.174 \text{ m}^2$.

Electrical version

Gear tray can be swung downwards and unhooked without tools.
 With 3-pole terminal to 2.5 mm².
 Cable gland Pg 16 for 10 mm to 14 mm cable diameters as cable strain relief. A blanking plug for possible through-wiring.
 ...K... With inductive ballast, parallel-compensated.
 ...KK... With inductive ballast, parallel-compensated, two circuits.

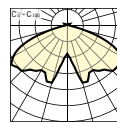
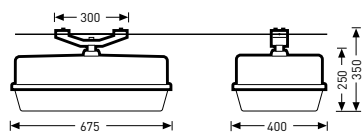
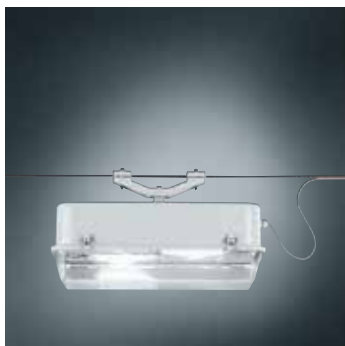


LED configurations can also be implemented as project solutions with the suspended wire luminaires. In addition to the 877... series for classic discharge lamps, TRILUX has also designed the 817... series with LED variants. Please contact us about your project solution.

LED systems with Multi-Lens Technology (MLT) emit application-oriented, wide light distribution. With luminaire luminous flux levels of up to 10,000 lm, highly efficient lighting systems with up to 90 lm/W are achieved.



Suspended luminaires



8771/100-150HST-II K

Safety class	II
Protection rating	IP54
Mounting height	8-10 m



Reference	TOC	...K ...02	...KK ...09	Lamps / Luminaire luminous flux	≈kg
8771/100-150HST-II... ¹⁾	13 100...	...02	-	1 x HST 100/150	13.8
8772/100-150HST-II... ¹⁾	13 101...	-	...09	2 x HST 100/150	16.0
8772/100HSE-II...	13 102...	-	...09	2 x HSE 100	16.0
8772/50-70HSE-E-II... ¹⁾²⁾	13 105...	-	...09	2 x HSE-E 50/70	14.8
8772/50-70HST-II... ¹⁾	13 106...	-	...09	2 x HST 50/70	14.8

¹⁾ Ballast can be reconnected, factory-preset to the lower level

²⁾ Lamp for external ignition

Post-top luminaires and wall luminaires

**Applications**

Municipal roads, collection roads, residential roads, low-traffic roads, pedestrian zones, paths in parks and green areas, residential facilities, stairs, access areas, car parks.

Mounting type

Post-top luminaire including post with single or twin configuration (M2).

...W /... Mounting of wall luminaire with die-cast aluminium mounting plate.

Optical systems

Optical system of anodised aluminium.

With asymmetrical wide light intensity distribution.

Luminaire body

Luminaire housing and post connection of die-cast aluminium. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant. Cover glass of flat, heat-treated, non-laminated safety glass, sealed in die-cast aluminium frame.

Cylindrical of galvanised, uncoated steel including bitumised underground support. Post with C-rail in door area for mounting of a junction box to be ordered separately.

...M2... In twin configuration.

...W /... Wall luminaire with welded wall plate of aluminium.

Symbol I... Windage area $F_w = 0.650 \text{ m}^2$.

Symbol I... **...M2...** Windage area $F_w = 0.760 \text{ m}^2$.

Electrical version

Electrical connection to 5-pole connection terminal to 4.0 mm^2 in area of post cap, without wiring.

...W /... Electrical connection to 3-pole plug connection to 2.5 mm^2 in luminaire housing.

...L... With inductive ballast.



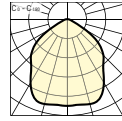
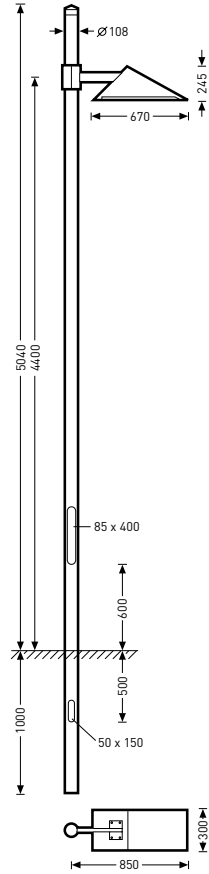
A luminaire based upon geometric principles. The Symbol – a prime example of the unique design language of Peter Zegers. With its matter-of-fact, geometrical style it enhances its surroundings as an arm luminaire or wall luminaire. The functionality of the Symbol is optimally accentuated as a road luminaire.

Symbol is available in either single-headed or twin-headed versions, thus expanding the application possibilities of this range.

In addition to the specified configurations, a direct distribution LED system as an MLT version (Multi-Lens Technology) can be integrated. High-efficiency, UV- and temperature-resistant lens systems in configurations of four are used here. Please contact us about your project solution.



Decorative post-top luminaires, including post with underground support



Symbol I 450/1x100HIE L 26

Safety class I

Protection rating

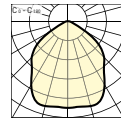
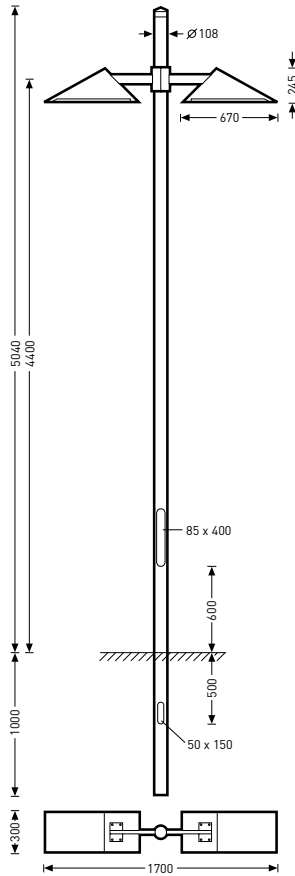
IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	=kg
Symbol I 450/1x100HIE...26	54 217...	...01	1 x HIE 100	72.0
Symbol I 450/1x150HIE...26	54 225...	...01	1 x HIE 150	72.0
Symbol I 450/1x150HSE...26	54 231...	...01	1 x HSE 150	72.0
Symbol I 450/1x70HIE...26	54 242...	...01	1 x HIE 70	71.4
Symbol I 450/1x70HSE-E...26 ¹⁾	54 246...	...01	1 x HSE-E 70	71.4
Symbol I 450/2xTCL36...26	54 273...	...01	2 x TC-L 36	72.4

¹⁾ Lamp with external ignitor

Decorative post-top luminaires, twin arrangement (M2), including post and underground support



Symbol I 450-M2/1x100HIE L 26

Safety class I

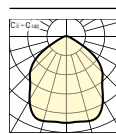
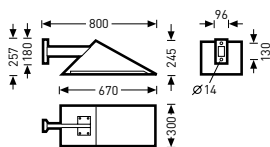
Protection rating IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Symbol I 450-M2/1x100HIE...26	54 285...	...01	2 x HIE 100	85.4
Symbol I 450-M2/1x150HIE...26	54 290...	...01	2 x HIE 150	85.4
Symbol I 450-M2/1x150HSE...26	54 295...	...01	2 x HSE 150	85.4
Symbol I 450-M2/1x70HIE...26	54 302...	...01	2 x HIE 70	84.2
Symbol I 450-M2/1x70HSE-E...26 ¹⁾	54 305...	...01	2 x HSE-E 70	84.2
Symbol I 450-M2/2xTCL36...26	54 323...	...01	4 x TC-L 36	86.2

¹⁾Lamp with external ignitor

Decorative wall luminaires



Symbol I W/1x100HIE L 26

Safety class

I

Protection rating

IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Symbol I W/1x100HIE...26	54 330...	...01	1 x HIE 100	14.0
Symbol I W/1x150HIE...26	54 342...	...01	1 x HIE 150	14.0
Symbol I W/1x150HSE...26	54 349...	...01	1 x HSE 150	14.0
Symbol I W/1x70HIE...26	54 359...	...01	1 x HIE 70	13.4
Symbol I W/1x70HSE-E...26 ¹¹	54 362...	...01	1 x HSE-E 70	13.4
Symbol I W/2xTCL36...26	54 407...	...01	2 x TC-L 36	14.0

¹¹ Lamp with external ignitor

Decorative ground-recessed luminaires



The luminaires of the attractive Altigo family are slender and appealing and can be installed flush into the ground, walls or ceilings. In such situations they set elegant accents with light. They have the flexibility to optimally integrate into their architectural surroundings and to fulfil a wide range of lighting tasks. They are optionally available with symmetric or asymmetric spot optics and are thus ideal for emphasising facades or objects. In terms of light colour as well, the luminaires fulfil almost any requirement.

Flexible: Optional use in the ground, on walls or ceilings, offers wide flexibility for design.

Tailor-made: The luminaires are optionally available with symmetric or asymmetric light distribution characteristic and white or coloured light.

Long-life: Maximum manufacturing quality and use of long-life materials ensure permanent value.

Simple and practical: The luminaire is fixed without tools into the mounting enclosure. Each module has the requisite disassembly key for easy removal.

Elegant: The luminaire appeals without flourishes, visible catches or covers.

Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, light around the house, accent lighting.

Mounting type

Ground-recessed luminaire for facade or effect lighting. On-site, a foundation suitable for the load with adequate drainage must be ensured.

Optical systems

Altigo.../LED... Basis version without optical system. Diffuse distribution cover of hardened glass. With R 10 anti-slipping.

Altigo...-AM/LED / -SM/LED... Optical system of high quality UV and temperature-resistant optical lens systems. Cover of hardened glass.

...AM... With asymmetrical medium-wide light intensity distribution.

...SM... With symmetric medium-wide light intensity distribution.

LED system

LED degradation L80, LED mortality B10, service life 50,000 operating hours.

...ww... Light colour warm white (ww), colour temperature 3000 K.

...LED-RGB... Light colours adjustable via separate control module.

Luminaire body

Luminaire body of extruded aluminium profile and die-cast aluminium components. Colour of luminaire body anthracite, similar to DB 703 with metal effect, highly weather resistant, powder-coated. Tool-free fixing of luminaire in luminaire housing (to be ordered separately) with stainless steel clips. Removal tool included. With flush-fitting cover and integral LED unit.

Mounting enclosure of weather-resistant extruded aluminium profile. With knockouts for cable feed and drainage.

With removable stabilisation cover.

For pressure loads up to 1000 kg. Driveover capacity at walking pace.

Electrical version

Electrical connection via supplied 3-pole connector (IP67), 2.5mm².

...RGB... 4-pole plug connection (IP67) to 1.5 mm².

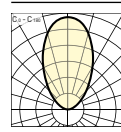
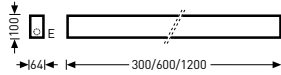
...ET... With electronic transformer, switchable.

...RGB... Further components to be ordered separately are required for operation.

Application note

Ground recessed luminaires must not be used in areas with stress loads from accelerating, braking and turning movements of vehicles.

Decorative ground-recessed luminaires



Altigo 1200/LED-RGB

Safety class

III

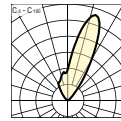
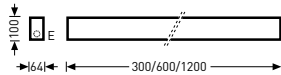
Protection rating

IP67



Reference	TOC	...ET	Requires further components	Lamps / Luminaire luminous flux	Connected load	≈kg
		...40	...50			
Altigo 1200/LED-RGB	60 225...	-	...50	LED 100 lm	43 W	4.0
Altigo 1200/LED ww...	60 224...	...40	-	LED 80 lm	13 W	4.0
Altigo 300/LED-RGB	60 213...	-	...50	LED 30 lm	10 W	1.1
Altigo 300/LED ww...	60 212...	...40	-	LED 20 lm	4.5 W	1.1
Altigo 600/LED-RGB	60 219...	-	...50	LED 60 lm	22 W	2.1
Altigo 600/LED ww...	60 218...	...40	-	LED 40 lm	7 W	2.1

Decorative ground recessed luminaires, asymmetric medium wide distribution (AM)



Altigo 1200-AM/LED-RGB

Safety class

III

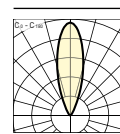
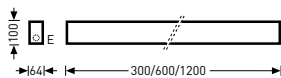
Protection rating

IP67



Reference	TOC	...ET	Requires further components	Lamps / Luminaire luminous flux	Connected load	≈kg
		...40	...50			
Altigo 1200-AM/LED-RGB	60 227...	-	...50	LED 700 lm	33 W	4.2
Altigo 1200-AM/LED ww...	60 226...	...40	-	LED 950 lm	40 W	4.2
Altigo 300-AM/LED-RGB	60 215...	-	...50	LED 200 lm	8 W	1.2
Altigo 300-AM/LED ww...	60 214...	...40	-	LED 200 lm	10 W	1.2
Altigo 600-AM/LED-RGB	60 221...	-	...50	LED 300 lm	16 W	2.2
Altigo 600-AM/LED ww...	60 220...	...40	-	LED 450 lm	20 W	2.2

Decorative ground recessed luminaires, symmetric medium wide distribution (SM)



Altigo 1200-SM/LED-RGB	
Safety class	III
Protection rating	IP67

Reference	TOC	...ET ...40	Requires further components ...50	Lamps / Luminaire luminous flux	Connected load	≈kg
Altigo 1200-SM/LED-RGB	60 229...	-	...50	LED 800 lm	33 W	4.2
Altigo 1200-SM/LED ww...	60 228...	...40	-	LED 1200 lm	40 W	4.2
Altigo 300-SM/LED-RGB	60 217...	-	...50	LED 250 lm	8 W	1.2
Altigo 300-SM/LED ww...	60 216...	...40	-	LED 300 lm	10 W	1.2
Altigo 600-SM/LED-RGB	60 223...	-	...50	LED 350 lm	16 W	2.2
Altigo 600-SM/LED ww...	60 222...	...40	-	LED 550 lm	20 W	2.2

Mounting housings

Reference	TOC	Accessory description	≈kg
Altigo BE 1200	60 234 00	Mounting housing for Altigo 1200..., with knockouts for cable feed and drainage	2.1
Altigo BE 300	60 232 00	Mounting housing for Altigo 300..., with knockouts for cable feed and drainage	0.6
Altigo BE 600	60 233 00	Mounting housing for Altigo 600..., with knockouts for cable feed and drainage	1.1

Power supply units

Reference	TOC	Accessory description	≈kg
ZET DMX150	60 270 00	DMX power supply unit 24V, 150W	2.5

Accessories

Reference	TOC	Accessory description	≈kg
Altigo ZBE LV	60 750 00	Straight connector set for mounting housing	0.1
Altigo ZFK	60 751 00	Recessed module mounting set with 2 replacement catches and 1 removal tool	0.1

Decorative bollard, ceiling and wall luminaires



The linear Altigo luminaire family sets elegant accents not only at ground level but also on walls and ceilings. The targeted light guidance of the symmetric and asymmetric optics ensures efficient path and facade lighting. For effect lighting, either warm white LED or colour-definable RGB LED modules are available. In evening hours the bollard luminaires from the Altigo luminaire family invite people to stay a while with their pleasant light. During the daytime they are an eye-catcher and emphasise the design of outdoor areas. They create the ideal link for a harmonious interplay of building and landscape architecture.

Efficient: The luminaires are outstandingly economic with low LED power consumption.

Elegant: The luminaire appeals without flourishes, visible catches or covers.

Flexible: Selection of mounting options in ground, to walls, on ceilings or as bollard luminaire enables a wide flexibility for design.

Simple, quick and secure: The luminaire is fixed without tools into the luminaire housing; each module has the requisite disassembly key for easy removal.

Long-life: Maximum manufacturing quality and use of long-life materials ensure permanent value.

Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, light around the house, accent lighting.

Mounting type

Altigo W... Mounting via integrated flange plate at front end for direct mounting to wall.

Altigo WT... Mounting via laterally integrated flange plate for direct mounting to wall.

Altigo D... Mounting directly to ceiling.

Altigo 50 / 80... Mounting via integrated baseplate for direct mounting to firm underground or with use of an underground support in the substrate to be ordered separately.

Optical systems

Optical system of high quality UV and temperature-resistant optical lens systems. Cover of hardened glass.

...AM... With asymmetrical medium-wide light intensity distribution.

...SM... With symmetric medium-wide light intensity distribution.

Altigo 50 / 80... With flush cover, diffuse distribution.

LED system

LED degradation L80, LED mortality B10, service life 50,000 operating hours.

Light colour warm white (ww), colour temperature 3000 K.

Luminaire body

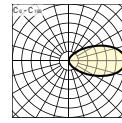
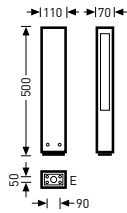
Luminaire body of extruded aluminium profile and die-cast aluminium components. Colour of luminaire body anthracite, similar to DB 703 with metal effect, highly weather resistant, powder-coated. Removal tool included. Tool-free fixing of luminaire in mounting enclosure with stainless steel clips. With flush-fitting cover and integral LED unit.

Electrical version

Electrical connection via supplied 3-pole connector (IP67), 2.5mm².

...ET... With electronic transformer, switchable.

Decorative bollard luminaires



Altigo 50/LED ww ET

Safety class

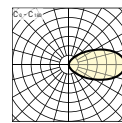
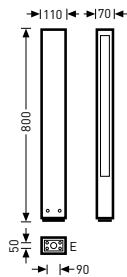
Protection rating

IP67



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Altigo 50/LED ww...	60 242...	...40	LED 20 lm	4.5 W	3.5

Decorative bollard luminaires



Altigo 80/LED ww ET

Safety class

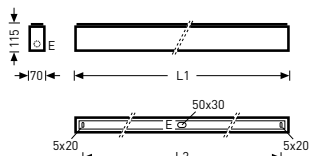
Protection rating

IP67

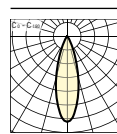


Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Altigo 80/LED ww...	60 243...	...40	LED 40 lm	7 W	5.5

Decorative ceiling luminaires



L1: 340/Altigo D 300..., 640/Altigo D 600..., 1240/Altigo D 1200...
 L2: 270/Altigo D 300..., 570/Altigo D 600..., 1170/Altigo D 1200...



Altigo D 1200-SM/LED ww ET

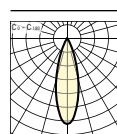
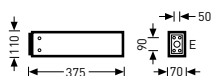
Safety class I

Protection rating IP67



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Altigo D 1200-SM/LED ww...	60 238...	...40	LED 1200 lm	40 W	10.0
Altigo D 300-SM/LED ww...	60 236...	...40	LED 250 lm	10 W	3.0
Altigo D 600-SM/LED ww...	60 237...	...40	LED 550 lm	20 W	5.3

Decorative wall luminaires



Altigo W 300-SM/LED ww ET

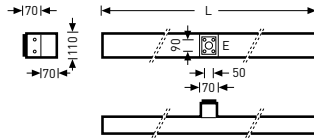
Safety class I

Protection rating IP67

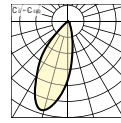


Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Altigo W 300-SM/LED ww...	60 239...	...40	LED 250 lm	10 W	3.0

Decorative wall luminaires



L: 340/Altigo WT 300..., 640/Altigo WT 600...



Altigo WT 300-AM/LED ww ET

Safety class

Protection rating

IP67



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Altigo WT 300-AM/LED ww...	60 240...	...40	LED 200 lm	10 W	3.5
Altigo WT 600-AM/LED ww...	60 241...	...40	LED 450 lm	20 W	5.6

Underground supports

Reference	TOC	Accessory description	≈kg
Altigo E	60 244 00	Underground support, galvanised	2.3

Bollard and wall luminaires



Sophisticated facade illumination is achieved by Skeo wall luminaires in two designs. The cylindrical construction unites the timeless form of a design classic with the latest LED technology. The discreet light contour in the form of an equilateral triangle at the luminaire end is a highlight of the prismatic wall luminaire. Differing beam characteristics and the option of specifying either single-sided or direct-indirect light emission offers wide design flexibility. The bollard luminaire catches the eye with its triangular form as an accenting element for architecturally sophisticated outdoor applications.

Economic: With energy consumption Skeo is very modest and yet still supplies homogeneous light onto all paths with optimised optics.

Diverse: Two different construction forms, differing beam characteristics and the option of specifying either single-sided or direct-indirect light emission offers wide design flexibility.

Rapid: Mounting time of the luminaires is reduced to a minimum by the functional design of the mounting and the electrical connection.

Robust: The precise matching of luminaire components means the luminaire is suitable for long-term use in outdoor applications.

Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, light around the house.

Mounting type

Skeo-P 100... Mounting via fastening of flange plate sufficiently firm underground or with use of an underground support in the substrate to be ordered separately.

...W... Mounting of wall luminaire with die-cast aluminium mounting plate.

Optical systems

...W... With rotationally symmetrical wide light distribution.

...D... With one light emission aperture. Beam angle can be adjusted by varying the mounting direction of the wall plate.

...DI... With two light emission apertures. Variable beam distribution by tilting the illumination surface on-site. Light emission above or below the luminaire, beam angle 9° and 30°, angle to facade is adjustable.

Skeo-P 100... With symmetric medium-wide light intensity distribution.

LED system

With one LED module.

...DI... With two LED modules.

LED degradation L80, LED mortality B10, service life 50,000 operating hours, colour rendering index Ra > 80. Light colour warm white (ww), colour temperature 3000 K.

Luminaire body

Luminaire housing of aluminium profile, end elements of die-cast aluminium. With housing screws of stainless steel. Luminaire housing highly weather resistant, powder-coated. Cover of light emission aperture of non-laminated safety glass.

Colour anthracite, similar to DB 703.

Skeo-C... Luminaire body with cylindrical design.

Skeo-P... Luminaire body with prismatic design.

Electrical version

Connection via connection terminals on mounting plate and cable-free blade contacts between mounting plate and luminaire body.

...ET... With electronic transformer, switchable.



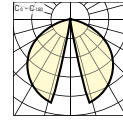
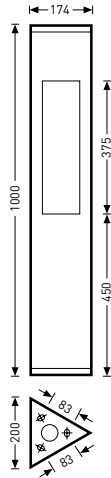
A highly simple luminaire design, open sides for light emission and the flush die-cast parts are the foundation for the discreet design.



Light emission surface(s) frosted on sides for a soft light contour.

Plug & play: Simple mounting via connection terminals on mounting plate and cable-free blade contacts between mounting plate and luminaire body.



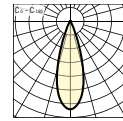
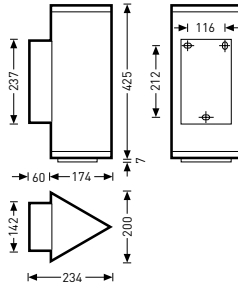
Decorative prismatic bollard luminaires





Skeo-P 100 RM/700-830 ET 26	
Safety class	II
Protection rating	IP65
 	

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Skeo-P 100 RM/700-830...26	61 159...	...40	LED 700 lm	15 W	7.4

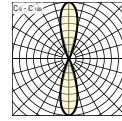
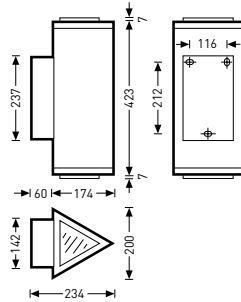
Decorative cylindrical bollard luminaires, direct distribution (D)



Skeo-P W-D RB/800-830 ET 26	
Safety class	I
Protection rating	IP65
 	

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Skeo-P W-D RB/800-830...26	61 155...	...40	LED 800 lm	15 W	5.5

Decorative prismatic wall luminaires, direct/indirect distribution (DI)



Skeo-P W-DI RB-RB/1600-830 ET 26

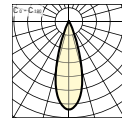
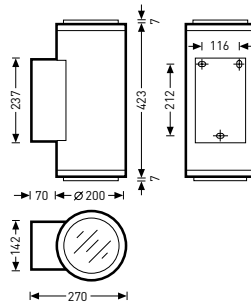
Safety class I

Protection rating IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Skeo-P W-DI RB-RB/1600-830...26	61 157...	...40	LED 1700 lm	30 W	6.4
Skeo-P W-DI RB-RT/1700-830...26	61 158...	...40	LED 1700 lm	30 W	6.4
Skeo-P W-DI RT-RT/1700-830...26	61 156...	...40	LED 1700 lm	30 W	5.5

Decorative cylindrical wall luminaires, direct distribution (D)



Skeo-C W-D RB/800-830 ET 26

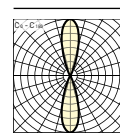
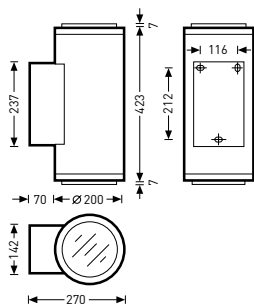
Safety class I

Protection rating IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Skeo-C W-D RB/800-830...26	61 150...	...40	LED 800 lm	15 W	7.5

Decorative cylindrical wall luminaires, direct/indirect distribution (DI)



Skeo-C W-DI RB-RB/1600-830 ET 26	
Safety class	I
Protection rating	IP65

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Skeo-C W-DI RB-RB/1600-830...26	61 152...	...40	LED 1600 lm	30 W	9.3
Skeo-C W-DI RB-RT/1700-830...26	61 153...	...40	LED 1700 lm	30 W	9.3
Skeo-C W-DI RT-RT/1700-830...26	61 151...	...40	LED 1700 lm	30 W	9.3

Underground supports

Reference	TOC	Accessory description	≈kg
Skeo-P ZE 50	61 161 00	Underground support	2.5

Connection accessories

Reference	TOC	Accessory description	≈kg
ZCG-20	61 230 00	Cable entry M20, IP65	

Accessories

Reference	TOC	Accessory description	≈kg
Skeo-P ZKTS	61 415 00	Mounting brackets junction box	0.4

Decorative bollard luminaires, light columns and wall luminaires



Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, light around the house, car parks.

Mounting type

...FP... Mounting via fastening of flange plate sufficiently firm underground or with use of an underground support in the substrate to be ordered separately.

...E... With bitumised underground support for installing into substrate.

LS 120... Mounting via integrated baseplate for direct mounting to firm underground or with use of an underground support in the substrate to be ordered separately.

...W... Mounting of wall luminaire with a wall plate.

Optical systems

Optical system of anodised aluminium. With rotationally symmetrical wide light distribution.

With versions with E27 or E40 socket with additional glare reduction of lamp.

Luminaire body

Supporting column of extruded aluminium section. Upper cover plate of die-cast aluminium. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant.

Cover of lamp compartment of non-laminated safety glass with printed wire glass design.

Relamping by unfastening of three stainless steel screws and removal of upper cover plate.

...Q... With square cross-section and four-sided light emission.

...D... With triangular cross-section and three-sided light emission.

...W... Wall luminaire closed at rear.

LS 270 Q... Windage area $F_w = 0.510 \text{ m}^2$.

LS 270 D... Windage area $F_w = 0.590 \text{ m}^2$.

LS 400 Q... Windage area $F_w = 0.760 \text{ m}^2$.

LS 400 D... Windage area $F_w = 0.880 \text{ m}^2$.

Electrical version

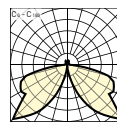
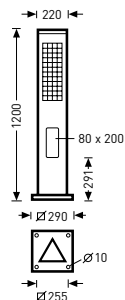
Electrical connection to 5-pole connection terminal to $2 \times 4.0 \text{ mm}^2$.

...W... Electrical connection to 4-pole connection terminal to 2.5 mm^2 .

...L... With inductive ballast.

...KT+L... With inductive ballast and conventional transformer.

Decorative bollard luminaires with triangular section (D)



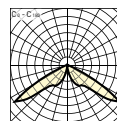
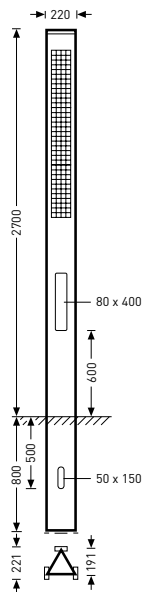
LS 120 D/1x70HIT L 26

Safety class I
Protection rating IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 120 D/1x70HIT...26	53 690...	...01	1 x HIT 70	12.8
LS 120 D/1x70HST...26	53 712...	...01	1 x HST 70	13.1
LS 120 D/1xTCL36...26	53 718...	...01	1 x TC-L 36	12.1

Decorative light columns with triangular section (D), with underground support (E)



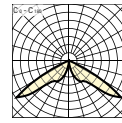
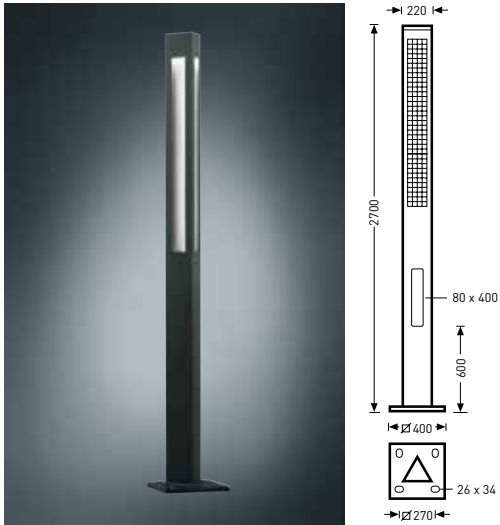
LS 270 D-E/1x150HIT L 26

Safety class I
Protection rating IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 270 D-E/1x150HIT...26	53 766...	...01	1 x HIT 150	38.6
LS 270 D-E/1x150HST...26	53 770...	...01	1 x HST 150	38.6
LS 270 D-E/1x70HIT...26	53 773...	...01	1 x HIT 70	38.0
LS 270 D-E/1x70HST...26	53 780...	...01	1 x HST 70	38.0

Decorative light columns with triangular section (D), with flange plate (FP)



LS 270 D-FP/1x150HIT L 26

Safety class

I

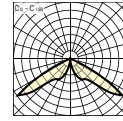
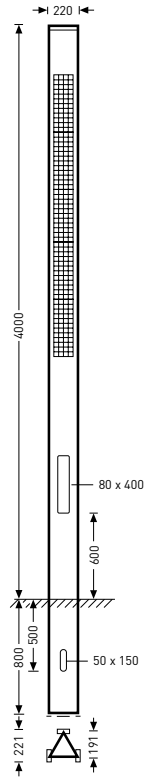
Protection rating

IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 270 D-FP/1x150HIT...26	53 786...	...01	1 x HIT 150	36.6
LS 270 D-FP/1x150HST...26	53 790...	...01	1 x HST 150	36.6
LS 270 D-FP/1x70HIT...26	53 795...	...01	1 x HIT 70	36.0
LS 270 D-FP/1x70HST...26	53 802...	...01	1 x HST 70	36.0

Decorative light columns with triangular section (D), with underground support (E)



LS 400 D-E/1x150HIT L 26

Safety class

I

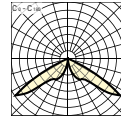
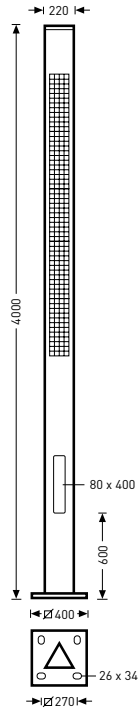
Protection rating

IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 400 D-E/1x150HIT...26	53 882...	...01	1 x HIT 150	54.6
LS 400 D-E/1x150HST...26	53 848...	...01	1 x HST 150	54.6
LS 400 D-E/1x70HIT...26	53 895...	...01	1 x HIT 70	54.0
LS 400 D-E/1x70HST...26	53 854...	...01	1 x HST 70	54.0

Decorative light columns with triangular section (D), with flange plate (FP)



LS 400 D-FP/1x150HIT L 26

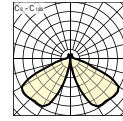
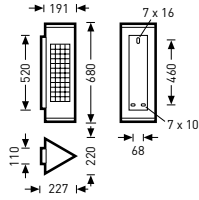
Safety class I

Protection rating IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 400 D-FP/1x150HIT...26	53 917...	...01	1 x HIT 150	49.6
LS 400 D-FP/1x150HST...26	53 864...	...01	1 x HST 150	49.6
LS 400 D-FP/1x70HIT...26	53 931...	...01	1 x HIT 70	49.0
LS 400 D-FP/1x70HST...26	53 870...	...01	1 x HST 70	49.0

Decorative wall luminaires with triangular section (D)



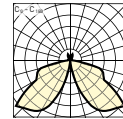
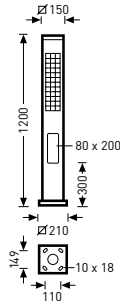
LS W-D/1x70HIT L 26

Safety class I
Protection rating IP44



Reference	TOC	...L ...01	...KT + L ...45	Lamps / Luminaire luminous flux	≈kg
LS W-D/1x70HIT...26	53 944...	...01	-	1 x HIT 70	9.5
LS W-D/1x70HIT+1x50QT12...26	53 958...	-	...45	1 x HIT 70 + 1 x QT 50	10.4

Decorative bollard luminaires with square section (Q)



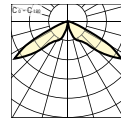
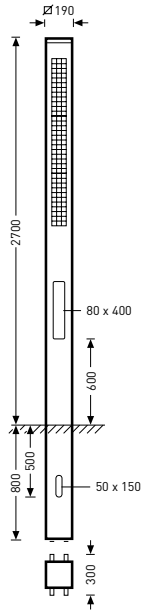
LS 120 Q/1x70HIT L 26

Safety class I
Protection rating IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 120 Q/1x70HIT...26	53 741...	...01	1 x HIT 70	11.5
LS 120 Q/1x70HST...26	53 750...	...01	1 x HST 70	11.9
LS 120 Q/1xTCL36...26	53 757...	...01	1 x TC-L 36	11.9

Decorative light columns with square section (Q), with underground support (E)



LS 270 Q-E/1x150HIT L 26

Safety class I

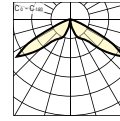
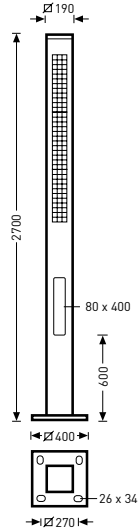
Protection rating

IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 270 Q-E/1x150HIT...26	53 808...	...01	1 x HIT 150	48.1
LS 270 Q-E/1x150HST...26	53 811...	...01	1 x HST 150	48.1
LS 270 Q-E/1x70HIT...26	53 814...	...01	1 x HIT 70	47.5
LS 270 Q-E/1x70HST...26	53 820...	...01	1 x HST 70	47.5

Decorative light columns with square section (Q), with flange plate (FP)



LS 270 Q-FP/1x150HIT L 26

Safety class I

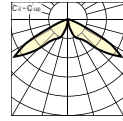
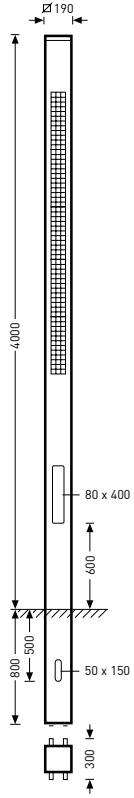
Protection rating

IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 270 Q-FP/1x150HIT...26	53 826...	...01	1 x HIT 150	43.6
LS 270 Q-FP/1x150HST...26	53 829...	...01	1 x HST 150	43.6
LS 270 Q-FP/1x70HIT...26	53 833...	...01	1 x HIT 70	43.0
LS 270 Q-FP/1x70HST...26	53 840...	...01	1 x HST 70	43.0

Decorative light columns with square section (Q), with underground support (E)



LS 400 Q-E/1x150HIT L 26

Safety class I

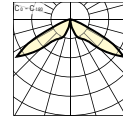
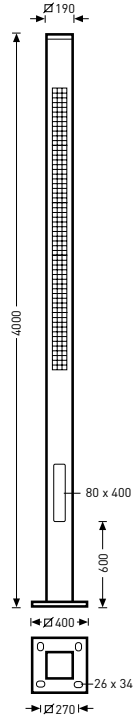
Protection rating

IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 400 Q-E/1x150HIT...26	53 881...	...01	1 x HIT 150	64.8
LS 400 Q-E/1x150HST...26	53 888...	...01	1 x HST 150	64.8
LS 400 Q-E/1x70HIT...26	53 894...	...01	1 x HIT 70	64.2
LS 400 Q-E/1x70HST...26	53 903...	...01	1 x HST 70	64.2

Decorative light columns with square section (Q), with flange plate (FP)



LS 400 Q-FP/1x150HIT L 26

Safety class I

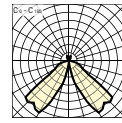
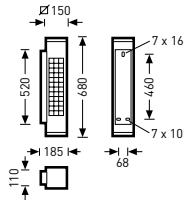
Protection rating

IP44



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
LS 400 Q-FP/1x150HIT...26	53 916...	...01	1 x HIT 150	60.0
LS 400 Q-FP/1x150HST...26	53 925...	...01	1 x HST 150	60.0
LS 400 Q-FP/1x70HIT...26	53 930...	...01	1 x HIT 70	59.4
LS 400 Q-FP/1x70HST...26	53 939...	...01	1 x HST 70	59.4

Decorative wall luminaires with square section (Q)



LS W-Q/1x70HIT L 26

Safety class

Protection rating

IP44



Reference	TOC	...L ...01	...KT + L ...45	Lamps / Luminaire luminous flux	≈kg
LS W-Q/1x70HIT...26	53 995...	...01	-	1 x HIT 70	8.5
LS W-Q/1x70HIT+1x35QR-LP...26	53 989...	-	...45	1 x HIT 70 + 1 QR-LP 35	9.4

Underground supports

Reference	TOC	Accessory description	≈kg
0804 E-1	56 424 00	Underground support, galvanised	31.5
0804 E-2	56 421 00	Underground support, galvanised	4.3
0804 E-3	56 423 00	Underground support, galvanised	6.0

Decorative light columns



Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, light around the house.

Mounting type

...FP... Mounting via fastening of flange plate sufficiently firm underground or with use of an underground support in the substrate to be ordered separately.

...E... With bitumised underground support for installing into substrate.

Optical systems

Optical system of anodised aluminium. With rotationally symmetrical wide light distribution.

RL 280... Light column with colour dynamics for effect lighting with LED.

LED system

RL 280 LED-RGB... LED RGB system with 9 x 1 W LED. Varying light colour.

Luminaire body

RL 400... /**RL 120**... Cylindrical cover of impact-resistant PMMA, clear.

RL 350... Cover cylinder of highly impact-resistant PMMA, translucent.

...26 Anthracite colour, similar to DB703 with metal effect, highly weather resistant, powder-coated.

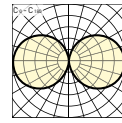
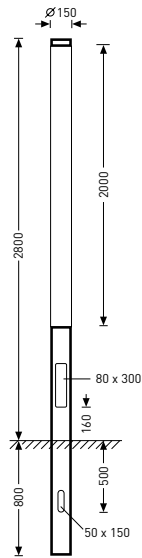
Electrical version

Electrical connection to 5-pole connection terminal to 2 x 4.0 mm².

...L... With inductive ballast.

...ET... With electronic transformer, switchable.

Decorative light columns with transparent diffuser (T), with underground support (E)



RL 280T-E/LED-RGB 9x1W 26

Safety class

Protection rating

I

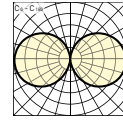
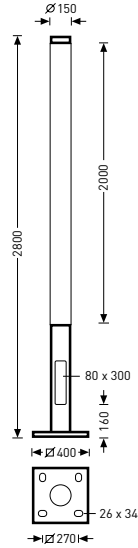
IP54



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	≈kg
RL 280T-E/LED-RGB 9x1W 26 ¹⁾	55 913...	...40	LED-RGB	21.0

¹⁾EN 60598-compliant

Decorative light columns with translucent diffuser (T), with flange plate (FP)



RL 280T-FP/LED-RGB 9x1W 26

Safety class

I

Protection rating

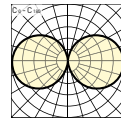
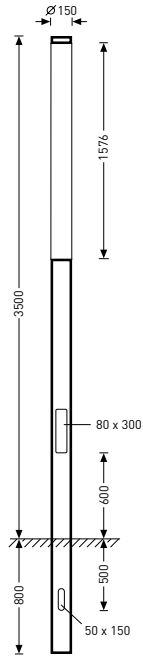
IP54



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	≈kg
RL 280T-FP/LED-RGB 9x1W 26 ¹⁾	55 915...	...40	LED-RGB	19.4

¹⁾EN 60598-compliant

Decorative light columns with transparent diffuser (T), with underground support (E)



RL 350T-E/1x58 L 26

Safety class I

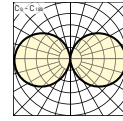
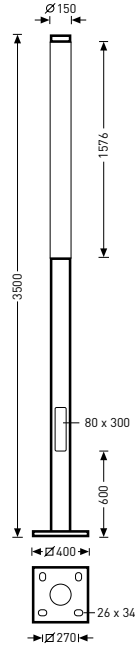
Protection rating

IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
RL 350T-E/1x58...26	54 110...	...01	1 x 58	26.9

Decorative light columns with translucent diffuser (T), with flange plate (FP)



RL 350T-FP/1x58 L 26

Safety class

I

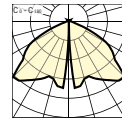
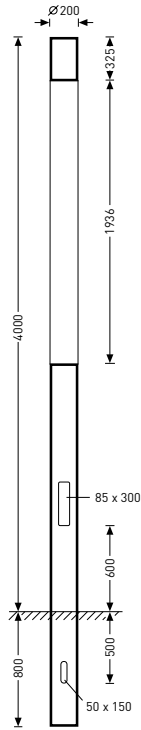
Protection rating

IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	=kg
RL 350T-FP/1x58...26	54 113...	...01	1 x 58	27.1

Decorative light columns with underground support (E)



RL 400-E/1x150HIT L 26

Safety class

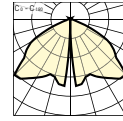
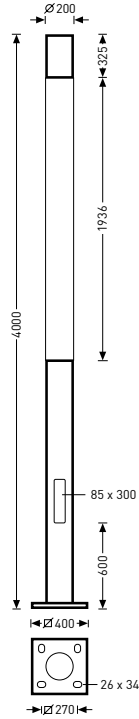
Protection rating

IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
RL 400-E/1x150HIT...26	54 120...	...01	1 x HIT 150	56.8
RL 400-E/1x70HIT...26	54 123...	...01	1 x HIT 70	55.8
RL 400-E/1x70HSE-I...26	54 127...	...01	1 x HSE-I 70	55.8

Decorative light columns with flange plate (FP)



RL 400-FP/1x150HIT L 26

Safety class

I

Protection rating

IP54



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
RL 400-FP/1x150HIT...26	54 135...	...01	1 x HIT 150	57.0
RL 400-FP/1x70HIT...26	54 138...	...01	1 x HIT 70	56.0
RL 400-FP/1x70HSE-I...26	54 141...	...01	1 x HSE-I 70	56.0

Underground supports

Reference	TOC	Accessory description	≈kg
0804 E-1	56 424 00	Underground support, galvanised	31.5



Decorative bollard luminaires and light columns



Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, light around the house.

Mounting type

SR 120... Mounting via integrated baseplate for direct mounting to firm underground or with use of an underground support in the substrate to be ordered separately.

...FP... Mounting via fastening of flange plate sufficiently firm underground or with use of an underground support in the substrate to be ordered separately.

...E... With bitumised underground support for installing into substrate.

Optical systems

With rotationally symmetric light emission.

Shield one-sided, for glare control of luminaire on one side. Adjustment of light emission direction via rotation of luminaire housing.

Luminaire body

Supporting column of extruded aluminium section. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant. Cover cylinder of highly impact-resistant PMMA, translucent.

...E... With continuous bitumised underground support.

...FP... With welded flange plate of die-cast aluminium.

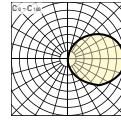
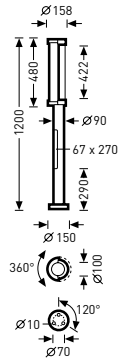
SR 120... With welded baseplate of die-cast aluminium.

Electrical version

Electrical connection to 5-pole connection terminal to 4.0 mm².

...E... With electronic ballast, switchable.

Decorative bollard luminaires



SR 120/1xTCL36 E 26

Safety class

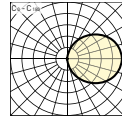
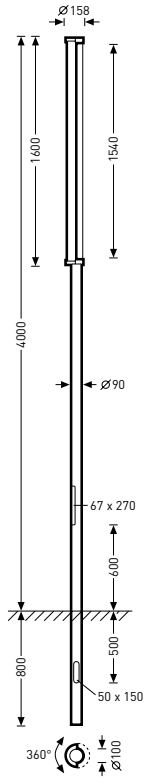
Protection rating

IP55



Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
SR 120/1xTCL36...26	55 919...	...04	1 x TC-L 36	12.5

Decorative light columns with underground support (E)



SR 400-E/1x58 E 26

Safety class I

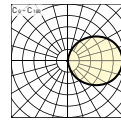
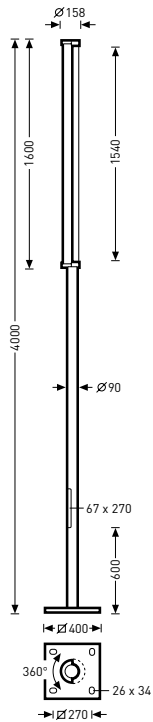
Protection rating

IP55



Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
SR 400-E/1x58...26	55 929...	...04	1 x 58	21.5

Decorative light columns with flange plate (FP)



SR 400-FP/1x58 E 26

Safety class I

Protection rating

IP55



Reference	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
SR 400-FP/1x58...26	55 934...	...04	1 x 58	24.0

Underground supports

Reference	TOC	Accessory description	≈kg
0804 E-1	56 424 00	Underground support, galvanised	31.5
0804 E-5	56 422 00	Underground support, galvanised	2.6

Decorative, modular light columns



The ConStela LED brings individuality and good looks to urban outdoor lighting. Planners and architects can rapidly and simply assemble the column with modular design using the TRILUX Configurator. Selection can be made from various luminaire heads, spots as intermediate elements and supporting columns of various heights. The result is a custom-designed column for individual lighting solutions. Various light modules also mean the ConStela LED is very flexible: It can illuminate both plazas as well as individual buildings.

Modular construction. Complete flexibility: The modular system makes it possible: supporting columns with various heights, various luminaire heads and the option of using flexibly settable spots create unique light columns. On request, TRILUX also offers further options for individualisation.

The TRILUX Configurator: The simplest way to achieve custom-designed light. With the TRILUX Configurator, individual modules are quickly combined to custom-designed columns.

No tools. No effort: It's quicker without tools: the spot elements are easily adjusted without tools.

Concise forms. A timeless design: The unique and purist design means the ConStela LED has timeless looks. It's the ideal solution for sophisticated outdoor design.

Applications

Arcades, pedestrian zones, light around the house, passages, stairs, access areas, residential facilities, paths in parks and green areas, access areas.

Mounting type

Luminaire head of modular, decorative LED light column system. For post-top mounting onto compatible system supporting column. Compatible system supporting column as separate unit in various lengths, or alternatively available with baseplate or underground support.

Optical systems

Optical system with Multi-Lens Technology. Consists of highly efficient, UV and temperature-resistant lens systems.

---**Empor**--- With inner PMMA reflector cone for increasing the photometrically active area and for glare reduction.

---**RB**--- With rotationally symmetrical wide angle light distribution.

---**AB**--- With asymmetrical wide light intensity distribution.

LED system

LED system consists of 5 MLT LED modules each with 4 LEDs. LED degradation L80, LED mortality B10, service life 50,000 operating hours, colour rendering index: Ra > 70. Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

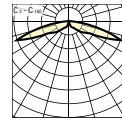
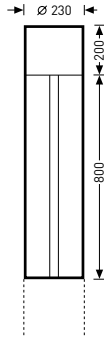
Luminaire body of extruded aluminium profile, Ø 230 mm. Anthracite colour, similar to DB703 with metal effect, highly weather resistant, powder-coated. Cylindrical cover of impact-resistant PMMA, clear. Luminaire body can be steplessly rotated through 360 °. Other colours and anti-graffiti coating on request.

Electrical version

Wired ready for connection with freely suspended electrical mains cable. Electrical connection via 3-pole socket part of plug connection, up to 2.5 mm².

---**ET**--- With electronic transformer, switchable.

Decorative light columns



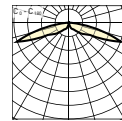
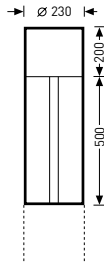
CS 23 Basic 110 AB1L/4200-740 ET

Safety class II
Protection rating IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
CS 23 Basic 110 AB1L/4200-740 ET	62.913...	...40	LED 4200 lm	49 W	16.2
CS 23 Basic 110 RB1L/4200-740 ET	62.911...	...40	LED 4200 lm	49 W	16.2

Decorative light columns



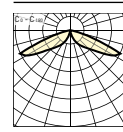
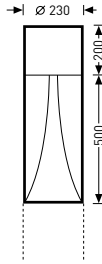
CS 23 Basic 80 AB1L/4200-740 ET

Safety class II
Protection rating IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
CS 23 Basic 80 AB1L/4200-740 ET	62.912...	...40	LED 4200 lm	49 W	14.1
CS 23 Basic 80 RB1L/4200-740 ET	62.910...	...40	LED 4200 lm	49 W	14.1

Decorative light columns



CS 23 Empor 80 RB2L/4200-740 ET

Safety class

II

Protection rating

IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
CS 23 Empor 80 RB2L/4200-740 ET	62 914...	...40	LED 4200 lm	49 W	12.4

Junction boxes

Reference	TOC	Accessory description	≈kg
0802 KÜ/3	22 182 00	Junction box	0.8

Supporting columns

Reference	TOC	Accessory description	≈kg
Supporting columns CS 23-E 4000 26	62 904 00	Supporting column 4.0 m with underground support	53.2
Supporting columns CS 23-E 4500 26	62 906 00	Supporting column 4.50 m with underground support	60.3
Supporting columns CS 23-E 5000 26	62 908 00	Supporting column 5.0 m with underground support	64.3
Supporting columns CS 23-FP 4000 26	62 903 00	Supporting column 4.0 m with flange plate	49.2
Supporting columns CS 23-FP 4500 26	62 905 00	Supporting column 4.50 m flange plate	54.3
Supporting columns CS 23-FP 5000 26	62 907 00	Supporting column 5.0 m with flange plate	59.3
Supporting columns CS 23-FP 5500 26	62 965 00	Supporting column 5.50 m with flange plate	64.3
Supporting columns CS 23-FP 6000 26	62 909 00	Supporting column 6.0 m with flange plate	69.3

Screens

Reference	TOC	Accessory description	≈kg
ZCS 23 screens	62 916 00	Anti-glare screen	4.7

Decorative bollard and wall luminaires



Applications

Pedestrian zones, arcades, paths in parks and green areas, residential facilities, stairs, access areas, light around the house.

Mounting type

Installation of bollard luminaire in firm underground via baseplate. Mounting in the substrate is via suitable underground support (accessory).

...W... Mounting of wall luminaire with die-cast aluminium mounting plate.

Optical systems

With wide light intensity distribution.

...L... With decorative upper light output.

Luminaire body

Luminaire head of aluminium and die-cast aluminium components, metallic grey colour similar to RAL 9006, highly weather resistant, powder-coated. Relamping after removal of luminaire head, secured via stainless steel screws with allen key.

Cover of lamp compartment with translucent, impact resistant borosilicate glass tube, with TC-T configuration of impact resistant PMMA.

Supporting column of extruded aluminium section, round section.

Flange plate of die-cast aluminium.

Supporting column and baseplate. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant.

Electrical version

Electric block with all electric components, can be replaced. Ingress protection of connection housing IP23.

...W... Electrical connection to socket of plug connection to 2 x 5 x 1.5 mm².

...K... With inductive ballast, parallel-compensated.

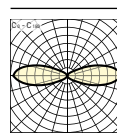
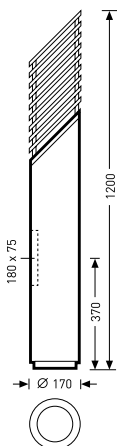
...E... With electronic ballast.

Mains No power supply equipment required, lamp operation directly from mains power.

Supplementary equipment

...Ü... Optionally with rear door and integral junction box for fuse to 16 A. Feeding for two cables, max. 5 x 6 mm². Degree of protection: IP54 for junction box.

Bollard luminaires



8821/50-70HST/E-E K

Safety class

II

Protection rating

IP65

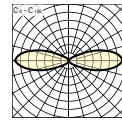
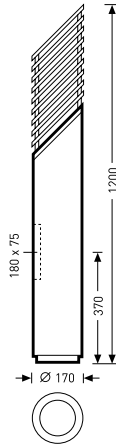


Reference	TOC	Mains			Lamps / Luminaire	≈kg
		...E ...04	...K ...02	...10		
8821/50-70HST/E-E... ¹⁾²⁾	13 168...	-	...02	-	1 x HST 50/70	12.2
8821/E27 max 75W	13 170...	-	-	...10	1 x E27 100	11.0
8821/TCT26/32/42...	58 364...	...04	-	-	1 x TC-T 26/32/42	11.0
8821 Ü/50-70HST/E-E... ¹⁾²⁾	13 201...	-	...02	-	1 x HST 50/70	12.8
8821 Ü/E27 max 75W	13 203...	-	-	...10	1 x E27 100	11.6
8821 Ü/TCT26/32/42...	58 375...	...04	-	-	1 x TC-T 26/32/42	11.6

¹⁾Lamp for external ignition

²⁾Switchable control unit, pre-set to low level

Bollard luminaires with upwards light emission (L)



8821 L/50-70HST/E-E K

Safety class

II

Protection rating

IP65

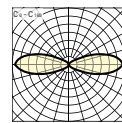
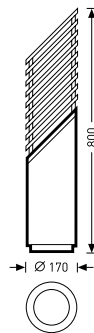


Reference	TOC	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8821 L/50-70HST/E-E... ¹⁾²⁾	13 180...	-	...02	-	1 x HST 50/70	12.2
8821 L/E27 max 75W	13 182...	-	-	...10	1 x E27 100	11.0
8821 L-Û/50-70HST/E-E... ¹⁾²⁾	13 192...	-	...02	-	1 x HST 50/70	12.8
8821 L-Û/E27 max 75W	13 194...	-	-	...10	1 x E27 100	11.6
8821 L-Û/TCT26/32/42...	58 368...	...04	-	-	1 x TC-T 26/32/42	11.6
8821 L/TCT26/32/42...	58 366...	...04	-	-	1 x TC-T 26/32/42	11.0

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Short bollards



8821 K/50-70HST/E-E K

Safety class

II

Protection rating

IP65

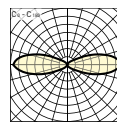
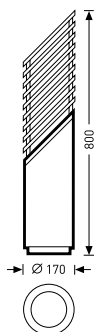


Reference	TOC	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8821 K/50-70HST/E-E... ¹⁾²⁾	13 174...	-	...02	-	1 x HST 50/70	9.4
8821 K/E27 max 75W	13 176...	-	-	...10	1 x E27 100	8.2
8821 K/TCT26/32/42...	58 365...	...04	-	-	1 x TC-T 26/32/42	8.2

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

Short bollards with upwards light emission (L)



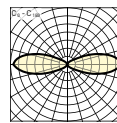
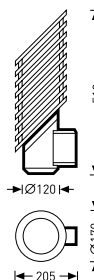
8821 L-K/50-70HST/E-E K	
Safety class	II
Protection rating	IP65

Reference	TOC	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8821 L-K/50-70HST/E-E...¹⁾²⁾	13 186...	-	...02	-	1 x HST 50/70	9.4
8821 L-K/E27 max 75W	13 188...	-	-	...10	1 x E27 100	8.2
8821 L-K/TCT26/32/42...	58 367...	...04	-	-	1 x TC-T 26/32/42	8.2

¹⁾ Lamp for external ignition

²⁾ Switchable control unit, pre-set to low level

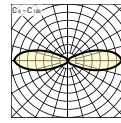
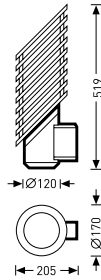
Wall-mounted luminaires



8821 W/E27 max 75W	
Safety class	I
Protection rating	IP65

Reference	TOC	...E ...04	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8821 W/E27 max 75W	13 206...	-	...10	1 x E27 100	5.6
8821 W/TCT26/32/42...	58 370...	...04	-	1 x TC-T 26/32/42	5.6

Wall-mounted luminaires with upwards light emission (L)



8821 L-W/E27 max 75W

Safety class

Protection rating

IP65



Reference	TOC	...E ...04	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8821 L-W/E27 max 75W	13 197...	-	...10	1 x E27 100	5.6
8821 L-W/TCT26/32/42...	58 369...	...04	-	1 x TC-T 26/32/42	5.6

Underground support

Reference	TOC	Accessory description	≈kg
08800	22 214 00	Underground support	2.8

Decorative light columns and bollard luminaires



Applications

Pedestrian zones, arcades, paths in parks and green areas, residential facilities, stairs, access areas, light around the house.

...LS... Light column also for car parks.

Mounting type

Installation of bollard luminaire in firm underground via baseplate. Mounting in the substrate is via suitable underground support (accessory).

...W... Mounting of wall luminaire with die-cast aluminium mounting plate.

Optical systems

With rotationally symmetrical wide light distribution.

Luminaire body

Luminaire head of aluminium and die-cast aluminium components, metallic grey colour similar to RAL 9006, highly weather resistant, powder-coated. Relamping after removal of luminaire head, secured via stainless steel screws with allen key.

Supporting column of extruded aluminium section, round section. Flange plate of die-cast aluminium.

Cover of lamp compartment with translucent, impact resistant borosilicate glass tube, with TC-T configuration of impact resistant PMMA.

...LS... Cover of lamp compartment with translucent, impact resistant PMMA tube.

Supporting column and baseplate. Colour anthracite, similar to DB 703 with metallic effect, powder-coated, highly weather resistant.

Electrical version

Electric block with all electric components can be replaced.

Electrical connection via 3-pole connection terminal to 2 x 4mm². Ingress protection of connection housing IP23.

Electrical connection via 3-pole connection terminal to 2 x 4mm².

...W... Electrical connection to socket of plug connection to 2 x 5 x 1.5 mm².

...K... With inductive ballast, parallel-compensated.

...E... With electronic ballast.

Mains No power supply equipment required, lamp operation directly from mains power.

Supplementary equipment

...U... Optionally with rear door and integral junction box for fuse to 16 A. Feeding for two cables, max. 5 x 6 mm². Degree of protection IP54 for junction box.



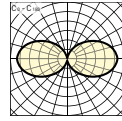
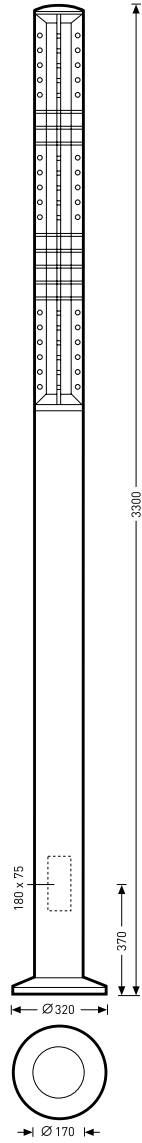
Building architecture does not stop with the outer facade but continues into the building interior and this is where TRILUX bollard luminaires come into play, with filigree designs and technical perfection to guide people safely to where they want to go.

The right lighting solution for a wide variety of applications: as bollard luminaires in parks and green areas, as wall luminaires in sophisticated entrance areas or as light columns in decorative outdoor spaces – the 883... series provides perfect accent lighting.

The baseplate of the bollard luminaire is screwed directly to firm underground such as stone slabs, concrete bases or decking. The 08800 underground support is available for fixing the luminaire into the substrate.



Light columns



8831 LS/36 K

Safety class

II

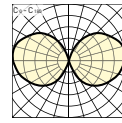
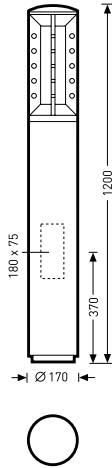
Protection rating

IP65



Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8831 LS/36...	13 223...	...02	1 x 36	28.7
8831 LS-Ü/36...	13 224...	...02	1 x 36	29.6

Bollard luminaires



8831/50-70HST K

Safety class

II

Protection rating

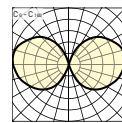
IP65



Reference	TOC	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8831/50-70HST... ¹⁾	13 211...	-	...02	-	1 x HST 50/70	9.6
8831/E27 max 100W	13 214...	-	-	...10	1 x E27 100	8.4
8831/TCT26/32/42...	58 371...	...04	-	-	1 x TC-T 26/32/42	8.4
8831 Ü/50-70HST... ¹⁾	13 226...	-	...02	-	1 x HST 50/70	10.2
8831 Ü/E27 max 100W	13 227...	-	-	...10	1 x E27 100	9.0
8831 Ü/TCT26/32/42...	58 373...	...04	-	-	1 x TC-T 26/32/42	9.0

¹⁾ Switchable control unit, pre-set to low level

Short bollards



8831 K/50-70HST K

Safety class

II

Protection rating

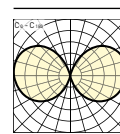
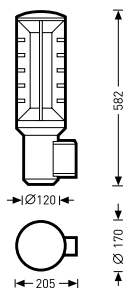
IP65



Reference	TOC	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8831 K/50-70HST... ¹⁾	13 218...	-	...02	-	1 x HST 50/70	7.9
8831 K/E27 max 100W	13 219...	-	-	...10	1 x E27 100	6.7
8831 K/TCT26/32/42...	58 372...	...04	-	-	1 x TC-T 26/32/42	6.7

¹⁾ Switchable control unit, pre-set to low level

Wall-mounted luminaires



8831 W/E27 max 100W	
Safety class	
Protection rating	IP65

Reference	TOC	...E ...04	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8831 W/E27 max 100W	13 230...	-	...10	1 x E27 100	4.1
8831 W/TCT26/32/42...	58 374...	...04	-	1 x TC-T 26/32/42	4.1

Underground supports

Reference	TOC	Accessory description	≈kg
08800	22 214 00	Underground support	2.8
08800 LS	22 215 00	Underground support for light column	13.6

Decorative LED bollard luminaires



Constructional architecture does not end with the outer facade but continues with the building surroundings. During daytime, the 8841 LED bollard luminaire emphasises the looks of outdoor facilities, while in twilight and evening hours it illuminates paths attractively, efficiently and safely with the best lighting technology. Available with different wide light distribution characteristics, the luminaire perfectly adapts to its surroundings and can also be used as a bollard, short bollard or wall luminaire. The 8841 LED is certainly fit for the future: Subsequent modifications can be carried out quickly thanks to the easily replaceable luminaire head.

Timeless elegance. Design flexibility: The timeless, classic design of the 8841 LED gives it an unmistakable character and blends aesthetically into either sophisticated or decorative architectural surroundings.

Flexible family. Customised light: The 8841 LED is available as a bollard, short bollard or wall luminaire and can optionally be configured with asymmetric or rotationally symmetric wide light distribution as well as various luminaire luminous flux packages. Additional vandalism protection is provided by an optional supporting column with continuous underground support.

High-performance lighting technology: The innovative lighting technology guarantees optimal light effects with minimum energy costs.

Applications

Pedestrian zones, arcades, paths in parks and green areas, residential areas, stairways, access areas, building vicinity lighting.

Mounting method

Fixing of the bollard luminaire in firm underground with a baseplate. Mounting in the substrate is via a suitable underground support (accessory).

Optical systems

Asymmetric wide light distribution (AB-A01): direct distribution, multi-lens technology (MLT).
Two asymmetric wide (AB) distribution modules (A01) 4 LEDs incl. high efficiency lens system.
Rotationally symmetrical wide light distribution (RB): direct distribution, 6 LEDs behind a frosted plastic cover.

Luminaire body

Luminaire head of aluminium and die-cast aluminium components, cover cylinder of highly impact-resistant PMMA, clear. Supporting column of extruded aluminium, diameter ca. 170 mm. Anthracite colour with metal effect, similar to DB 703, highly weather resistant, powder-coated.
...K... Short bollard.

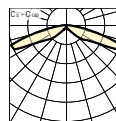
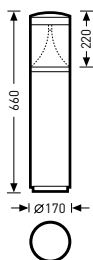
Electrical version

Replaceable electrical block with all electric components. Electrical connection via 3-pole connection terminal to 2 x 4 mm². Ingress protection of connection housing IP23.
...ET... With electronic control unit, switchable.

Supplementary equipment

...Ü... Optionally with rear door and integral junction box for fuse to D17.
Feeding for two cables, max. 5 x 6 mm². Protection rating IP54 for junction box.

Short bollard



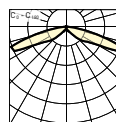
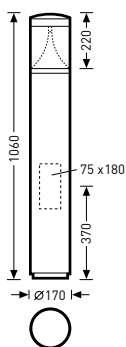
8841 K-AB-A01/700-730 ET 26

Safety class II
Protection rating IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8841 K-AB-A01/700-730 ET 26	63 121...	...40	LED 700 lm	9 W	6.1
8841 K-RB/700-730 ET 26	63 123...	...40	LED 700 lm	15 W	6.1

Bollard luminaires



8841 AB-A01/700-730 ET 26

Safety class II
Protection rating IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8841 AB-A01/700-730 ET 26	63 119...	...40	LED 700 lm	9 W	7.8
8841 RB/700-730 ET 26	63 124...	...40	LED 700 lm	15 W	7.8
8841 Ü-AB-A01/700-730 ET 26	63 125...	...40	LED 700 lm	9 W	7.8
8841 Ü-RB/700-730 ET 26	63 127...	...40	LED 700 lm	15 W	7.8

Underground support

Reference	TOC	Accessory description	≈kg
08800	22 214 00	Luminaire underground support	2.8



Decorative bollard and wall luminaires



The designer Peter Zegers has a uniquely fine feeling for an unadorned, chaste design language that still proves to be exciting. In accordance with a strict, mathematical basic order, the wall and bollard luminaires of the HS series enrich any school of architecture.

Discreet elegance: Simple, geometric forms make the HS a classic element of design.

Accentuating: Lighting accents set surfaces to be illuminated in-scene.

Safe: Contributes safety and orientation.

Efficient: Economic with low power consumption and extremely low maintenance due to LED technology.

Reliable: Long-life and almost maintenance-free – these luminaires are a dependable partner for outdoor areas.

Applications

Paths in parks and green areas, residential facilities, stairs, access areas, light around the house.

Mounting type

HS 80... Installation of bollard luminaire via direct fastening of baseplate to solid underground or with use of an underground support in the substrate to be ordered separately.

HS I... Mounting of wall luminaire with die-cast aluminium mounting plate.

HS... Mounting of wall luminaire with die-cast aluminium mounting plate.

LED system

...LED-W... With white LED.

Luminaire body

HS 80... Luminaire body of die-cast aluminium. Supporting column of extruded aluminium profile with welded baseplate of die-cast aluminium. Cover glass of durable borosilicate. Relamping via tool-free removal of cover glass with bayonet fixing mechanism.

...M2... Decorative bollard luminaire, double-headed.

HS I... Luminaire body of die-cast aluminium. Cover glass of durable borosilicate. Relamping via tool-free removal of cover glass with bayonet fixing mechanism.

HS II... Luminaire body of die-cast aluminium. Protective grid of die-cast aluminium. Cover glass of non-laminated safety glass. Relamping via release of a safety screw and removal of luminaire housing from mounting plate.

...24 Colour grey-white, similar to RAL 9002 with metal effect, powder-coated, highly weather resistant.

...26 Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant.

Electrical version

HS... Electrical connection to 3-pole connection terminal to 1.5 mm².

HS 80... Electrical connection to 3-pole connection terminal to 4 mm² on connection unit of the flange plate.

...L... With inductive ballast.

...KT... With conventional transformer.

...ET... With electronic transformer, switchable.

Mains No power supply equipment required, lamp operation directly from mains power.



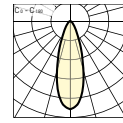
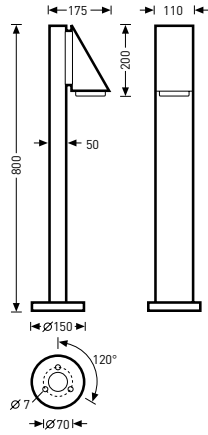
Variable mounting options to vertical surfaces or as a bollard ensures a wide application spectrum.

A simple design that ensures a natural connection of the luminaire to the wall. Sharp edges and straight lines create an unmistakable form.

An efficient partner: the HS version with LED. Long-life and almost maintenance-free – this luminaire is a dependable partner for every conceivable outdoor application.



Decorative bollard luminaires



HS 80/LED-W 26

Safety class

Protection rating

I

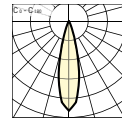
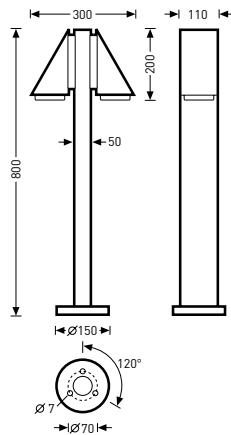
IP54



Reference	TOC	...ET ...40	Mains ...10	...KT ...41	Lamps / Luminaire luminous flux	Connected load	≈kg
Anthracite							
HS 80/LED-W 26 ¹⁾	55 632...	...40	-	-	LED 200 lm	3 W	4.6
HS 80/1x50QPAR 26	55 581...	-	...10	-	1 x PAR 50		6.4
HS 80/1x50QR-CB 26	55 595...	-	-	...41	1 x QR-CB 50		5.2
Grey-white							
HS 80/LED-W 24 ¹⁾	55 631...	...40	-	-	LED 200 lm	3 W	4.6
HS 80/1x50QPAR 24	55 580...	-	...10	-	1 x PAR 50		6.4
HS 80/1x50QR-CB 24	55 593...	-	-	...41	1 x QR-CB 50		5.2

¹⁾ EN 60598-compliant.

Decorative bollard luminaires with double-headed configuration (M2)



HS 80-M2/LED-W 26

Safety class I

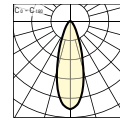
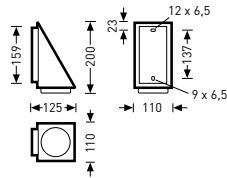
Protection rating IP54




Reference	TOC	...ET ...40	Mains ...10	...KT ...41	Lamps / Luminaire luminous flux	Connected load	≈kg
Anthracite							
HS 80-M2/LED-W 26 ¹⁾	55 655...	...40	-	-	LED 400 lm	6 W	5.8
HS 80-M2/1x50QPAR 26	55 636...	-	...10	-	1 x QPAR 50		4.6
HS 80-M2/1x50QR-CB 26	55 642...	-	-	...41	1 x QR-CB 50		7.1
Grey-white							
HS 80-M2/LED-W 24 ¹⁾	55 654...	...40	-	-	LED 400 lm	6 W	5.8
HS 80-M2/1x50QPAR 24	55 635...	-	...10	-	1 x QPAR 50		4.6
HS 80-M2/1x50QR-CB 24	55 641...	-	-	...41	1 x QR-CB 50		7.1

¹⁾ EN 60598-compliant.

Decorative wall luminaires

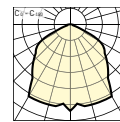
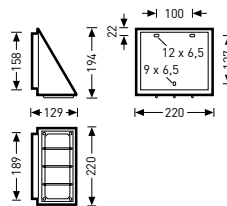





HS I/LED-W 26	
Safety class	
Protection rating	IP54
  	

Reference	TOC	...ET ...40	Mains ...10	...KT ...41	Lamps / Luminaire luminous flux	Connected load	≈kg
Anthracite							
HS I/LED-W 26 ¹⁾	55 785...	...40	-	-	LED 200 lm	3 W	1.2
HS I/1x50QPAR 26	55 670...	-	...10	-	1 x QPAR 50		1.2
HS I/1x50QR-CB 26	55 701...	-	-	...41	1 x QR-CB 50		1.9
Grey-white							
HS I/LED-W 24 ¹⁾	55 782...	...40	-	-	LED 200 lm	3 W	1.2
HS I/1x50QPAR 24	55 667...	-	...10	-	1 x QPAR 50		1.2
HS I/1x50QR-CB 24	55 695...	-	-	...41	1 x QR-CB 50		1.9

¹⁾ EN 60598-compliant.

Decorative wall luminaires with protective grid



HS II/1x100QT-DE 26	
Safety class	
Protection rating	IP54
  	

Reference	TOC	...L ...01	Mains ...10	Lamps / Luminaire luminous flux	≈kg
Anthracite					
HS II/1x100QT-DE 26	55 794...	-	...10	1 x QT-DE 100	1.8
HS II/1xTCD18...26	53 527...	...01	-	1 x TC-D 18	2.3
Grey-white					
HS II/1x100QT-DE 24	55 791...	-	...10	1 x QT-DE 100	1.8
HS II/1xTCD18...24	53 525...	...01	-	1 x TC-D 18	2.3

Underground support

Reference	TOC	Accessory description	≈kg
0804 E-5	56 422 00	Underground support, galvanised	2.6

Decorative recessed wall luminaires



The Pareda recessed wall luminaire with its classic, timeless design is suitable for architecturally sophisticated lighting of entrance areas, steps and ramps both indoors and outdoors. It can be mounted either flush to the wall or with raised frame and is available in various sizes for flexible adaptation to a wide range of lighting tasks. With its high protection rating and very durable materials, the Pareda LED is ideal for continuous use in tough weather conditions.

Universal: With two different construction sizes and various recessing versions, the luminaire offers a wide spectrum of applications for flexible design arrangements according to specific lighting tasks.

Practical: The matching system of mounting enclosure and recessed luminaire provides flexibility in all construction phases.

Classic: The well-balanced housing design has a timeless appearance.

Trouble-free: Maximum manufacturing quality, the use of long-life materials and almost complete freedom from maintenance ensure permanent value.

Applications

Arcades, passages, residential facilities, stairs, access areas, light around the house.

Mounting type

For installation with a mounting enclosure in solid walls of stone or breezeblock. Suitable wall mounting enclosure included in scope of supply.

...Plan... Recessing flush with wall.

...Top... Installation with raised frame.

Optical systems

Diffuse distribution optics with safety glass cover. Harmonious light distribution.

LED system

LED degradation L80, LED mortality B10, service life 50,000 operating hours, colour rendering index Ra > 70. Light colour warm white (ww), colour temperature 3000 K.

Luminaire body

Luminaire body of die-cast aluminium. High impact-resistance. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant.

Pareda R... Decorative wall luminaire of rectangular design.

Pareda S... Decorative wall luminaire with square form.

...26... Colour of luminaire body anthracite, similar to DB 703 with metal effect, highly weather resistant, powder-coated.

Electrical version

...ET... With electronic transformer, switchable.

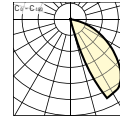
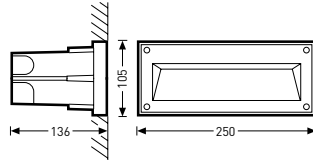



The recessed wall luminaire with its discreet design blends harmoniously into any installation situation. The square and rectangular versions can also be installed in combination due to identically low basis heights.

The Pareda LED can be installed flush into the wall to achieve flat appearances. Alternatively a version with protruding frame is available that is ideal especially for rough wall surfaces.



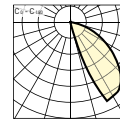
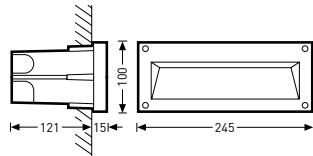
Decorative recessed wall luminaires for flush wall recessing, rectangular construction (R)




Pareda R Plan LED-ww ET 26	
Safety class	I
Protection rating	IP65
	

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Pareda R Plan LED-ww...26	60 587...	...40	LED 100 lm	6 W	1.9

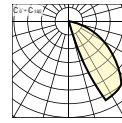
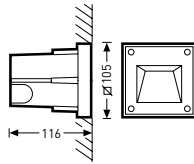
Decorative recessed wall luminaires with raised frame, rectangular construction (R)



Pareda R Top LED-ww ET 26	
Safety class	I
Protection rating	IP65
	

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Pareda R Top LED-ww...26	60 586...	...40	LED 100 lm	6 W	1.9

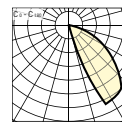
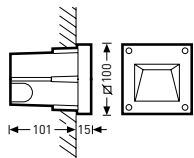
Decorative recessed wall luminaires for flush wall installation, square construction (S)



Pareda S Plan LED-ww ET 26	
Safety class	I
Protection rating	IP65

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Pareda S Plan LED-ww...26	60 585...	...40	LED 30 lm	3 W	1.0

Decorative recessed wall luminaires with raised frame, square construction (S)



Pareda S Top LED-ww ET 26	
Safety class	I
Protection rating	IP65

Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Pareda S Top LED-ww...26	60 584...	...40	LED 30 lm	3 W	1.0

Connection accessory

Reference	TOC	Accessory description	≈kg
ZCG-20	61 230 00	Cable entry M20, IP65	

Decorative ground-recessed luminaires



The right light can come from anywhere: in this case from the ground. The ground recessed luminaire is a marker and guide, but more importantly a setter of accents when it comes to supporting a particular architectural effect. Equipped with white or coloured LEDs, easily combined, frameless and with a "NepStep" anti-slip surface, the Lichtboden gives paths and squares a really individual look.

Innovative surface: As a consequence of further development of the anti-slip property R12, the "NepStep" is now available, offering maximum safety for pedestrian areas, even when wet.

Glass to glass: With the possibility of framelessly combining Lichtboden elements, large surfaces can be equipped with ease.

Applications

Pedestrian zones, arcades, passages, light around the house.

Mounting type

On-site, a foundation suitable for the load with adequate drainage must be ensured.

LED system

Complete with control unit and 6 LEDs. LED unit of highly impact-resistant PMMA with clear light emission for installation in housing to be ordered separately. With connection cable fed outwards, sealed with appropriate protection rating.

- ...LED-B... With blue LEDs.
- ...LED-G... With green LEDs.
- ...LED-O... With orange LEDs.
- ...LED-R... With red LEDs.
- ...LED-W... With white LEDs.

Luminaire body

Lichtboden GH... Housing of die-cast aluminium for installation of LED units to be ordered separately. Including flush-fitting cover glass. Housing with large drainage aperture. Cover glass underside with special foil for homogeneous illumination of glass surface. With R12 anti-slipping. Housing colour grey-white, similar to RAL 9002, highly weather resistant, powder-coated.

Electrical version

Electrical connection via included 3-pole EasyClick plug connection, IP68 to 2.5 mm².

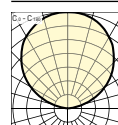
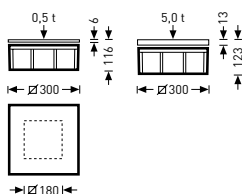
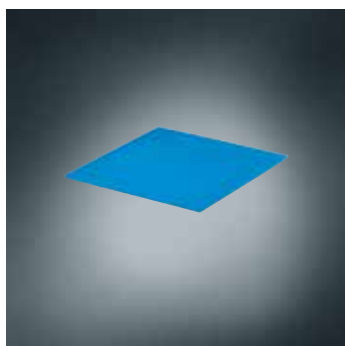
Connection accessories for simplified installation of several LED units must be ordered separately.

...ET... With electronic transformer, switchable.

Application note

Ground recessed luminaires must not be used in areas with stress loads from accelerating, braking and turning movements of vehicles.

Decorative ground-recessed luminaires, LED units



Lichtboden/LED-B 6x1W

Safety class

II

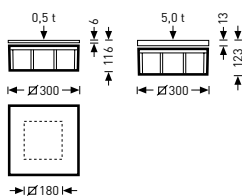
Protection rating

IP67



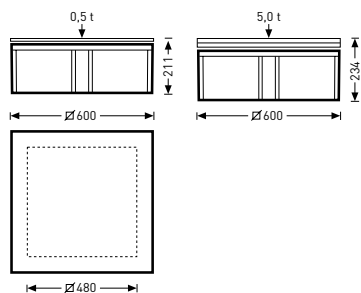
Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Lichtboden/LED-B 6x1W	55 853...	...40	LED 200 lm	8 W	1.1
Lichtboden/LED-G 6x1W	55 854...	...40	LED 500 lm	8 W	1.1
Lichtboden/LED-O 6x1W	55 855...	...40	LED 200 lm	8 W	1.1
Lichtboden/LED-R 6x1W	55 856...	...40	LED 200 lm	8 W	1.1
Lichtboden/LED-W 6x1W	55 857...	...40	LED 550 lm	8 W	1.1

Decorative ground-recessed luminaires, housing for one LED unit



Reference	TOC	Accessory description	≈kg
Lichtboden GH-NS/300x300/0.5T 24	56 918 00	Decorative ground-recessed luminaire, housing for one LED unit	5.7
Lichtboden GH-NS/300x300/5.0T 24	56 921 00	Decorative ground-recessed luminaire, housing for one LED unit	7.4
Lichtboden GH/300x300/0.5T 24	56 467 00	Decorative ground-recessed luminaire, housing for one LED unit	5.7
Lichtboden GH/300x300/5.0T 24	56 468 00	Decorative ground-recessed luminaire, housing for one LED unit	7.4

Decorative ground-recessed luminaires, housing for four LED units



Reference	TOC	Accessory description	≈kg
Lichtboden GH/600x600/0.5T 24	56 470 00	Decorative ground-recessed luminaire, housing for four LED units	26.8
Lichtboden GH/600x600/5.0T 24	56 471 00	Decorative ground-recessed luminaire, housing for four LED units	46.7

Decorative ground recessed spotlights



Setting targeted light accents, illuminating surfaces and even displaying buildings in an exciting light – with the expanded Lutera LED portfolio the options range from very small to very large with the ground-recessed luminaires. The Lutera LED is available in three construction sizes with various lamp configurations to create a very wide application range: new, for example, are the especially high-performance LED solutions which also attractively illuminate larger buildings and give lighting designers more design flexibility. All luminaires in the range can be easily installed: the low recess depth predestines them for new applications both indoors and outdoors.

Perfect light. In the ground: Three construction sizes, various light source configurations and new high-performance luminous flux packages enable wide planning flexibility for both indoors and outdoors.

The design. Functional aesthetics: The Lutera LED represents both functional and attractive light design for buildings and objects.

Long operating durations. In extreme conditions: The intelligent sealing concept guarantees long-term, disturbance-free operation even after long operating durations in extreme conditions.

Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks, light around the house, accent lighting.

Mounting type

For ground recessing. On-site, a foundation suitable for the load with adequate drainage must be ensured. Suitable ground mounting enclosure included in scope of supply.

Optical systems

Optical system of anodised aluminium.

---**RB**--- With rotationally symmetrical wide angle light distribution.

---**RE**--- With rotationally symmetrical narrow light distribution.

LED system

LED system configured with 3 LEDs.

Specific parameters for defining LED service life: L80/B10, service life 50,000 operating hours.

---**8**--- Colour rendering index Ra > 80.

---**30**--- Colour temperature 3000 K.

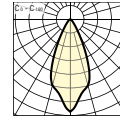
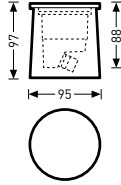
---**40**--- Colour temperature 4000 K.




Spotlight housing and cover ring of die-cast aluminium, colour deep black, similar to RAL 9005, powder-coated. Cover of 15 mm thick, hardened glass, clear. Can be rolled over to 2000 kg. Ground recessing bowl of weather-resistant PVC tube. With luminaire mounting ring of glass-fibre reinforced PA6.

Electrical version

Wired ready for connection. With connection cable fed outwards, 2 x 1.5 mm², sealed with appropriate protection rating. Inner connection compartment sealed with epoxy resin. With electronic transformer, dimmable (1...10 V).

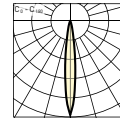
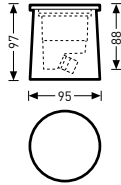
Decorative ground-recessed spotlights, rotationally symmetrical wide distribution (RB)






8501RB/LED200-830 ETD 05	
Safety class	I
Protection rating	IP68
  	

Reference	TOC	...ETD ...57	Lamps / Luminaire luminous flux	Connected load	≈kg
8501RB/LED200-830...05	63 769...	...57	LED 220 lm	4 W	1.2
8501RB/LED200-840...05	63 770...	...57	LED 220 lm	4 W	1.2

Decorative ground-recessed spotlights, rotationally symmetrical narrow distribution (RE)



8501RE/LED200-830 ETD 05	
Safety class	I
Protection rating	IP68
  	

Reference	TOC	...ETD ...57	Lamps / Luminaire luminous flux	Connected load	≈kg
8501RE/LED200-830...05	63 767...	...57	LED 220 lm	4 W	1.2
8501RE/LED200-840...05	63 768...	...57	LED 220 lm	4 W	1.2

Decorative ground-recessed spotlights



The Lutera ground-recessed spotlight sets architecture in scene with striking light accents and can be flexibly used thanks to two construction sizes and various light sources. All possible applications in terms of accents from the ground can be achieved. The sophisticated water-resistant construction ensures continuously reliable operation.

Accentuating: Functional and aesthetic lighting design for buildings and objects.

Flexible: Pivotal optics with various light distribution characteristics allow a wide design flexibility with maximum diversity of effects.

Carefree: Proven, robust technology for secure recessing where demands are high and confident operation over many years.

Efficient: Economic with low current consumption, and low maintenance with a long service life.

Large selection: A diversity of light sources and modular series design for greater planning flexibility.

Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks, light around the house, accent lighting.

Mounting type

For ground recessing. Suitable ground mounting enclosure included in scope of supply. The ground-recessed spotlight must be completed with a round or square stainless steel cover plate.

On-site, a foundation suitable for the load with adequate drainage must be ensured.

Optical systems

Optical system of anodised aluminium.

Can be pivoted through $\pm 15^\circ$.

With rotationally symmetrical narrow light distribution.

LED system

LED system configured with 3 or 6 LEDs.

...LED-B... With blue LEDs.

...LED-G... With green LEDs.

...LED-R... With red LEDs.

...LED-W... With white LEDs.

...8... Colour rendering index: Ra > 80.

...40... Light colour neutral white (nw), colour temperature 4000 K.

...30... Light colour warm white (ww), colour temperature 3000 K available on request.

Luminaire body

Spotlight housing and cover ring of die-cast aluminium, colour deep black, similar to RAL 9005, powder-coated. Cover ring is permanently fixed with locking screws and threaded inserts of stainless steel.

Cover of 15 mm thick, hardened glass, clear. Static load to 1500 kg. Can be rolled over to 2500 kg.

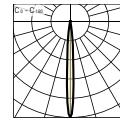
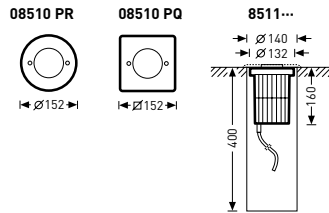
Ground recessing bowl of weather-resistant PVC tube. With luminaire mounting ring of glass-fibre reinforced PA6.

Electrical version

Wired ready for connection. With connection cable fed outwards, 2 x 1.5 mm², inner connection compartment sealed with epoxy resin.

...ET... With electronic transformer, switchable.

Ground-recessed spotlight, rotationally symmetric narrow distribution, pivotable (RES)



8511 RES/LED-B ET

Safety class I

Protection rating

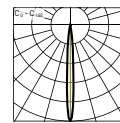
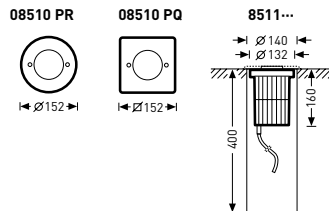
IP68



Reference ¹⁾	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8511 RES/LED-B...	43 309...	...40	LED 45 lm	6 W	2.5
8511 RES/LED-G...	43 307...	...40	LED 130 lm	6 W	2.5
8511 RES/LED-R...	43 306...	...40	LED 90 lm	5 W	2.5
8511 RES/LED 300-840	43 305...	...40	LED 300 lm	4 W	2.5

¹⁾ Suitable ground mounting enclosure included in scope of supply

Ground-recessed spotlight, rotationally symmetric narrow distribution, pivotable (RES)



8511 RES/LED 600-840 ET

Safety class I

Protection rating

IP68



Reference ¹⁾	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8511 RES/LED 600-840...	62 851...	...40	LED 600 lm	12 W	2.5

¹⁾ Suitable ground mounting enclosure included in scope of supply

Cover plates

Reference	TOC	Accessory description	≈kg
08510 PQ	43 317 00	Stainless steel cover plate, square, for Lutera 100	0.5
08510 PR	43 316 00	Stainless steel cover plate, round, for Lutera 100	0.4

Cover glasses

Reference	TOC	Accessory description	≈kg
08510 G	43 321 00	Cover glass, for Lutera 100	0.1
08510 GR	43 322 00	Cover glass, anti-slip, for Lutera 100	0.1

Replacement gasket

Reference	TOC	Accessory description	≈kg
08510 D	43 314 00	Replacement gasket for Lutera 100	0.1

Decorative ground-recessed spotlights



The Lutera ground-recessed spotlight sets architecture in scene with striking light accents and can be flexibly used thanks to two construction sizes and various light sources. All possible applications in terms of accents from the ground can be achieved. The sophisticated water-resistant construction ensures continuously reliable operation.

Accentuating: Functional and aesthetic lighting design for buildings and objects.

Flexible: Pivotal optics with various light distribution characteristics allow a wide design flexibility with maximum diversity of effects.

Carefree: Proven, robust technology for secure recessing where demands are high and confident operation over many years.

Efficient: Economic with low current consumption, and low maintenance with a long service life.

Large selection: A diversity of light sources and modular series design for greater planning flexibility.

Applications

Pedestrian zones, arcades, passages, paths in parks and green areas, residential facilities, stairs, access areas, car parks, light around the house, accent lighting.

Mounting type

For ground recessing. The ground-recessed spotlight must be completed with a round or square stainless steel cover plate. On-site, a foundation suitable for the load with adequate drainage must be ensured.

Optical systems

Optical system for high pressure discharge lamps and compact fluorescent lamps of anodised aluminium.

---AM--- With asymmetrical medium-wide light intensity distribution.

---RB--- With rotationally symmetrical wide light distribution.

---RBS--- With rotationally symmetrical wide light distribution. Optical system with lamp unit rotatable through +/- 15°, lockable in 5° steps.

---RE--- With rotationally symmetrical narrow angle light distribution.

---RES--- With rotationally symmetrical narrow angle light distribution. Optical system with lamp unit rotatable through +/- 10°, lockable in 5° steps.

---RMS--- With rotationally symmetrical medium-wide light distribution. Optical system with lamp unit rotatable through +/- 15°, lockable in 5° steps.

LED system

---RES--- LED system with 9 LEDs. +/- 15° steplessly pivotable.

---RE/LED--- Chip on Board LED.

---LED-B--- With blue LEDs.

---LED-G--- With green LEDs.

---LED-R--- With red LEDs.

---LED-W--- With white LEDs.

---8--- Colour rendering index: Ra > 80.

---40--- Light colour neutral white (nw), colour temperature 4000 K.

---30--- Light colour warm white (ww), colour temperature 3000 K available on request.

Luminaire body

Spotlight housing and cover ring of die-cast aluminium, colour deep black, similar to RAL 9005, powder-coated.

Cover ring is permanently fixed with locking screws and threaded inserts of stainless steel.

Cover of 15 mm thick, hardened glass, clear. Can be rolled over at walking pace to 2000 kg.

Electrical version

Wired ready for connection. With connection cable fed outwards, sealed with appropriate protection rating.

Inner connection compartment sealed with epoxy resin.

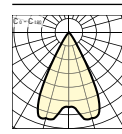
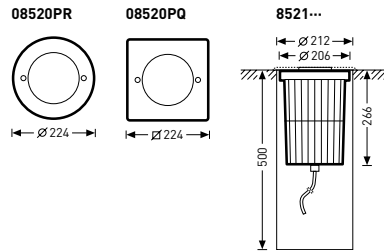
---K--- With inductive ballast.

---E--- With electronic ballast.

---ET--- With electronic transformer, switchable.

Please order ground recessing bowl separately as accessory. Ground recessing bowl of weather-resistant PVC tube. With luminaire mounting ring of glass-fibre reinforced PA6.

Ground-recessed spotlights, asymmetric medium wide distribution (AM)



8521 AM/35HIT K

Safety class

Protection rating

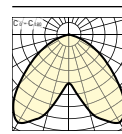
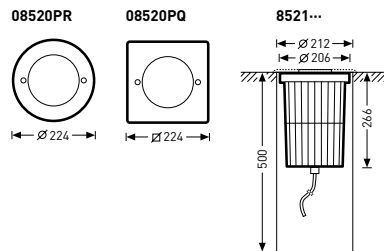
IP68



Reference ¹⁾	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8521 AM/35HIT...	43 334...	...02	1 x HIT-CRI 35	4.6
8521 AM/70HIT...	43 335...	...02	1 x HIT-CRI 70	5.0

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Ground-recessed spotlights, rotationally symmetric wide distribution (RB)



8521 RB/TCT26/32 E

Safety class

Protection rating

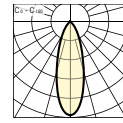
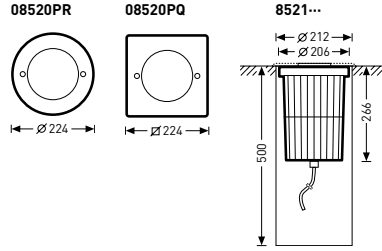
IP68



Reference ¹⁾	TOC	...E ...04	Lamps / Luminaire luminous flux	≈kg
8521 RB/TCT26/32...	43 336...	...04	1 x TC-T 26/32	3.7

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Ground-recessed spotlights, rotationally symmetric wide distribution, pivotable (RBS)

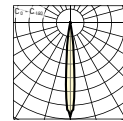
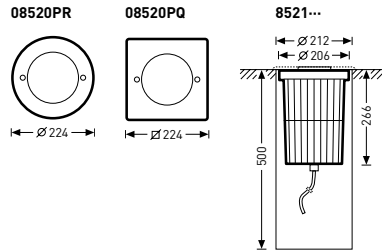


8521 RBS/70HST-DE K	
Safety class	I
Protection rating	IP68

Reference ¹⁾	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8521 RBS/70HST-DE...	43 333...	...02	1 x HST-DE 70	5.4

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Ground-recessed spotlights, rotationally symmetric narrow distribution, pivotable (RES)

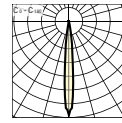
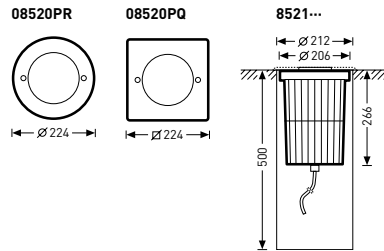


8521 RES/LED-B ET	
Safety class	I
Protection rating	IP68

Reference ¹⁾	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8521 RES/LED-B...	43 308...	...40	LED 150 lm	18 W	3.8
8521 RES/LED-G...	43 312...	...40	LED 450 lm	18 W	3.8
8521 RES/LED-R...	43 311...	...40	LED 300 lm	17 W	3.8
8521 RES/LED 900-840	43 310...	...40	LED 900 lm	16 W	3.8

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Ground-recessed spotlight, rotationally symmetrical narrow distribution (RE)



8521RE/LED1800-840 ET

Safety class

Protection rating

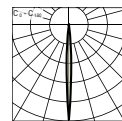
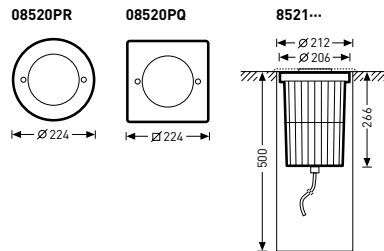
IP68



Reference ¹⁾	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8521RE/LED1800-840...	62 852...	...40	LED 1800 lm	17 W	3.8

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Ground-recessed spotlights, rotationally symmetric narrow distribution, pivotable (RES)



8521 RES/20HIT E

Safety class

Protection rating

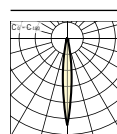
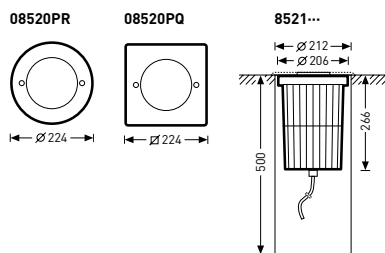
IP68



Reference ¹⁾	TOC	...E ...04	...K ...02	Lamps / Luminaire luminous flux	≈kg
8521 RES/20HIT...	59 351...	...04	-	1 x HIT-CRI 20	4.0
8521 RES/35HIT...	43 329...	-	...02	1 x HIT-CRI 35	4.8
8521 RES/70HIT...	43 331...	-	...02	1 x HIT-CRI 70	5.3

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Ground-recessed spotlights, rotationally symmetric medium wide distribution, pivotable (RMS)



8521 RMS/35HIT K	
Safety class	I
Protection rating	IP68

Reference ¹⁾	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8521 RMS/35HIT...	43 330...	...02	1 x HIT-CRI 35	4.8
8521 RMS/70HIT...	43 332...	...02	1 x HIT-CRI 70	5.3

¹⁾ Must be completed with further components (mounting housing, cover plate or protective grid)

Recessing accessory

Reference	TOC	Accessory description	≈kg
08520 ET	43 338 00	Mounting housing, for Lutera 200	0.8

Cover plates



Reference	TOC	Accessory description	≈kg
08520 PQ	43 340 00	Stainless steel cover plate, square, for Lutera 200	0.9
08520 PR	43 339 00	Stainless steel cover plate, round, for Lutera 200	0.6

Colour filters

Reference	TOC	Accessory description	≈kg
08520 F-blue	43 350 00	Colour filter, blue, for Lutera 200	0.1
08520 F-green	43 349 00	Colour filter, green, for Lutera 200	0.1
08520 F-red	43 347 00	Colour filter, red, for Lutera 200	0.1
08520 F-yellow	43 348 00	Colour filter, yellow, for Lutera 200	0.1

Cover glasses

Reference	TOC	Accessory description	≈kg
08520 G	43 345 00	Cover glass, for Lutera 200	0.3
08520 GR	43 346 00	Cover glass, anti-slip, for Lutera 200	0.3

Replacement gasket

Reference	TOC	Accessory description	≈kg
08520 D	43 337 00	Replacement gasket, for Lutera 200	0.1

Decorative post-top luminaires



Applications

Collection roads, residential roads, low-traffic roads, pedestrian zones, paths in parks and green areas, residential facilities, stairs, access areas, car parks.

Mounting type

Emporium/... Post-top luminaire for post spigot $\varnothing 76$ mm.

Emporium 500... Including post.

...-FP... Mounting via fastening of flange plate to sufficiently firm underground.

...-E... With continuous bitumised underground support for installing into substrate.

Emporium W... Wall arm of die-cast aluminium with stainless steel mounting plate.

Optical systems

Optical system of highly specular, faceted, anodised aluminium with rotationally symmetrical wide angle light distribution.

...W... With asymmetrical wide light intensity distribution.

Luminaire body

Luminaire housing and luminaire canopy of die-cast aluminium.

Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant. Cover glass of highly impact-resistant polycarbonate, transparent.

Relamping via release and removal of luminaire canopy.

Emporium 500... Supporting column in matching design of extruded aluminium profile.

Windage area $F_w = 0.650$ m².

Emporium/... Windage area $F_w = 0.230$ m².

Emporium W... Wall arm of die-cast aluminium with stainless steel mounting plate.

Emporium W/... Wall luminaire with straight wall bracket.

...W-DB... Wall luminaire with round wall bracket.

Electrical version

Electrical connection to 3-pole connection terminal to 2.5 mm².

Emporium 500... Electrical connection to connection cable behind a flush-fitting door. With C-rail in supporting column for mounting of a junction box to be ordered separately.

...L... With inductive ballast.



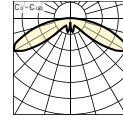
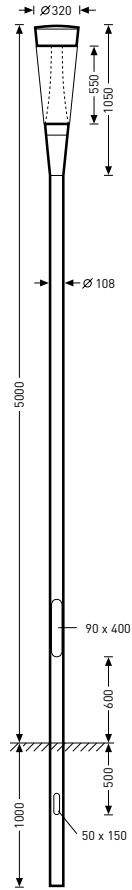
An attention-grabber. As the name says, this post-top luminaire likes being the centre of attraction – both during the day and at night. Its form is predestined for the illumination of modern surfaces as well as old-town surroundings.

Effective illumination. The combination of a specially developed reflector system and the light controlling form of the inner attachment tube allows rotationally symmetrical illumination of the working area.

In addition to the specified configurations, a direct distribution LED system as an MLT version (Multi-Lens Technology) can be integrated. High-efficiency, UV- and temperature-resistant lens systems in configurations of four are used here. Please contact us about your project solution.



Decorative post-top luminaires, including post with underground support (E)



Emporium 500-E/1x150HIT/HST L F8

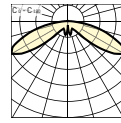
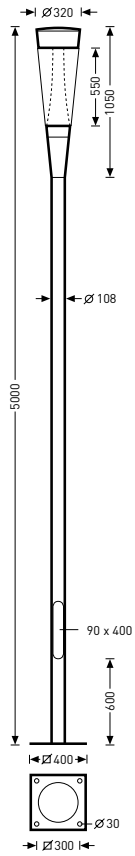
Safety class I

Protection rating IP65



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Emporium 500-E/1x150HIT/HST...F8	53 433...	...01	1 x HST/HIT 150	76.6
Emporium 500-E/1x70HIT/HST...F8	53 436...	...01	1 x HST/HIT 70	76.0

Decorative post-top luminaires, including post with flange plate (FP)



Emporium 500-FP/1x150HIT/HST L F8

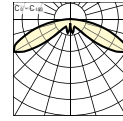
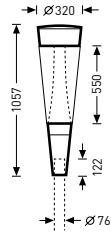
Safety class I

Protection rating IP65



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Emporium 500-FP/1x150HIT/HST...F8	53 440...	...01	1 x HST/HIT 150	81.6
Emporium 500-FP/1x70HIT/HST...F8	53 443...	...01	1 x HST/HIT 70	81.0

Decorative post-top luminaires

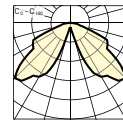
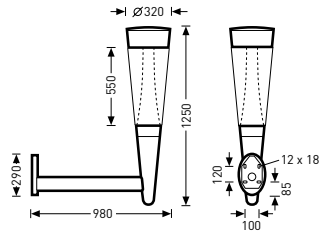


Emporium/1x150HIT/HST L F8	
Safety class	I
Protection rating	IP65
Mounting height	5-6 m



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Emporium/1x150HIT/HST...F8	56 674...	...01	1 x HST/HIT 150	18.6
Emporium/1x70HIT/HST...F8	56 673...	...01	1 x HST/HIT 70	18.0

Decorative wall luminaires with straight wall bracket

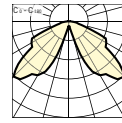
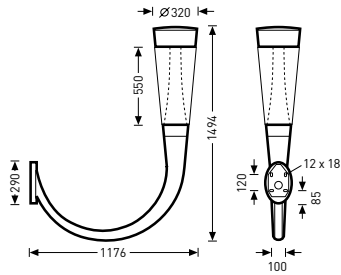


Emporium W/1x150HIT/HST L F8	
Safety class	I
Protection rating	IP65



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Emporium W/1x150HIT/HST...F8	53 455...	...01	1 x HST/HIT 150	24.8
Emporium W/1x70HIT/HST...F8	53 456...	...01	1 x HST/HIT 70	24.2

Decorative wall luminaires with round wall bracket (DB)



Emporium W-DB/1x150HIT/HST L F8

Safety class I

Protection rating IP65



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Emporium W-DB/1x150HIT/HST...F8	53 457...	...01	1 x HST/HIT 150	28.9
Emporium W-DB/1x70HIT/HST...F8	53 458...	...01	1 x HST/HIT 70	28.3

Post mounting elements



Reference	TOC	Accessory description	≈kg
Emporium ZAK2	53 322 00	Twin arm-bracket, galvanised	20.1
Emporium ZAK3	53 323 00	Triple arm-bracket, galvanised	30.0

Posts

Reference	TOC	Accessory description	≈kg
0801 MGK-FP/30-108	56 542 00	Conical post with flange plate for post mounting element, galvanised	84.3

Decorative post-top and bollard luminaires



An award-winning design. By architects for architects. The Lionda family has been designed from a lively dialogue with the architect David Chipperfield. Lionda has been designed for the illumination of paths, green areas and representative spaces. The latest addition to the family, Lionda 90, expands the application with its low construction height to achieve efficient lighting of paths near to buildings with LED.

Discreet elegance: Attractive thanks to high design quality and fine material.

Award-winning design: Winner of the reddot award.

Attractive lighting effect: Paths and driveways are upgraded and safely illuminated.

Efficient: Economic with low current consumption, and low maintenance with a long service life.

Carefree: Install once, benefit for years.

Applications

Main roads, municipal roads, collection roads, residential roads, low-traffic roads, pedestrian zones, paths in parks and green areas, residential facilities, stairs, access areas, car parks, light around the house.

Mounting type

Lionda/... Post-top luminaire for post spigot Ø 76 mm. Wall adapter ZAW of die-cast aluminium, enables wall mounting.

Lionda 90... Mounting via integrated baseplate for direct mounting to firm underground or with use of an underground support in the substrate to be ordered separately.

Optical systems

Optical system of thermally durable plastic with high quality surface coating. With asymmetrical wide light intensity distribution.

Lionda 90... Specular reflector of anodised aluminium.

LED system

Lionda 90...LED... LED system configured with 7 LEDs. Neutral white light colour, colour temperature 4000 K. Service life 50,000 operating hours.

Luminaire body

Luminaire housing of die-cast aluminium. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant. Cover of flat, heat-treated, non-laminated safety glass with black screen-printing sealed in luminaire housing. Relamping after release of rotary catch and folding up of luminaire canopy.

Lionda 90... Supporting column of extruded aluminium section. With welded baseplate of die-cast aluminium. Cover sealed in swing-down die-cast aluminium ring. Relamping via unfastening of two stainless steel screws and folding down of die-cast aluminium ring.

Lionda/... Windage area $F_w = 0.070 \text{ m}^2$.

Electrical version

Lionda 90... Electrical connection to 3-pole connection terminal to 2.5 mm².

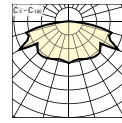
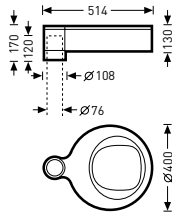
Lionda/... Post-top luminaire with connected cable, length 6500 mm.

...L... With inductive ballast.

...E... With electronic ballast.

...ET... With electronic transformer, switchable.

Decorative post-top luminaires



Lionda/1x140HIT-CE/OD E 26	
Safety class	I
Protection rating	IP65
Mounting height	4-6 m



Reference	TOC	...E ...04	...L ...01	Lamps / Luminaire luminous flux	≈kg
Lionda/1x140HIT-CE/OD...26	54 206...	...04	-	1 x HIT-CE/OD 140	9.1
Lionda/1x150HIT/HST...26	54 209...	-	...01	1 x HST/HIT 150	9.7
Lionda/1x250HIT/HST...26	54 212...	-	...01	1 x HST/HIT 250	11.3
Lionda/1x70HIT/HST...26	56 658...	-	...01	1 x HST/HIT 70	8.4

Posts

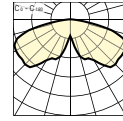
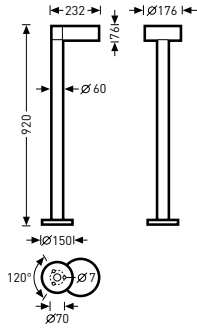
Reference	TOC	Accessory description	≈kg
0801 MGZ108-FP/40-76 26	56 480 00	Aluminium post with flange plate, length 4 m	22.7
0801 MGZ108/40-76 26	56 477 00	Aluminium post with underground support, length 4 m	23.9

Wall adapter



Reference	TOC	Accessory description	≈kg
Lionda ZAW 26	53 344 00	Wall adapter	1.4

Decorative bollard luminaires



Lionda 90/LED 700 nw ET 26	
Safety class	I
Protection rating	IP65

Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
Lionda 90/LED 700 nw...26	59 443...	...40	-	LED 700 lm	8.5 W	8.7
Lionda 90/1x20HIT...26	56 597...	-	...04	1 x HIT 20		8.7
Lionda 90/1x35HIT...26	56 599...	-	...04	1 x HIT 35		8.7

Underground support

Reference	TOC	Accessory description	≈kg
0804 E-5	56 422 00	Underground support, galvanised	2.6

Decorative bollard and post-top luminaires



Applications

Main roads, municipal roads, collection roads, residential roads, low-traffic roads, pedestrian zones, paths in parks and green areas, residential facilities, stairs, access areas, car parks, light around the house.

Mounting type

Palme 270/330... including post.

....**E**... With continuous bitumised underground support for installing into substrate.

....**FP**... Mounting via fastening of flange plate to sufficiently firm underground.

Palme 120... Installation of bollard luminaire via direct fastening of baseplate to solid underground or with use of an underground support in the substrate to be ordered separately.

Palme W... For direct wall mounting.

Optical systems

Optical system of primary reflector of anodised aluminium in closed lamp compartment and white-coated reflection surface of luminaire body functioning as secondary reflector.

Luminaire body

Luminaire head of die-cast aluminium. Colour anthracite, similar to DB 703 with metal effect, powder-coated, highly weather resistant.

Lamp compartment with primary reflector, closed with die-cast aluminium cover ring with sealed non-laminated safety glass. Relamping via release of cover ring.

...**FP**... Post of extruded aluminium profile with welded flange plate of die-cast aluminium.

....**E**... Post of extruded aluminium profile, with continuously bitumised underground support of aluminium profile.

Palme 120... Relamping via opening of rear inspection door and tool-free swinging out of electrical components.

Palme 270... Windage area $F_w = 0.290 \text{ m}^2$.

Palme 330... Windage area $F_w = 0.500 \text{ m}^2$.

Electrical version

Electrical connection to 3-pole connection terminal near post door. With C-rail for mounting of a junction box to be ordered separately.

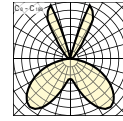
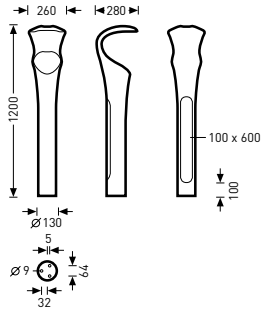
Palme 120... Electrical connection to 3-pole connection terminal to $2 \times 4 \text{ mm}^2$.

Palme W... Electrical connection to 3-pole connection terminal to 2.5 mm^2 .

...**L**... With inductive ballast.

Mains No power supply equipment required, lamp operation directly from mains power.

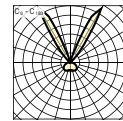
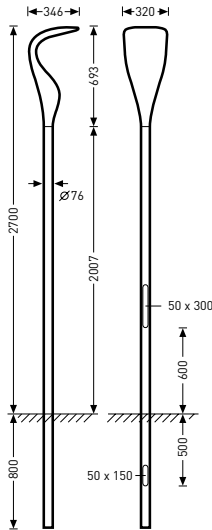
Decorative bollard luminaires



Palme 120/1x70HIT/HST L G3	
Safety class	I
Protection rating	IP65

Reference	TOC	...L ...01	Mains ...10	Lamps / Luminaire luminous flux	≈kg
Palme 120/1x70HIT/HST...G3	54 005...	...01	-	1 x HST/HIT 70	15.5
Palme 120/E27 1x100 QT32 G3	55 886...	-	...10	1 x QT 100	15.0

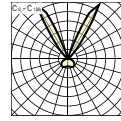
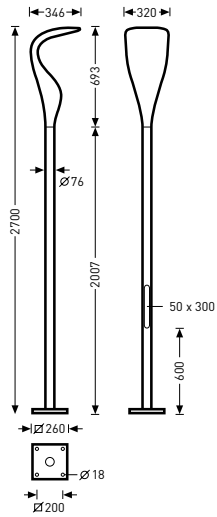
Decorative post-top luminaires, including post with underground support (E)



Palme 270-E/1x70HIT/HST L G3	
Safety class	I
Protection rating	IP65

Reference	TOC	...L ...01	Mains ...10	Lamps / Luminaire luminous flux	≈kg
Palme 270-E/1x70HIT/HST...G3	54 008...	...01	-	1 x HST/HIT 70	19.9

Decorative post-top luminaires, including post with flange plate (FP)



Palme 270-FP/1x70HIT/HST L G3

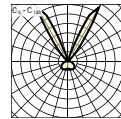
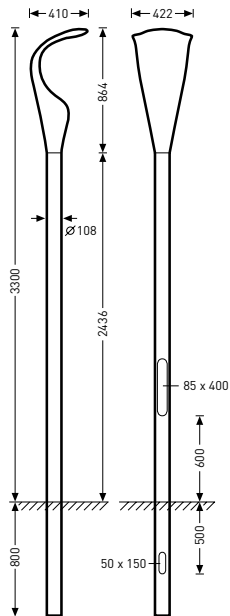
Safety class I

Protection rating IP65



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Palme 270-FP/1x70HIT/HST...G3	54 012...	...01	1 x HST/HIT 70	24.9

Decorative post-top luminaires, including post with underground support (E)



Palme 330-E/1x70HIT L G3

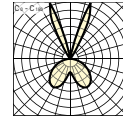
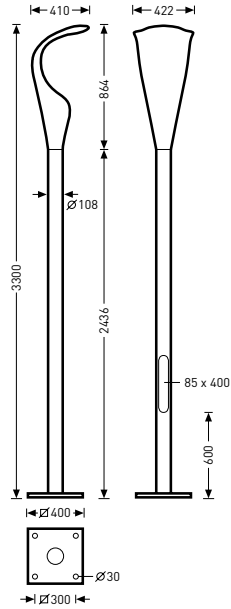
Safety class I

Protection rating IP65



Reference	TOC	...L ...01	Lamps / Luminaire luminous flux	≈kg
Palme 330-E/1x70HIT...G3	54 015...	...01	1 x HIT 70	26.7

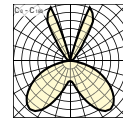
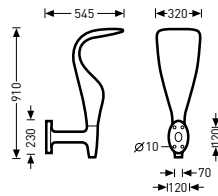
Decorative post-top luminaires, including post with flange plate (FP)



Palme 330-FP/1x70HIT L G3	
Safety class	I
Protection rating	IP65

Reference	TOC	...L	Lamps / Luminaire luminous flux	=kg
Palme 330-FP/1x70HIT...G3	54 018...	...01	1 x HIT 70	30.5

Decorative wall luminaires



Palme W/1x70HIT/HST L G3	
Safety class	I
Protection rating	IP65

Reference	TOC	...L	Lamps / Luminaire luminous flux	=kg
Palme W/1x70HIT/HST...G3	54 034...	...01	1 x HST/HIT 70	12.0

Underground support

Reference	TOC	Accessory description	≈kg
0804 E-10	56 426 00	Underground support, galvanised	3.0

Compact spotlights



Highlighting objects, surfaces and buildings – with Faciella LED the path to perfect light has never been simpler. Completely different lighting tasks can be solved with a uniform design. The high-performance and energy-efficient projector is available in several construction sizes and with various luminous flux packages and beam angles for flexible use. The manually adjustable inclination angle simplifies precise targeting of the projector.

Three construction sizes. One single design: The Faciella LED projector is available in three sizes to effortlessly illuminate objects, surfaces and buildings of various types and sizes.

Perfectly tailored light: Various luminous flux packages and beam angles enable the solving of different lighting tasks to emphasise the most attractive architectural features.

Simple installation. Minimal effort: The Faciella LED is supplied with a ready-to-connect mains connection cable so that the luminaire does not need to be opened during installation. This both simplifies and speeds up the installation process.

Applications

Arcades, pedestrian zones, passages, light around the house, accent lighting.

Optical systems

Optical system of aluminium with reflection-intensifying coating.

...**RB**... With rotationally symmetrical wide angle light distribution.

...**RM**... With symmetric medium-wide light distribution.

...**RT**... With rotationally symmetric narrow light distribution.

...**RE**... With rotationally symmetrical narrow angle light distribution.

LED system

Faciella 08... LED system consisting of 3 LED.

Faciella 15... LED system consisting of 9 LED.

Faciella 20... LED system consisting of 18 LED.

Faciella 20... LED system consisting of Chip-On-Board (COB) version.

Specific parameters for defining LED service life: L80, LED mortality B10, service life 50.000 operating hours.

Colour rendering index Ra > 80.

...**30**... Light colour warm white (ww), colour temperature 3000 K.

...**40**... Light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Spotlight body of die-cast aluminium, colour of luminaire body anthracite, similar to DB 703 with metal effect, highly weather resistant, powder-coated.

Pivotable, swivel range 195°. With flat cover, extra clear.

Electrical version

Factory-equipped with 5000 mm connection cable.

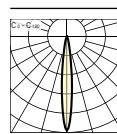
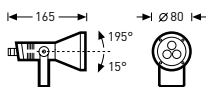
Faciella 08... Cable glands for connection cable Pg9, Ø 5.5 mm - 10 mm.

Faciella 15... Cable glands for connection cable Pg9, Ø 5.5 mm - 10 mm.

...**E**... With electronic ballast.

...**ET**... With electronic transformer, switchable.

Compact spotlights, Ø 80 mm



Faciella 08 RT/200-830 ET 26

Safety class

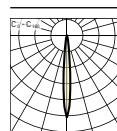
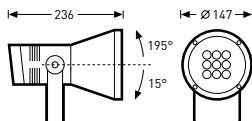
Protection rating

IP65



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
Faciella 08 RT/200-830...26	63 293...	...40	LED 450 lm	5 W	0.8
Faciella 08 RT/220-840...26	63 294...	...40	LED 450 lm	5 W	0.8
Faciella 08 RM/200-830...26	63 295...	...40	LED 450 lm	5 W	0.8
Faciella 08 RM/220-840...26	63 296...	...40	LED 450 lm	5 W	0.8
Faciella 08 RB/200-830...26	63 297...	...40	LED 450 lm	5 W	0.8
Faciella 08 RB/220-840...26	63 298...	...40	LED 450 lm	5 W	0.8

Compact spotlights, Ø 150 mm



Faciella 15 RE/600-830 ET 26

Safety class

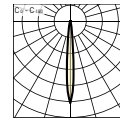
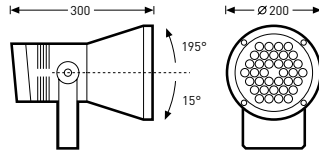
Protection rating

IP65



Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
Faciella 15 RE/600-830...26	63 299...	...40	-	LED 600 lm	12 W	5.2
Faciella 15 RE/650-840...26	63 300...	...40	-	LED 650 lm	12 W	5.2
Faciella 15 RM/600-830...26	63 301...	...40	-	LED 600 lm	12 W	5.2
Faciella 15 RM/650-840...26	63 302...	...40	-	LED 650 lm	12 W	5.2
Faciella 15 RB/600-830...26	63 303...	...40	-	LED 600 lm	12 W	5.2
Faciella 15 RB/650-840...26	63 304...	...40	-	LED 650 lm	12 W	5.2
Faciella 15 RE/20HIT-TC-CE...26	63 305...	-	...04	1 x HIT-TC-CE 20	20 W	4.2

Compact spotlights, Ø 200 mm



Faciella 20 RE/3500-830 ET 26

Safety class

I

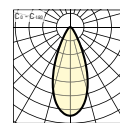
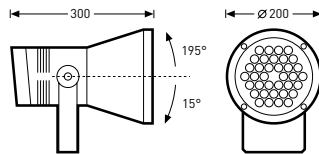
Protection rating

IP65



Reference	TOC	...ET ...40	...E ...04	Lamps / Luminaire luminous flux	Connected load	≈kg
Faciella 20 RE/3500-830...26	63 306...	...40	-	LED 3500 lm	42 W	4.8
Faciella 20 RE/3800-840...26	63 307...	...40	-	LED 3800 lm	42 W	4.8
Faciella 20 RB/3500-830...26	63 308...	...40	-	LED 3500 lm	42 W	4.8
Faciella 20 RB/3800-840...26	63 309...	...40	-	LED 3800 lm	42 W	4.8
Faciella 20 RE/2400-830...26	63 310...	...40	-	LED 2400 lm	45 W	4.8
Faciella 20 RE/2600-830...26	63 311...	...40	-	LED 2600 lm	45 W	4.8
Faciella 20 RM/2400-830...26	63 312...	...40	-	LED 2400 lm	45 W	4.8
Faciella 20 RM/2600-830...26	63 313...	...40	-	LED 2600 lm	45 W	6.1
Faciella 20 RB/2400-830...26	63 314...	...40	-	LED 2400 lm	45 W	4.8
Faciella 20 RB/2600-830...26	63 315...	...40	-	LED 2600 lm	45 W	4.8
Faciella 20 RT/35HIT-TC-CE...26	63 316...	-	...04	1 x HIT-TC-CE 35	35 W	4.8
Faciella 20 RT/70HIT-TC-CE...26	63 317...	-	...04	1 x HIT-TC-CE 70	70 W	4.8
Faciella 20 RM/35HIT-TC-CE...26	63 318...	-	...04	1 x HIT-TC-CE 35	35 W	4.8
Faciella 20 RM/70HIT-TC-CE...26	63 319...	-	...04	1 x HIT-TC-CE 70	70 W	4.8

Compact spotlights, Ø 200 mm, for RGB controls



Faciella 20 RB/RGB 26

Safety class

I

Protection rating

IP65



Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	≈kg
Faciella 20 RB/RGB 26	63 321...	...50	LED RGB	4.8
Faciella 20 RE/RGB 26	63 320...	...50	LED RGB	4.8

Post connections

Reference	TOC	Accessory description	≈kg
Faciella MB 102	63 325 00	Post fixing for compact spotlight Faciella.	2.0
Faciella MB 60	63 324 00	Post fixing for compact spotlight Faciella.	2.0

Ground stakes

Reference	TOC	Accessory description	≈kg
Faciella 08 ES	63 322 00	Faciella 08 Ground stake of steel, galvanised.	0.2
Faciella 15/20 ES	63 323 00	Faciella 15/20 Ground stake of steel, galvanised.	0.2

Compact spotlights



A luminaire that brings light to a point. An application spectrum that complies with individual requirements thanks to high flexibility and light effects that keep the eye focused. The long-life LED configurations for white, blue, green or red light mean effective and efficient flexibility for individual uses. Setting of the inclination and rotation angle of the spotlight head enables highly precise alignment for optimal illumination of objects and, thanks to IP66 protection, Lumena 150 is highly resistant to dust and humidity.

Focused: Various optical systems are available for direct light distribution.

Versatile: White and coloured LEDs supply the right light.

Long-life: Durable materials and the very high protection rating support reliable operation.

Rapid: Setting of the target direction is fixed with a single screw for the rotation and inclination angle.

Applications

Arcades, pedestrian zones, passages, light around the house, accent lighting.

Mounting type

For direct mounting to firm underground. With ground stake (accessory) suitable for installation into substrate. Further accessories: Pole clamp of stainless steel, colour metallic grey, similar to RAL 9006, highly weather resistant, powder-coated, for mounting of spotlight to post or tube. Clamping range \varnothing 40-130 mm.

Optical systems

Optical system of aluminium with reflection-intensifying coating.

...**LED**... Consists of highly efficient, UV and temperature-resistant lens systems.

...**RB**... With rotationally symmetrical wide angle light distribution and two supplementary spotlight elements for object and facade illumination.

...**RE**... With rotationally symmetrical narrow angle light distribution.

...**RT**... With rotationally symmetric narrow light distribution.

LED system

With 12 LEDs.

...**LED-W**... With white LEDs.

...**LED-B**... With blue LEDs.

...**LED-G**... With green LEDs.

...**LED-R**... With red LEDs.

Luminaire body

Floodlight housing of die-cast aluminium, metallic grey, similar to RAL 9006, powder-coated, highly weather resistant. Rotatable and pivotable, pivoting range 135°, turning range 300°, with rotation guard.

Control gear box as base element of die-cast aluminium, metallic grey, similar to RAL 9006, powder coated, highly weather-resistant. Thermally isolated.

Cover of non-laminated safety glass sealed in die-cast frame and mounted to spotlight housing with 4 stainless steel screws. Fastening screws outside of sealed area. Windage area $F_w = 0.041 \text{ m}^2$.

8631...A... Compact spotlight with bracket Windage area $F_w = 0.062 \text{ m}^2$.

Electrical version

Electrical connection to 3-pole connection terminal to 2.5 mm².

With two M 20 cable entries for 7 to 10 mm cable diameters.

...**K**... With inductive ballast, parallel-compensated.

...**E**... With electronic ballast.

...**ET**... With electronic transformer, switchable.

Mains No power supply equipment required, lamp operation directly from mains power.



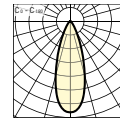
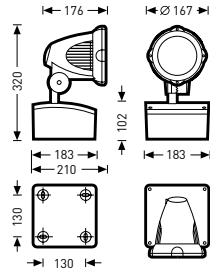
With Lumena 150, creative presentations with light are almost limitless: inviting, exciting and also eye-catching. The reason for this flexibility for design is the highly diverse options with high quality optics.

Self-engaging swivel range for permanent fixing of the setting. Stainless steel screws with stainless steel inserts in the cast part for easy handling. High protection rating for low maintenance operation.

Fixing screws are outside of the sealing system for easy fixing without impairing sealing. Wide rotating and pivoting range for optimal alignment.



Compact spotlights, rotationally symmetric wide distribution (RB)



8631 RB/LED-B ET

Safety class

Protection rating

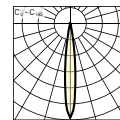
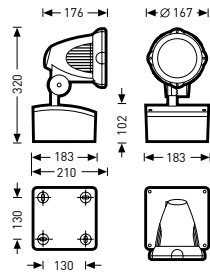
I

IP66



Reference	TOC	...ET ...40	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	Connected load	≈kg
8631 RB/LED-B...	56 591...	...40	-	-	-	LED 200 lm	16 W	3.7
8631 RB/LED-G...	56 588...	...40	-	-	-	LED 750 lm	16 W	3.7
8631 RB/LED-R...	56 589...	...40	-	-	-	LED 350 lm	16 W	3.7
8631 RB/LED-W...	56 587...	...40	-	-	-	LED 750 lm	16 W	3.7
8631 RB/150HIT...	50 176...	-	...04	-	-	1 x HIT 150		4.7
8631 RB/35-90QT12...	50 182...	...40	-	-	-	1 x QT-12 35/50/75/90		4.6
8631 RB/35HIT...	50 172...	-	-	...02	-	1 x HIT 35		5.0
8631 RB/60-100QT18	50 180...	-	-	-	...10	1 x QT-18 60/75/100		4.5
8631 RB/70HIT...	50 174...	-	-	...02	-	1 x HIT 70		5.0
8631 RB/TCT13...	50 177...	-	...04	-	-	1 x TC-T 13		4.7
8631 RB/TCT18...	50 178...	-	...04	-	-	1 x TC-T 18		4.7

Compact spotlights, rotationally symmetric narrow distribution (RE)



8631 RE/LED-B ET

Safety class

Protection rating

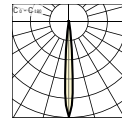
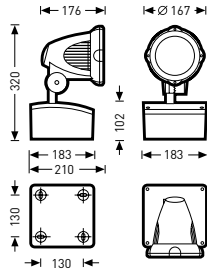
I

IP66



Reference	TOC	...ET ...40	...E ...04	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	Connected load	≈kg
8631 RE/LED-B...	56 584...	...40	-	-	-	LED 250 lm	16 W	3.7
8631 RE/LED-G...	56 585...	...40	-	-	-	LED 800 lm	16 W	3.7
8631 RE/LED-R...	56 586...	...40	-	-	-	LED 400 lm	16 W	3.7
8631 RE/LED-W...	56 583...	...40	-	-	-	LED 800 lm	16 W	3.7
8631 RE/150HIT...	50 175...	-	...04	-	-	1 x HIT 150		4.7
8631 RE/35-90QT12...	50 181...	...40	-	-	-	1 x QT-12 35/50/75/90		4.6
8631 RE/35HIT...	50 171...	-	-	...02	-	1 x HIT 35		5.0
8631 RE/60-100QT18	50 179...	-	-	-	...10	1 x QT-18 60/75/100		4.5
8631 RE/70HIT...	50 173...	-	-	...02	-	1 x HIT 70		5.0

Compact spotlights, rotationally symmetric narrow distribution (RT)



8631 RT/LED-B ET

Safety class I

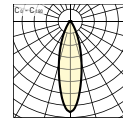
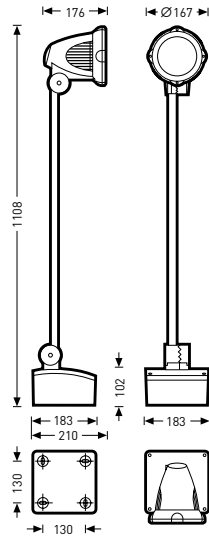
Protection rating

IP66



Reference	TOC	...ET ...40	...E ...04	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
8631 RT/LED-B...	56 820...	...40	-	-	LED 250 lm	16 W	3.7
8631 RT/LED-G...	56 821...	...40	-	-	LED 850 lm	16 W	3.7
8631 RT/LED-R...	56 822...	...40	-	-	LED 450 lm	16 W	3.7
8631 RT/LED-W...	56 819...	...40	-	-	LED 850 lm	16 W	3.7
8631 RT/150HIT...	58 324...	-	...04	-	1 x HIT 150		4.6
8631 RT/35HIT...	58 325...	-	-	...02	1 x HIT 35		3.7
8631 RT/70HIT...	58 326...	-	-	...02	1 x HIT 70		4.3

Compact spotlights with bracket (A), rotationally symmetric wide distribution (RB)



8631 RB-A/LED-W ET

Safety class

I

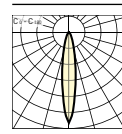
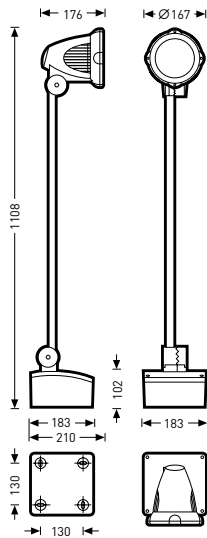
Protection rating

IP66



Reference	TOC	...ET	...E	...K	Mains	Lamps / Luminaire	Connected load	≈kg
		...40	...04	...02				
8631 RB-A/LED-W...	56 590...	...40	-	-	-	LED 750 lm	16 W	4.3
8631 RB-A/150HIT...	50 188...	-	...04	-	-	1 x HIT 150		5.7
8631 RB-A/35-90QT12...	50 194...	...40	-	-	-	1 x QT-12 35/50/75/90		5.6
8631 RB-A/35HIT...	50 184...	-	-	...02	-	1 x HIT 35		6.0
8631 RB-A/60-100QT18	50 192...	-	-	-	...10	1 x QT-18 60/75/100		5.5
8631 RB-A/70HIT...	50 186...	-	-	...02	-	1 x HIT 70		6.0
8631 RB-A/TCT13...	50 189...	-	...04	-	-	1 x TC-T 13		5.7
8631 RB-A/TCT18...	50 190...	-	...04	-	-	1 x TC-T 18		5.7

Compact spotlights with bracket (A), rotationally symmetric narrow distribution (RE)



8631 RE-A/150HIT E

Safety class I

Protection rating

IP66



Reference	TOC	...ET	...E	...K	Mains	Lamps / Luminaire luminous flux	≈kg
		...40	...04	...02			
8631 RE-A/150HIT...	50 187...	-	...04	-	-	1 x HIT 150	5.7
8631 RE-A/35-90QT12...	50 193...	...40	-	-	-	1 x QT-12 35/50/75/90	5.6
8631 RE-A/35HIT...	50 183...	-	-	...02	-	1 x HIT 35	6.0
8631 RE-A/60-100QT18	50 191...	-	-	-	...10	1 x QT-18 60/75/100	5.5
8631 RE-A/70HIT...	50 185...	-	-	...02	-	1 x HIT 70	6.0

Ground stake



Reference	TOC	Accessory description	≈kg
0863 ES	51 344 00	Ground stake	0.5

Post strap



Reference	TOC	Accessory description	≈kg
0860 MS	51 343 00	Post strap	1.5

Protective screen

Reference	TOC	Accessory description	≈kg
0863 G	51 351 00	Protective screen	0.1

Ribbed glass

Reference	TOC	Accessory description	≈kg
0863 RG	51 349 00	Ribbed glass	0.2

Shield

Reference	TOC	Accessory description	≈kg
0863 ZB	51 350 00	Cylinder shield	0.1

Lamella shield

Reference	TOC	Accessory description	≈kg
0863 LB	51 352 00	Lamella shield	0.1



Floodlight for accent lighting and wide-area illumination



Light and slender appearance, sturdy and functional design – these are the typical characteristics of the Lumena floodlights, but they are not the only ones. Separate pole fixings for single or multiple floodlight arrangements predestine Lumena 400 for illuminating streets and squares.

Accentuating: Functional and aesthetic lighting design for buildings and objects.

Safe: Homogeneous lighting of the roads and squares to be illuminated, guaranteeing high levels of safety.

Flexible: Seven different light emission characteristics offer maximum flexibility.

Long-life and tough: Long service life in rough surroundings thanks to high quality materials.

Large selection: Lamping diversity and a wide range of optics enable high planning flexibility.

Applications

Pedestrian zones, arcades, passages, light around the house, car parks, works roads, harbour facilities, shipping facilities, storage locations, container areas, golf courses, cross country ski courses, accent lighting.

Mounting type

Fixing bracket of aluminium for mounting to horizontal surfaces, ceilings and posts with use of accessories.

Optical systems

Optical system of anodised aluminium.

...**LED**... Consists of highly efficient, UV and temperature-resistant lens systems.

...**AB**... With asymmetrical wide light intensity distribution. For illumination of roads and squares.

...**AM**... With extremely asymmetric medium-wide light intensity distribution. For illumination of squares and floodlighting. As wide beam floodlight with 50° (8611...) or 55° (8612...) vertical light distribution.

...**RB**... With rotationally symmetrical wide angle light distribution.

...**RE**... With rotationally symmetrical narrow angle light distribution.

...**SB**... With symmetric wide light distribution.

...**SE**... With symmetric narrow light distribution.

...**SM**... With symmetric medium-wide light distribution.

LED system

With 32 high performance LEDs.

...**LED-B**... With blue LEDs.

...**LED-G**... With green LEDs.

...**LED-R**... With red LEDs.

...**LED-W**... With white LEDs.

Luminaire body

Floodlight housing of die-cast aluminium, metallic grey, similar to RAL 9006, powder-coated, highly weather resistant.

Angle scale for simplified setting of inclination, lockable in 5° steps. Covered by polypropylene caps, anthracite grey, similar to RAL 7016, highly weather-resistant.

Flat cover of heat-treated, non-laminated safety glass sealed in die-cast frame, can be swung down, mounted to spotlight housing with stainless steel screws.

Windage area $F_w = 0.057 \text{ m}^2$.

Electrical version

Electrical connection for two cables, each 3 x 2.5 mm².

With two M 20 cable glands for 6 to 12 mm cable diameters as cable strain relief system. One cable gland closed.

...**K**... With inductive ballast, parallel-compensated.

...**ET**... With electronic transformer, switchable.

Mains No power supply equipment required, lamp operation directly from mains power.

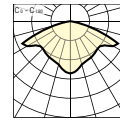
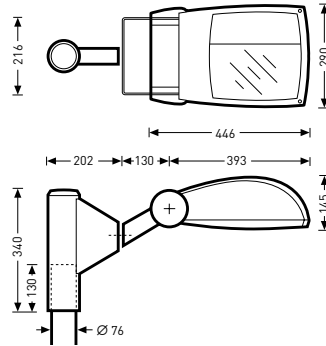


The attractive spotlight housing offers protection from ingress of dust and humidity according to protection rating IP66. The front panel can be folded down for installation and maintenance work.

Wide swivel angle enables universal fixing to horizontal or vertical surfaces or to post cross-arms.



Floodlights for roads, asymmetric wide distribution (AB)



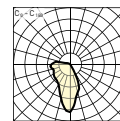
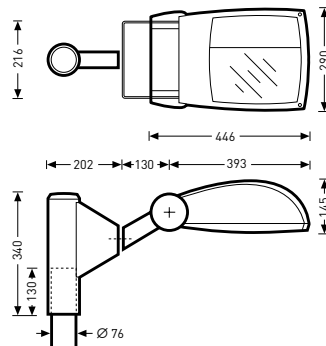
8611 AB/50-70HST K	
Safety class	I
Protection rating	IP66
Mounting height	3-5 m



Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8611 AB/50-70HST... ¹⁾	47 639...	...02	1 x HST 50/70	7.4

¹⁾Ballast can be reconnected, factory-pret to the lower level

Floodlights for squares, asymmetric medium wide distribution (AM)



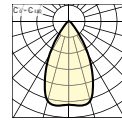
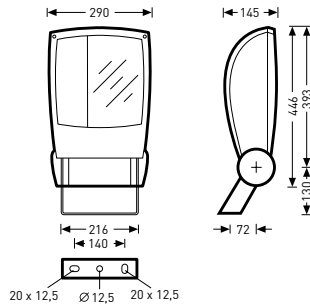
8611 AM/100HST K	
Safety class	I
Protection rating	IP66
Mounting height	3-5 m



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8611 AM/100HST...	13 011...	...02	-	1 x HST 100	8.2
8611 AM/150HIT...	13 012...	...02	-	1 x HIT 150	7.8
8611 AM/150HIT-DE/HST-DE...	13 013...	...02	-	1 x HIT-DE/HST-DE 150	7.9
8611 AM/150HST...	13 014...	...02	-	1 x HST 150	8.3
8611 AM/35HIT...	13 016...	...02	-	1 x HIT 35	6.9
8611 AM/50-70HST... ¹⁾	13 018...	...02	-	1 x HST 50/70	7.4
8611 AM/500QT-DE	13 017...	-	...10	1 x QT-DE 500	5.8
8611 AM/70HIT...	13 019...	...02	-	1 x HIT 70	7.2
8611 AM/70HIT-DE/HST-DE...	13 020...	...02	-	1 x HIT-DE/HST-DE 70	7.7

¹⁾Ballast can be reconnected, factory-pret to the lower level

Floodlights for illuminations, rotationally symmetric wide distribution (RB)



8611 RB/LED-B ET

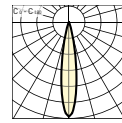
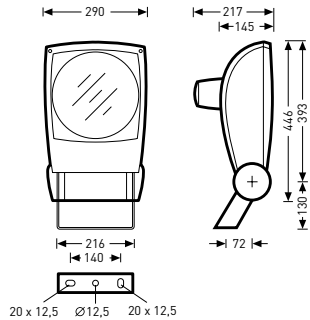
Safety class I

Protection rating IP66



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	Connected load	≈kg
8611 RB/LED-B...	56 576...	...40	LED 600 lm	38 W	7.4
8611 RB/LED-G...	56 577...	...40	LED 1900 lm	38 W	7.4
8611 RB/LED-R...	56 578...	...40	LED 950 lm	38 W	7.4
8611 RB/LED-W...	56 575...	...40	LED 1900 lm	38 W	7.4

Floodlights for illuminations, rotationally symmetric narrow distribution (RE)



8611 RE/LED-B ET

Safety class I

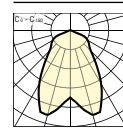
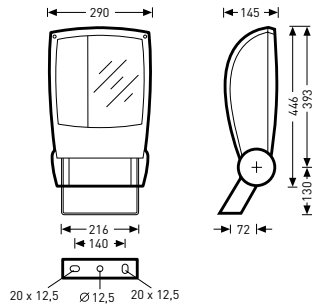
Protection rating IP66



Reference	TOC	...ET ...40	...K ...02	Lamps / Luminaire luminous flux	Connected load	≈kg
8611 RE/LED-B...	56 572...	...40	-	LED 600 lm	40 W	7.4
8611 RE/LED-G...	56 573...	...40	-	LED 2000 lm	40 W	7.4
8611 RE/LED-R...	56 574...	...40	-	LED 1000 lm	40 W	7.4
8611 RE/LED-W...	56 571...	...40	-	LED 2000 lm	40 W	7.4
8611 RE/150HIT...	13 022...	-	...02	1 x HIT 150		8.2
8611 RE/35HIT...	13 023...	-	...02	1 x HIT 35		7.3
8611 RE/50-70HST... ¹⁾	13 024...	-	...02	1 x HST 50/70		7.7
8611 RE/70HIT...	13 025...	-	...02	1 x HIT 70		7.6

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Floodlights for illuminations, symmetric wide distribution (SB)



8611 SB/100HST K

Safety class I

Protection rating

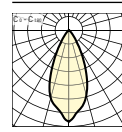
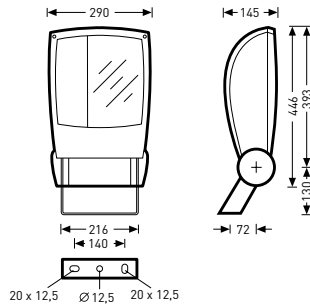
IP66



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8611 SB/100HST...	13 026...	...02	-	1 x HST 100	8.2
8611 SB/150HIT...	13 027...	...02	-	1 x HIT 150	7.8
8611 SB/150HIT-DE/HST-DE...	13 028...	...02	-	1 x HIT-DE/HST-DE 150	7.9
8611 SB/150HST...	13 029...	...02	-	1 x HST 150	8.3
8611 SB/35HIT...	13 031...	...02	-	1 x HIT 35	6.9
8611 SB/50-70HST... ¹⁾	13 033...	...02	-	1 x HST 50/70	7.4
8611 SB/500QT-DE	13 032...	-	...10	1 x QT-DE 500	5.8
8611 SB/70HIT...	13 034...	...02	-	1 x HIT 70	7.2
8611 SB/70HIT-DE/HST-DE...	13 035...	...02	-	1 x HIT-DE/HST-DE 70	7.3

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Floodlights for illuminations, symmetric narrow distribution (SE)



8611 SE/LED-B ET

Safety class

Protection rating

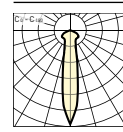
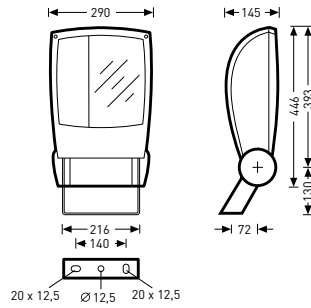
IP66



Reference	TOC	...ET ...40	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	Connected load	≈kg
8611 SE/LED-B...	56 580...	...40	-	-	LED 400 lm	31 W	7.4
8611 SE/LED-G...	56 581...	...40	-	-	LED 1400 lm	31 W	7.4
8611 SE/LED-R...	56 582...	...40	-	-	LED 700 lm	31 W	7.4
8611 SE/LED-W...	56 579...	...40	-	-	LED 1400 lm	31 W	7.4
8611 SE/100HST...	13 037...	-	...02	-	1 x HST 100		8.2
8611 SE/150HIT...	13 038...	-	...02	-	1 x HIT 150		7.8
8611 SE/150HIT-DE/HST-DE...	13 039...	-	...02	-	1 x HIT-DE/HST-DE 150		7.9
8611 SE/150HST...	13 040...	-	...02	-	1 x HST 150		8.3
8611 SE/35HIT...	13 042...	-	...02	-	1 x HIT 35		6.9
8611 SE/50-70HST... ¹⁾	13 044...	-	...02	-	1 x HST 50/70		7.4
8611 SE/500QT-DE	13 043...	-	-	...10	1 x QT-DE 500		5.8
8611 SE/70HIT...	13 045...	-	...02	-	1 x HIT 70		7.2
8611 SE/70HIT-DE/HST-DE...	13 046...	-	...02	-	1 x HIT-DE/HST-DE 70		7.3

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Floodlights for illuminations, symmetric medium wide distribution (SM)



8611 SM/100HST K

Safety class I

Protection rating

IP66



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	=kg
8611 SM/100HST...	13 048...	...02	-	1 x HST 100	8.2
8611 SM/150HIT...	13 049...	...02	-	1 x HIT 150	7.8
8611 SM/150HIT-DE/HST-DE...	13 050...	...02	-	1 x HIT-DE/HST-DE 150	7.9
8611 SM/150HST...	13 051...	...02	-	1 x HST 150	8.3
8611 SM/35HIT...	13 053...	...02	-	1 x HIT 35	6.9
8611 SM/50-70HST... ¹⁾	13 055...	...02	-	1 x HST 50/70	7.4
8611 SM/500QT-DE	13 054...	-	...10	1 x QT-DE 500	5.8
8611 SM/70HIT...	13 056...	...02	-	1 x HIT 70	7.2
8611 SM/70HIT-DE/HST-DE...	13 057...	...02	-	1 x HIT-DE/HST-DE 70	7.3

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Post connections



Reference	TOC	Accessory description	=kg
0860/1/76	22 203 00	Post connection, single	3.2
0860/2/76/180°	22 204 00	Post connection, twin, 180°	4.2
0860/2/76/90°	43 829 00	Post connection, twin, 90°	4.2
0860/3/76	22 205 00	Post connection, triple	5.2
0860/4/76	22 206 00	Post connection, quadruple	6.2

Post straps



Reference	TOC	Accessory description	=kg
0860 MS	51 343 00	Post strap	1.5



Decorative post mounting elements

Reference	TOC	Accessory description	≈kg
08600 DM/1/76	49 664 00	Decorative post mounting element, single	12.1
08600 DM/2/76/180°	49 665 00	Decorative post mounting element, twin, 180°	17.2
08600 DM/2/76/90°	49 674 00	Decorative post mounting element, twin, 90°	18.8
08600 DM/3/76	49 675 00	Decorative post mounting element, triple	24.5

Decorative wall brackets

Reference	TOC	Accessory description	≈kg
08600 DWB	49 670 00	Decorative wall bracket	12.1

Anti-glare devices



Reference	TOC	Accessory description	≈kg
0861 BK	22 196 00	Anti-glare device, for mounting on the accessory frame	0.4

Anti-glare lamellae



Reference	TOC	Accessory description	≈kg
0861 BLS	22 197 00	Anti-glare lamellae, rigid, for mounting on the accessory frame	0.5

Protective screens



Reference	TOC	Accessory description	≈kg
0861 G	48 086 00	Protective grid, for mounting on the accessory frame	0.3

Accessory frame



Reference	TOC	Accessory description	≈kg
0861 ZR	22 202 00	Accessory frame	0.5



Floodlights for streets and squares

**Applications**

Pedestrian zones, arcades, passages, light around the house, car parks, works roads, harbour facilities, shipping facilities, storage locations, container areas, power stations, golf courses, cross country ski courses, accent lighting.

Mounting type

Fixing bracket of aluminium for mounting to horizontal surfaces, ceilings and posts with use of accessories.

Optical systems

Optical system of anodised aluminium.

...**AB**... With asymmetrical wide light distribution.

...**AM**... With extremely asymmetric medium-wide light distribution. For illumination of squares and floodlighting. As wide beam floodlight with 50° [8611...] or 55° [8612...] vertical light distribution.

...**RE**... With rotationally symmetrical narrow angle light distribution.

...**SB**... With symmetric wide light distribution.

...**SE**... With symmetric narrow light distribution.

...**SM**... With symmetric medium-wide light distribution.

Luminaire body

Floodlight housing of die-cast aluminium, metallic grey, similar to RAL 9006, powder-coated, highly weather resistant. Angle scale for simplified setting of inclination, lockable in 5° steps. Covered by polypropylene caps, anthracite grey, similar to RAL 7016, highly weather-resistant. Flat cover of heat-treated, non-laminated safety glass sealed in die-cast frame, can be swung down, mounted to spotlight housing with stainless steel screws. Windage area $F_w = 0.108 \text{ m}^2$.

Electrical version

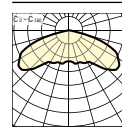
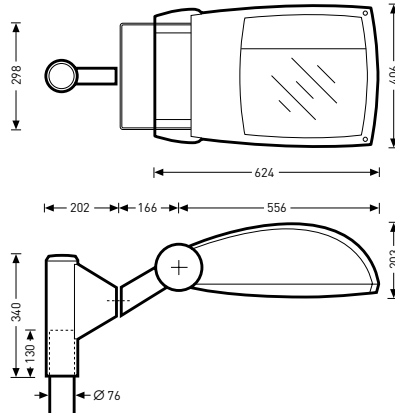
Electrical connection for two cables, each 3 x 2.5 mm².

With two M 20 cable glands for 6 to 12 mm cable diameters as cable strain relief system. One cable gland closed.

...**K**... With inductive ballast, parallel-compensated.

Mains No power supply equipment required, lamp operation directly from mains power.

Floodlights for roads, asymmetric wide distribution (AB)



8621 AB/100-150HST K

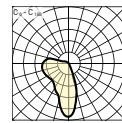
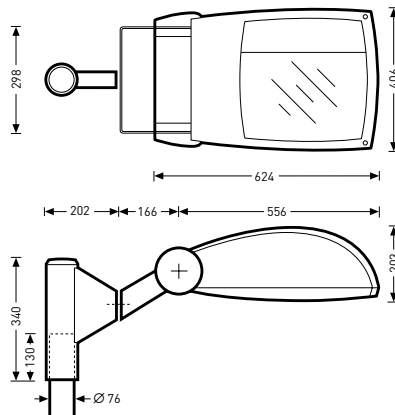
Safety class	I
Protection rating	IP66
Mounting height	5-8 m



Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8621 AB/100-150HST... ¹⁾	47 640...	...02	1 x HST 100/150	13.5

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Floodlights for squares, asymmetric medium wide distribution (AM)



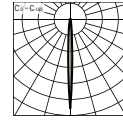
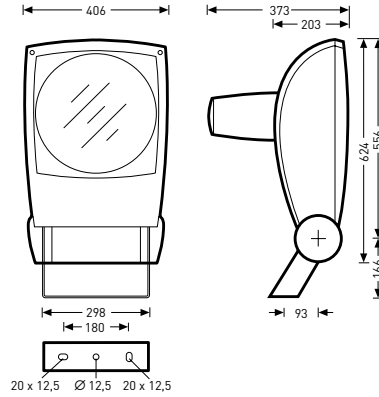
8621 AM/1000QT-DE

Safety class	I
Protection rating	IP66
Mounting height	5-8 m



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8621 AM/1000QT-DE	13 059...	-	...10	1 x QT-DE 1000	11.5
8621 AM/250HIT-DE...	13 061...	...02	-	1 x HIT-DE 250	14.5
8621 AM/250HIT/HST...	13 060...	...02	-	1 x HST/HIT 250	14.7
8621 AM/250HST-DE...	13 063...	...02	-	1 x HST-DE 250	14.5
8621 AM/400HIT-DE/HST-DE...	13 065...	...02	-	1 x HIT-DE/HST-DE 400	16.7
8621 AM/400HIT/HST...	13 064...	...02	-	1 x HST/HIT 400	16.9
8621 AM/600HST...	49 440...	...02	-	1 x HST 600	18.5

Floodlights for illuminations, rotationally symmetric narrow distribution (RE)



8621 RE/100-150HST K

Safety class I

Protection rating

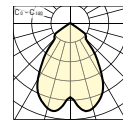
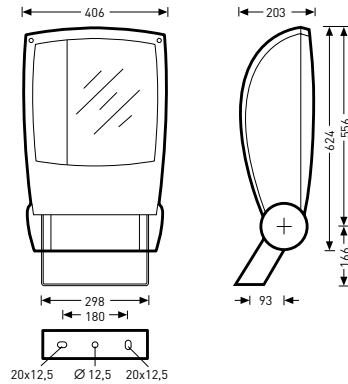
IP66



Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
8621 RE/100-150HST... ¹⁾	13 068...	...02	1 x HST 100/150	14.4
8621 RE/250HIT/HST...	13 069...	...02	1 x HST/HIT 250	15.4
8621 RE/400HIT/HST...	13 071...	...02	1 x HST/HIT 400	17.6

¹⁾ Ballast can be reconnected, factory-preset to the lower level

Floodlights for illuminations, symmetric wide distribution (SB)



8621 SB/1000QT-DE

Safety class I

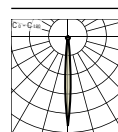
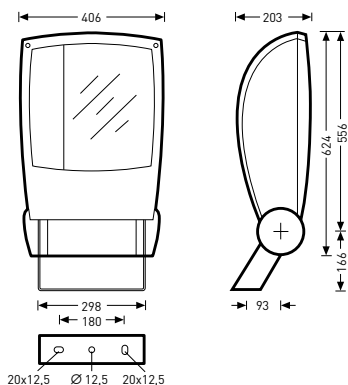
Protection rating

IP66



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8621 SB/1000QT-DE	13 073...	-	...10	1 x QT-DE 1000	11.5
8621 SB/250HIT-DE...	13 075...	...02	-	1 x HIT-DE 250	14.5
8621 SB/250HIT/HST...	13 074...	...02	-	1 x HST/HIT 250	14.7
8621 SB/250HST-DE...	13 077...	...02	-	1 x HST-DE 250	14.5
8621 SB/400HIT-DE/HST-DE...	13 079...	...02	-	1 x HIT-DE/HST-DE 400	16.7
8621 SB/400HIT/HST...	13 078...	...02	-	1 x HST/HIT 400	16.9
8621 SB/600HST...	49 441...	...02	-	1 x HST 600	18.5

Floodlights for illuminations, symmetric narrow distribution (SE)



8621 SE/1000QT-DE

Safety class I

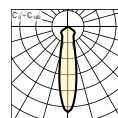
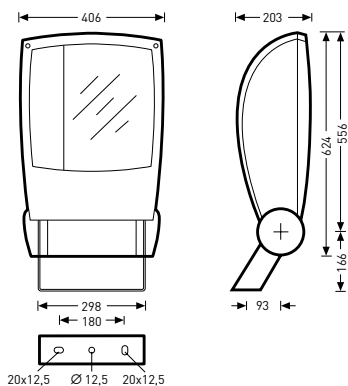
Protection rating

IP66



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8621 SE/1000QT-DE	13 082...	-	...10	1 x QT-DE 1000	11.5
8621 SE/250HIT-DE...	13 084...	...02	-	1 x HIT-DE 250	14.5
8621 SE/250HIT/HST...	13 083...	...02	-	1 x HST/HIT 250	14.7
8621 SE/250HST-DE...	13 086...	...02	-	1 x HST-DE 250	14.5
8621 SE/400HIT-DE/HST-DE...	13 088...	...02	-	1 x HIT-DE/HST-DE 400	16.7
8621 SE/400HIT/HST...	13 087...	...02	-	1 x HST/HIT 400	16.9
8621 SE/600HST...	49 442...	...02	-	1 x HST 600	18.5

Floodlights for illuminations, symmetric medium wide distribution (SM)



8621 SM/1000QT-DE

Safety class I

Protection rating

IP66



Reference	TOC	...K ...02	Mains ...10	Lamps / Luminaire luminous flux	≈kg
8621 SM/1000QT-DE	13 091...	-	...10	1 x QT-DE 1000	11.5
8621 SM/250HIT-DE...	13 093...	...02	-	1 x HIT-DE 250	14.5
8621 SM/250HST-DE...	13 095...	...02	-	1 x HST-DE 250	14.5
8621 SM/400HIT-DE/HST-DE...	13 097...	...02	-	1 x HIT-DE/HST-DE 400	16.7
8621 SM/400HIT/HST...	13 096...	...02	-	1 x HST/HIT 400	16.9
8621 SM/600HST...	49 443...	...02	-	1 x HST 600	18.5

Post connections



Reference	TOC	Accessory description	≈kg
0860/1/76	22 203 00	Post connection, single	3.2
0860/2/76/180°	22 204 00	Post connection, twin, 180°	4.2
0860/2/76/90°	43 829 00	Post connection, twin, 90°	4.2
0860/3/76	22 205 00	Post connection, triple	5.2
0860/4/76	22 206 00	Post connection, quadruple	6.2

Decorative post mounting elements



Reference	TOC	Accessory description	≈kg
08600 DM/1/76	49 664 00	Decorative post mounting element, single	12.1
08600 DM/2/76/180°	49 665 00	Decorative post mounting element, twin, 180°	17.2
08600 DM/2/76/90°	49 674 00	Decorative post mounting element, twin, 90°	18.8
08600 DM/3/76	49 675 00	Decorative post mounting element, triple	24.5

Decorative wall bracket

Reference	TOC	Accessory description	≈kg
08600 DWB	49 670 00	Decorative wall bracket	12.1

Anti-glare device



Reference	TOC	Accessory description	≈kg
0862 BK	22 207 00	Anti-glare device, for mounting on the accessory frame	0.4

Anti-glare lamella



Reference	TOC	Accessory description	≈kg
0862 BLS	22 208 00	Anti-glare lamella, rigid, for mounting on the accessory frame	0.5



Protective screen

Reference	TOC	Accessory description	≈kg
0862 G	48 085 00	Protective grid, for mounting on the accessory frame	0.4

Ribbed glass

Reference	TOC	Accessory description	≈kg
0862 RG	58 991 00	Ribbed glass, for mounting on the accessory frame	0.8



Accessory frame

Reference	TOC	Accessory description	≈kg
0862 ZR	22 213 00	Accessory frame	0.7

Wide beam floodlights



Ranging from open spaces to facade illumination: The Lumena Star LED adapts perfectly to its specific application. Existing, inefficient spotlight systems can also be rapidly and simply replaced with the Lumena Star LED. Thanks to high energy savings, long service life and low maintenance effort, investment costs for the Lumena Star LED are paid back in a very short period of time. The quality of light is very high thanks to innovative specular optics with a pleasant, glare-free light.

One spotlight. Many options: The Lumena Star LED adapts to its specific application due to various wattages and luminous flux packages of 12,000 to 24,000 lumens, ranging from open spaces to facade illumination.

Simple refurbishments. Rapid savings: Compared to a standard lighting system, the Lumena Star LED enables significant energy savings of up to 40 %. To make refurbishing even easier, existing connections and posts can still be used.

Maximum efficiency. For low operating costs: The Lumena Star LED combines high energy efficiency with long service life and low maintenance effort. Optional features such as power reduction and light management systems provide further energy-saving potential.

Innovative technology. Outstanding quality of light: Pleasant, without glare and also without disturbing light spill: With its innovative specular optic, the Lumena Star guarantees excellent quality of light.

Applications

Container areas, large building sites, harbour facilities, storage locations, terminals, parking lots, power stations, sports centres, accent lighting.

Mounting type

For mounting to horizontal surfaces, ceilings and with use of accessories to posts. Mounting bracket of galvanised steel.

Optical systems

With a specular optic of photometrically high-efficiency aluminium for maximum light output ratio and low glare. With asymmetrical wide light intensity distribution. Maximum light intensity in beam angle 55 °.

LED system

Specific parameters for defining LED service life: L80/B10, service life 50,000 operating hours.

---**650**--- Colour rendering index Ra > 60, light colour neutral white (nw), colour temperature 5000 K.

---**740**--- Colour rendering index Ra > 70, light colour neutral white (nw), colour temperature 4000 K.

Luminaire body

Luminaire body and cover support of die-cast aluminium. Cover of flat non-laminated safety glass fixed in frame. Sealings of sulphur-free, synthetic EPDM rubber. Colour metallic grey, similar to RAL 9006, highly weather resistant, powder-coated.

The spatial separation of connection compartment and optical system achieves optimised luminaire thermal management.

Electrical version

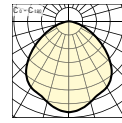
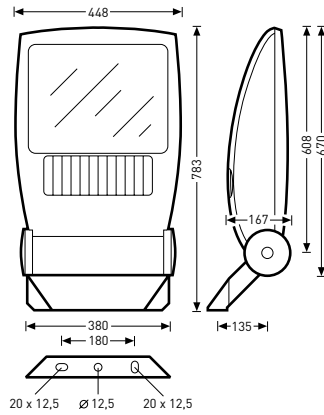
Gear tray removed and replaced without tools. The connection compartment is prepared for the subsequent installation of light management systems.

Supplementary equipment

---**LR**--- With power reduction of luminaire luminous flux to 50% by switching off one control phase.

---**LRA**--- With intelligent power reduction via integral evaluation electronics. Reduction of luminaire luminous flux to 50 % for a time period of 7 hours (-2 h/+5 h), centred on the illuminated time period which is redefined on a daily basis.

Wide beam floodlights, asymmetric distribution



Lumena Star 70-AM1R/12000-650 G1 ET

Safety class **I**

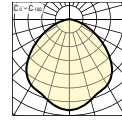
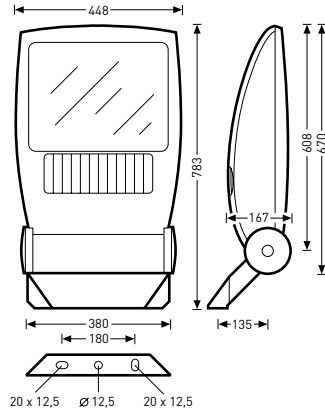
Protection rating **IP66**

Mounting height **10 - 16 m**



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	≈kg
Lumena Star 70-AM1R/12000-650 G1...	63 435...	...40	LED 12000 lm	16.0
Lumena Star 70-AM1R/12000-740 G1...	63 427...	...40	LED 12000 lm	16.0
Lumena Star 70-AM1R/13500-650 G1...	63 436...	...40	LED 13500 lm	16.0
Lumena Star 70-AM1R/13500-740 G1...	63 428...	...40	LED 13500 lm	16.0
Lumena Star 70-AM1R/15000-650 G1...	63 437...	...40	LED 15000 lm	16.0
Lumena Star 70-AM1R/15000-740 G1...	63 429...	...40	LED 15000 lm	16.0
Lumena Star 70-AM1R/16500-650 G1...	63 438...	...40	LED 16500 lm	16.0
Lumena Star 70-AM1R/16500-740 G1...	63 430...	...40	LED 16500 lm	16.0
Lumena Star 70-AM1R/18000-650 G1...	63 439...	...40	LED 18000 lm	16.0
Lumena Star 70-AM1R/18000-740 G1...	63 431...	...40	LED 18000 lm	16.0
Lumena Star 70-AM1R/20000-650 G1...	63 440...	...40	LED 20000 lm	16.0
Lumena Star 70-AM1R/20000-740 G1...	63 432...	...40	LED 20000 lm	16.0
Lumena Star 70-AM1R/22000-650 G1...	63 441...	...40	LED 22000 lm	16.0
Lumena Star 70-AM1R/24000-650 G1...	63 442...	...40	LED 24000 lm	16.0

Wide beam floodlights, asymmetric distribution



Lumena Star 70-AM1R-LR/12000-650 G1 ET

Safety class I

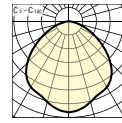
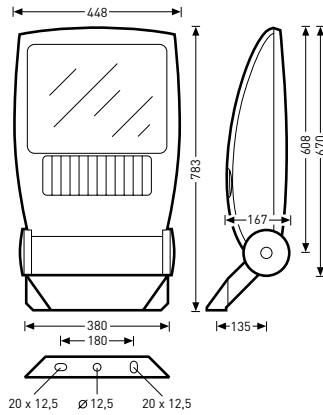
Protection rating IP66

Mounting height 10 - 16 m



Reference	TOC	---ET ---40	Lamps / Luminaire luminous flux	=kg
Lumena Star 70-AM1R-LR/12000-650 G1...	63 453...	---40	LED 12000 lm	16.0
Lumena Star 70-AM1R-LR/12000-740 G1...	63 445...	---40	LED 12000 lm	16.0
Lumena Star 70-AM1R-LR/13500-650 G1...	63 454...	---40	LED 13500 lm	16.0
Lumena Star 70-AM1R-LR/13500-740 G1...	63 446...	---40	LED 13500 lm	16.0
Lumena Star 70-AM1R-LR/15000-650 G1...	63 455...	---40	LED 15000 lm	16.0
Lumena Star 70-AM1R-LR/15000-740 G1...	63 447...	---40	LED 15000 lm	16.0
Lumena Star 70-AM1R-LR/16500-650 G1...	63 456...	---40	LED 16500 lm	16.0
Lumena Star 70-AM1R-LR/16500-740 G1...	63 448...	---40	LED 16500 lm	16.0
Lumena Star 70-AM1R-LR/18000-650 G1...	63 457...	---40	LED 18000 lm	16.0
Lumena Star 70-AM1R-LR/18000-740 G1...	63 449...	---40	LED 18000 lm	16.0
Lumena Star 70-AM1R-LR/20000-650 G1...	63 458...	---40	LED 20000 lm	16.0
Lumena Star 70-AM1R-LR/20000-740 G1...	63 450...	---40	LED 20000 lm	16.0
Lumena Star 70-AM1R-LR/22000-650 G1...	63 459...	---40	LED 22000 lm	16.0
Lumena Star 70-AM1R-LR/24000-650 G1...	63 460...	---40	LED 24000 lm	16.0

Wide beam floodlights, asymmetric distribution



Lumena Star 70-AM1R-LRA/12000-650 G1 ET

Safety class I

Protection rating IP66

Mounting height 10 - 16 m



Reference	TOC	...ET ...40	Lamps / Luminaire luminous flux	≈kg
Lumena Star 70-AM1R-LRA/12000-650 G1...	63 471...	...40	LED 12000 lm	16.0
Lumena Star 70-AM1R-LRA/12000-740 G1...	63 463...	...40	LED 12000 lm	16.0
Lumena Star 70-AM1R-LRA/13500-650 G1...	63 472...	...40	LED 13500 lm	16.0
Lumena Star 70-AM1R-LRA/13500-740 G1...	63 464...	...40	LED 13500 lm	16.0
Lumena Star 70-AM1R-LRA/15000-650 G1...	63 473...	...40	LED 15000 lm	16.0
Lumena Star 70-AM1R-LRA/15000-740 G1...	63 465...	...40	LED 15000 lm	16.0
Lumena Star 70-AM1R-LRA/16500-650 G1...	63 474...	...40	LED 16500 lm	16.0
Lumena Star 70-AM1R-LRA/16500-740 G1...	63 466...	...40	LED 16500 lm	16.0
Lumena Star 70-AM1R-LRA/18000-650 G1...	63 475...	...40	LED 18000 lm	16.0
Lumena Star 70-AM1R-LRA/18000-740 G1...	63 467...	...40	LED 18000 lm	16.0
Lumena Star 70-AM1R-LRA/20000-650 G1...	63 476...	...40	LED 20000 lm	16.0
Lumena Star 70-AM1R-LRA/20000-740 G1...	63 468...	...40	LED 20000 lm	16.0
Lumena Star 70-AM1R-LRA/22000-650 G1...	63 477...	...40	LED 22000 lm	16.0
Lumena Star 70-AM1R-LRA/24000-650 G1...	63 478...	...40	LED 24000 lm	16.0

Wide beam floodlight



Applications

Sports grounds, tennis courts, swimming centres, ice stadiums, golf courses, ski slopes, airport halls, building sites, harbour facilities, shipping facilities, storage locations, container areas, power stations, quarries and mining, high sports halls, works halls, trade fair halls.

Mounting type

Fixing bracket of galvanised steel, steplessly adjustable, for vertical and suspended mounting of floodlight.

Optical systems

Optical system of reflection-intensifying anodised aluminium, for horizontal alignment as wide beam floodlight.

---**AB**--- With asymmetrical wide light distribution.

Vertical light distribution 65°.

---**AM**--- With asymmetrical medium-wide light distribution.

Vertical light distribution 65°.

---**AT**--- With asymmetric narrow light distribution.

Vertical light distribution 65°.

---**AN**--- With asymmetric near field distribution.

Vertical light distribution 40°.

Luminaire body

Floodlight housing of welded sheet aluminium and back cover on rear of die-cast aluminium, metallic grey, similar to RAL 9006, powder-coated, highly weather resistant. Back cover firmly fixed to housing with four stainless steel screws. With mounted socket and reflector components. Including thermally isolated ignitor box of die-cast aluminium. Relamping after removal of back cover. Cover can be hooked into maintenance position on the floodlight housing. Cover of non-laminated safety glass sealed in housing via silicone profile and secured with stainless steel catches. Windage area $F_w = 0.187 \text{ m}^2$.

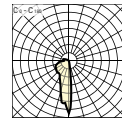
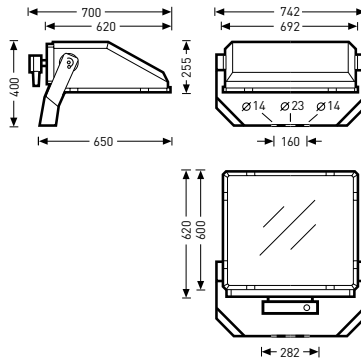
Electrical version

Electrical connection to a plug connection sealed to ignitor box with 4-pole connection terminal to 2.5 mm² and cable gland for cable diameters 6-12 mm.

---**WZ**--- With built-in intelligent ignition management system for instant hot re-ignition of the lamp after mains interruption. Automatic safety cut-off and end-of-life detection prevent abnormal lamp operation and protect luminaire components. Ignitor mounted externally to inspection cover. Electrical connection of floodlight in ignitor to 3-pole connection terminal to 4 mm². With cable gland M20 for cable diameters 8 to 13 mm.

Further components required for operation of the floodlight.

Wide beam floodlights, asymmetric wide distribution (AB)



8661 AB/1000HIT-DE

Safety class

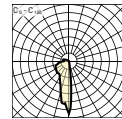
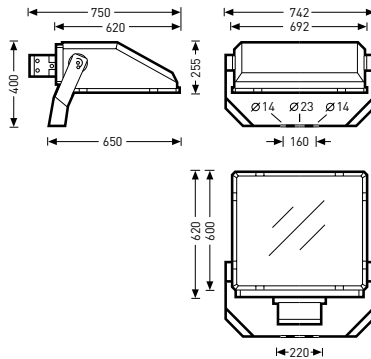
Protection rating

IP65



Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	≈kg
8661 AB/1000HIT-DE	51 712...	...50	1 x HIT-DE 1000	19.0
8661 AB/1000HST/HIT	51 702...	...50	1 x HST 1000 1 x HIT 1000	18.5
8661 AB/2000HIT	51 709...	...50	1 x HIT 2000/8.8 A 1 x HIT 2000/10.3 A	18.7
8661 AB/2000HIT-DE	51 720...	...50	1 x HIT-DE 2000	19.0
8661 AB/2000HIT-DE32	51 728...	...50	1 x HIT-DE32 2000	19.0
8661 AB/2000HIT-I	51 706...	...50	1 x HIT-I 2000/8.8 A 1 x HIT-I 2000/10.3 A	18.0
8661 AB/600HST	51 699...	...50	1 x HST 600	18.5

Wide beam floodlights, asymmetric wide distribution (AB), with hot re-ignition (WZ)



8661 AB-WZ/1000HIT-DE

Safety class

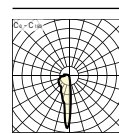
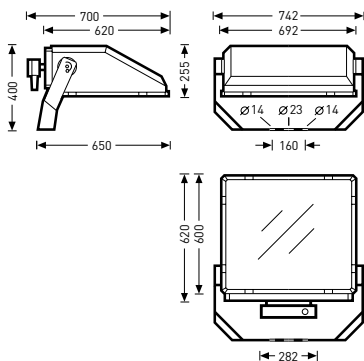
Protection rating

IP65



Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	≈kg
8661 AB-WZ/1000HIT-DE	51 716...	...50	1 x HIT-DE 1000	22.3
8661 AB-WZ/2000HIT-DE	51 724...	...50	1 x HIT-DE 2000	22.3

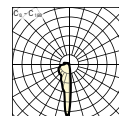
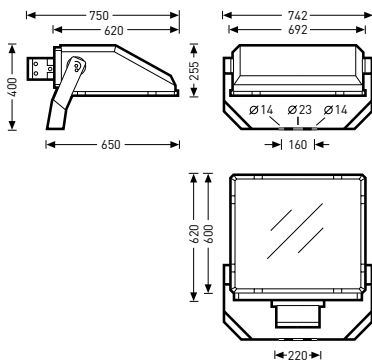
Wide beam floodlights, asymmetric medium wide distribution (AM)



8661 AM/1000HIT-DE	
Safety class	I
Protection rating	IP65

Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	=kg
8661 AM/1000HIT-DE	51 711...	...50	1 x HIT-DE 1000	19.0
8661 AM/1000HST/HIT	51 701...	...50	1 x HST 1000 1 x HIT 1000	18.5
8661 AM/2000HIT	51 708...	...50	1 x HIT 2000/8.8 A 1 x HIT 2000/10.3 A	18.7
8661 AM/2000HIT-DE	51 719...	...50	1 x HIT-DE 2000	19.0
8661 AM/2000HIT-DE32	51 727...	...50	1 x HIT-DE32 2000	19.0
8661 AM/2000HIT-I	51 705...	...50	1 x HIT-I 2000/8.8 A 1 x HIT-I 2000/10.3 A	18.0
8661 AM/600HST	51 698...	...50	1 x HST 600	18.5

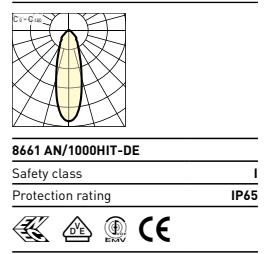
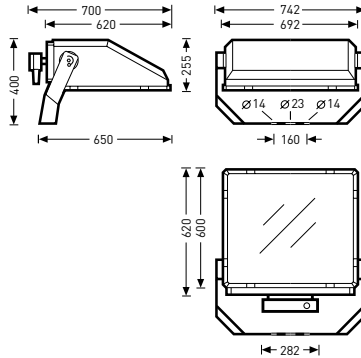
Wide beam floodlights, asymmetric medium wide distribution (AM), with hot re-ignition (WZ)



8661 AM-WZ/1000HIT-DE	
Safety class	I
Protection rating	IP65

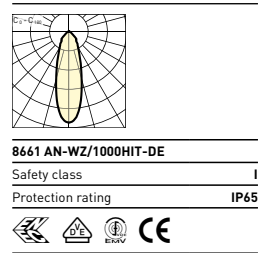
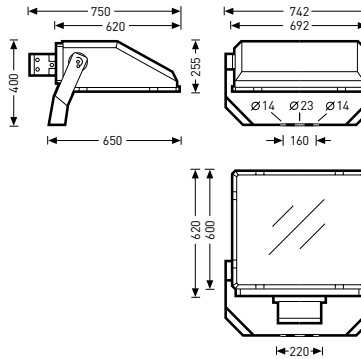
Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	=kg
8661 AM-WZ/1000HIT-DE	51 715...	...50	1 x HIT-DE 1000	22.3
8661 AM-WZ/2000HIT-DE	51 723...	...50	1 x HIT-DE 2000	22.3

Wide beam floodlights, asymmetric near field (AN)



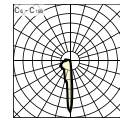
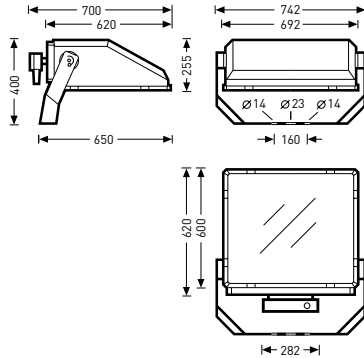
Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	≈kg
8661 AN/1000HIT-DE	51 714...	...50	1 x HIT-DE 1000	19.0
8661 AN/1000HST/HIT	51 704...	...50	1 x HST 1000 1 x HIT 1000	18.5
8661 AN/2000HIT-DE	51 722...	...50	1 x HIT-DE 2000	19.0
8661 AN/2000HIT-DE32	51 730...	...50	1 x HIT-DE32 2000	19.0

Wide beam floodlights, asymmetric near field (AN), with hot re-ignition (WZ)



Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	≈kg
8661 AN-WZ/1000HIT-DE	51 718...	...50	1 x HIT-DE 1000	22.3
8661 AN-WZ/2000HIT-DE	51 726...	...50	1 x HIT-DE 2000	22.3

Wide beam floodlights, asymmetric narrow distribution (AT)



8661 AT/1000HIT-DE

Safety class I

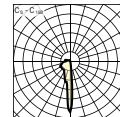
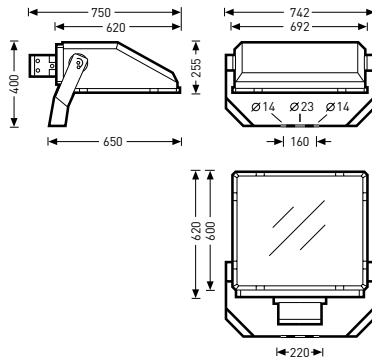
Protection rating

IP65



Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	=kg
8661 AT/1000HIT-DE	51 713...	...50	1 x HIT-DE 1000	19.0
8661 AT/1000HST/HIT	51 703...	...50	1 x HST 1000	18.5
8661 AT/2000HIT	51 710...	...50	1 x HIT 2000/8.8 A	18.7
8661 AT/2000HIT-DE	51 721...	...50	1 x HIT-DE 2000	19.0
8661 AT/2000HIT-DE32	51 729...	...50	1 x HIT-DE32 2000	19.0
8661 AT/2000HIT-I	51 707...	...50	1 x HIT-I 2000/8.8 A	18.0
8661 AT/600HST	51 700...	...50	1 x HST 600	18.5

Wide beam floodlights, asymmetric narrow distribution (AT), with hot re-ignition (WZ)



8661 AT-WZ/1000HIT-DE

Safety class I

Protection rating

IP65



Reference	TOC	Requires further components ...50	Lamps / Luminaire luminous flux	=kg
8661 AT-WZ/1000HIT-DE	51 717...	...50	1 x HIT-DE 1000	22.3
8661 AT-WZ/2000HIT-DE	51 725...	...50	1 x HIT-DE 2000	22.3

Supports

Reference	TOC	Accessory description	≈kg
TW1/114	27 854 00	Support for 1 floodlight	3.0
TW2/114	27 856 00	Support for 2 floodlights	12.0
TW3-4/114	27 858 00	Support for 3-4 floodlights	19.0

Shield

Reference	TOC	Accessory description	≈kg
0866 AS	51 677 00	Shield	1.7

Control gear boxes

Reference	TOC	Accessory description	≈kg
0860 GK/1/1000HI/HS K	52 483 02	Control gear box for 1xHI/HS 1000	18.1
0860 GK/1/2000HI/10.3A K	52 485 02	Control gear box for 1xHI 2000/10.3A	25.4
0860 GK/1/2000HI/8.8A K	52 487 02	Control gear box for 1xHI 2000	25.4
0860 GK/1/600HST K	52 489 02	Control gear box for 1xHST 600	14.7
0860 GK/2/1000HI/HS KK	52 491 09	Control gear box for 2xHI/HS 1000	36.7
0860 GK/2/2000HI/10.3A KK	52 493 09	Control gear box for 2xHI 2000/10.3A	51.3
0860 GK/2/2000HI/8.8A KK	52 495 09	Control gear box for 2xHI 2000	51.3
0860 GK/2/600HST KK	52 497 09	Control gear box for 2xHST 600	29.3

Single components

Reference	TOC	Accessory description	≈kg
0860 VE/600 HS K	58 315 00	For post installation Estadia 600HST	11.0
0860 VE/1000HI/HS K	58 316 00	For post installation Estadia 1000HIT / Estadia 1000HST	15.2
0860 VE/2000HI/8.8A/380V/400V/420V K	58 318 00	For post installation Estadia 2000HIT / 8.8 A	20.1
0860 VE/2000HI/10.3A/380V/400V/420V K	58 317 00	For post installation Estadia 2000HIT / 10.3 A	22.7

Floodlight



The Combial spotlight series features a robust design with compact dimensions. Three construction sizes, as well as differing light distribution characteristics and lamp configurations, enable a wide diversity of applications and design flexibility. High manufacturing quality and technology combined with die-cast aluminium and non-laminated safety glass ensure a permanent sense of value.

Timeless: Functional design for discreet use in private and public spaces.

Long-life: Robust manufacturing quality and technology ensure a permanent sense of value.

Flexible: The pivotable fixing bracket and various distribution patterns and lamp configurations offer wide flexibility.

Simple, rapid: Thanks to the fixing bracket the luminaire is mounted in next to no time.

Easy maintenance: Quick-release catches enable simple relamping.

Applications

Building sites, harbour facilities, shipping facilities, storage locations, container areas, power stations, accent lighting.

Mounting type

Pivotable fixing bracket for suspended and vertical mounting.

Optical systems

Aluminium reflector with reflection-intensifying coated surface.

...**AS**... With asymmetric light distribution.

...**SM**... With symmetric medium-wide light distribution.

Luminaire body

Spotlight body of die-cast aluminium.

Colour black, similar to RAL 9005.

Cover of non-laminated safety glass.

Combial...70... / Combial...150... Windage area $F_w = 0.09 \text{ m}^2$.

Combial...250... Windage area $F_w = 0.130 \text{ m}^2$.

Combial...400... Windage area $F_w = 0.190 \text{ m}^2$.

Electrical version

Tool-free relamping with quick-release catches. M20 cable entry for 9-12 mm cable diameters. Electrical connection via supplied 3-pole connector, 2.5 mm².

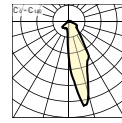
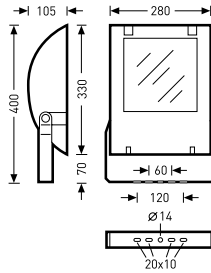
...**K**... With inductive ballast, parallel-compensated.


Including lamps

...**TW...ww** Lamps with 3000 K colour temperature included in scope of supply.

...**TW...nw** Lamps with 4000 K colour temperature included in scope of supply.

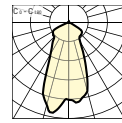
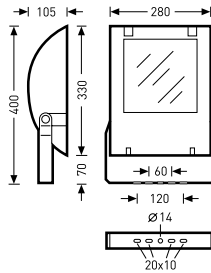
Floodlights, asymmetric distribution (AS), includes lamp




Combial AS/1x150HIT-DE K TW nw	
Safety class	I
Protection rating	IP65
	

Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
Combial AS/1x150HIT-DE...TW nw	60 250...	...02	1 x HIT-DE 150	5.2
Combial AS/1x150HST-DE...TW ww	60 254...	...02	1 x HST-DE 150	5.2
Combial AS/1x70HIT-DE...TW nw	60 249...	...02	1 x HIT-DE 70	4.7
Combial AS/1x70HST-DE...TW ww	60 253...	...02	1 x HST-DE 70	4.7

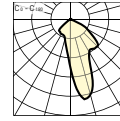
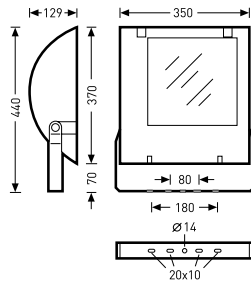
Floodlights, symmetric medium wide distribution (SM), includes lamp



Combial SM/1x150HIT-DE K TW nw	
Safety class	I
Protection rating	IP65
	

Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
Combial SM/1x150HIT-DE...TW nw	60 248...	...02	1 x HIT-DE 150	5.2
Combial SM/1x150HST-DE...TW ww	60 252...	...02	1 x HST-DE 150	5.2
Combial SM/1x70HIT-DE...TW nw	60 247...	...02	1 x HIT-DE 70	4.7
Combial SM/1x70HST-DE...TW ww	60 251...	...02	1 x HST-DE 70	4.7

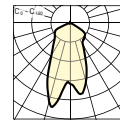
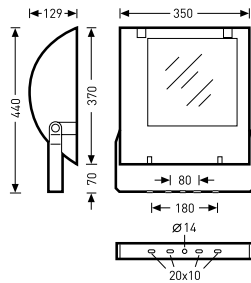
Floodlights, asymmetric distribution (AS), includes lamp



Combial AS/1x250HIT K TW nw	
Safety class	I
Protection rating	IP65

Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
Combial AS/1x250HIT...TW nw	60 255...	...02	1 x HIT 250	7.8
Combial AS/1x250HST...TW ww	60 259...	...02	1 x HST 250	7.8

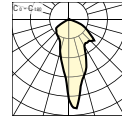
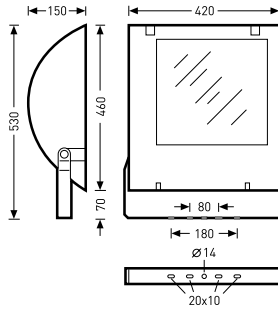
Floodlights, symmetric medium wide distribution (SM), includes lamp



Combial SM/1x250HIT K TW nw	
Safety class	I
Protection rating	IP65

Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
Combial SM/1x250HIT...TW nw	60 257...	...02	1 x HIT 250	7.8
Combial SM/1x250HST...TW ww	60 261...	...02	1 x HST 250	7.8

Floodlights, asymmetric distribution (AS), includes lamp



Combial AS/1x400HIT K TW nw

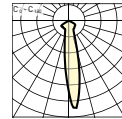
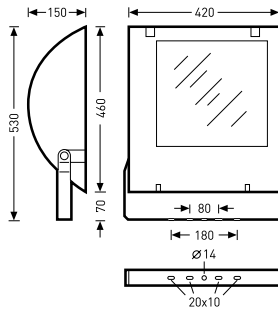
Safety class I

Protection rating IP65



Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
Combial AS/1x400HIT...TW nw	60 256...	...02	1 x HIT 400	12.0
Combial AS/1x400HST...TW ww	60 260...	...02	1 x HST 400	12.0

Floodlights, symmetric medium wide distribution (SM), includes lamp



Combial SM/1x400HIT K TW nw

Safety class I

Protection rating IP65



Reference	TOC	...K ...02	Lamps / Luminaire luminous flux	≈kg
Combial SM/1x400HIT...TW nw	60 258...	...02	1 x HIT 400	12.0
Combial SM/1x400HST...TW ww	60 262...	...02	1 x HST 400	12.0

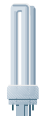
REPLACEMENT PARTS

Reference	TOC	=kg
Replacement diffuser		
Diffuser 8772, 9172 replacement	28 715 00	1.1
Diffuser 9301K replacement	61 890 00	0.9
Diffuser 9311/9312 replacement	28 757 00	1.3
Diffuser 9701/9702 replacement	59 407 00	0.4
Diffuser 9711/9712 replacement	28 773 00	0.6
Diffuser 9721/9722 replacement	28 775 00	0.8
Diffuser 9721/9722 PC replacement	48 109 00	0.8
Diffuser 9800 replacement	28 788 00	1.1
Diffuser 9830/9860 replacement	28 789 00	1.2
Diffuser 9850 replacement	28 794 00	1.3
Replacement glass		
Flat glass 9701 SG/9702 SG replacement	59 408 00	1.0
Flat glass 9711 SG/9712 SG replacement	26 378 00	1.1
Flat glass 9721 SG/9722 SG replacement	26 379 00	1.6

LAMP DATA OUTDOOR



Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference	ECG Φ (lm)*	Philips Reference	ECG Φ (lm)*	Socket
	W	mm	mm		≥					
T26	36	1200	26	ww	80	L 36W/827	3350	TL-D S80 36W/827	3350	G13
T26	36	1200	26	ww	80	L 36W/830	3350	TL-D S80 36W/830	3350	G13
T26	36	1200	26	nw	80	L 36W/840	3350	TL-D S80 36W/840	3350	G13
T26	36	1200	26	tw	90	L 36W/954	2850	TL-D 90 De Luxe 36W/950	2800	G13
T26	36	1200	26	tw	90	L 36W/965	2850	TL-D 90 De Luxe 36W/965	2800	G13
T26	58	1500	26	ww	80	L 58W/827	5200	TL-D S80 58W/827	5200	G13
T26	58	1500	26	ww	80	L 58W/830	5200	TL-D S80 58W/830	5200	G13
T26	58	1500	26	nw	80	L 58W/835	5200	-	-	G13
T26	58	1500	26	nw	80	L 58W/840	5200	TL-D S80 58W/840	5200	G13
T26	58	1500	26	tw	80	L 58W/865	5000	TL-D S80 58W/865	5000	G13
T26	58	1500	26	tw	80	L 58W/880	4900	-	-	G13
T26	58	1500	26	ww	90	L 58W/930	4350	TL-D 90 De Luxe 58W/930	4350	G13
T26	58	1500	26	nw	90	L 58W/940	4600	TL-D 90 De Luxe 58W/940	4600	G13
T26	58	1500	26	tw	90	L 58W/954	4550	TL-D 90 De Luxe 58W/950	4550	G13
T26	58	1500	26	tw	90	L 58W/965	4550	TL-D 90 De Luxe 58W/965	4550	G13

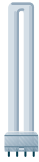


Lamp type	PL	L	LF	Ra	OSRAM Reference	Philips Reference	ECG Φ (lm)*	Socket
	W	mm		≥				
TC-DEL	13	130	ww	80	DULUX D/E 13W/827	Master PL-C 13W/827/4P	900	G24q-1
TC-DEL	13	130	ww	80	DULUX D/E 13W/830	Master PL-C 13W/830/4P	900	G24q-1
TC-DEL	13	130	nw	80	DULUX D/E 13W/840	Master PL-C 13W/840/4P	900	G24q-1
TC-DEL	18	140	ww	80	DULUX D/E 18W/827	Master PL-C 18W/827/4P	1200	G24q-2
TC-DEL	18	140	ww	80	DULUX D/E 18W/830	Master PL-C 18W/830/4P	1200	G24q-2
TC-DEL	18	140	nw	80	DULUX D/E 18W/840	Master PL-C 18W/840/4P	1200	G24q-2
TC-DEL	26	160	ww	80	DULUX D/E 26W/827	Master PL-C 26W/827/4P	1750	G24q-3
TC-DEL	26	160	ww	80	DULUX D/E 26W/830	Master PL-C 26W/830/4P	1750	G24q-3
TC-DEL	26	160	nw	80	DULUX D/E 26W/840	Master PL-C 26W/840/4P	1750	G24q-3



TC-F	24	165	ww	80	DULUX F 24W/827	-	1700	G26
TC-F	24	165	ww	80	DULUX F 24W/830	-	1700	G26
TC-F	24	165	nw	80	DULUX F 24W/840	-	1700	G26
TC-F	36	217	ww	80	DULUX F 36W/827	-	2800	G26
TC-F	36	217	ww	80	DULUX F 36W/830	-	2800	G26
TC-F	36	217	nw	80	DULUX F 36W/840	-	2800	G26

* All luminous flux specifications relate to 25°C.



Lamp type	PL	L	LF	Ra	OSRAM Reference	Philips Reference	ECG Φ (lm)*	Socket
TC-L	18	225	ww	80	DULUX L 18W/827	Master PL-L 18W/827/4P	1200	GX24q-1
TC-L	18	225	ww	80	DULUX L 18W/830	Master PL-L 18W/830/4P	1200	GX24q-1
TC-L	18	225	nw	80	DULUX L 18W/840	Master PL-L 18W/840/4P	1200	GX24q-1
TC-L	18	225	ww	90	DULUX L 18W/930	Master PL-L 90 18W/930/4P	950	GX24q-1
TC-L	18	225	nw	90	DULUX L 18W/940	Master PL-L 90 18W/940/4P	950	GX24q-1
TC-L	18	225	tw	90	DULUX L 18W/954	Master PL-L 90 18W/950/4P	950	GX24q-1
TC-L	24	320	ww	80	DULUX L 24W/827	Master PL-L 24W/827/4P	1800	GX24q-1
TC-L	24	320	ww	80	DULUX L 24W/830	Master PL-L 24W/830/4P	1800	GX24q-1
TC-L	24	320	nw	80	DULUX L 24W/840	Master PL-L 24W/840/4P	1800	GX24q-1
TC-L	24	320	ww	90	DULUX L 24W/930	Master PL-L 90 24W/930/4P	1500	GX24q-1
TC-L	24	320	nw	90	DULUX L 24W/940	Master PL-L 90 24W/940/4P	1500	GX24q-1
TC-L	24	320	tw	90	DULUX L 24W/950	Master PL-L 90 24W/950/4P	1500	GX24q-1
TC-L	36	415	ww	80	DULUX L 36W/827	Master PL-L 36W/827/4P	2900	GX24q-1
TC-L	36	415	ww	80	DULUX L 36W/830	Master PL-L 36W/830/4P	2900	GX24q-1
TC-L	36	415	nw	80	DULUX L 36W/840	Master PL-L 36W/840/4P	2900	GX24q-1
TC-L	36	415	tw	80	DULUX L 36W/865	-	2750	GX24q-1
TC-L	36	415	tw	80	DULUX L 36W/880	-	2600	GX24q-1
TC-L	36	415	ww	90	DULUX L 36W/930	Master PL-L 90 36W/930/4P	2350	GX24q-1
TC-L	36	415	nw	90	DULUX L 36W/940	Master PL-L 90 36W/940/4P	2350	GX24q-1
TC-L	36	415	tw	90	DULUX L 36W/954	Master PL-L 90 36W/950/4P	2350	GX24q-1
TC-L	26	535	ww	80	DULUX L HE 26W/830	-	2450	GX24q-1
TC-L	26	535	nw	80	DULUX L HE 26W/840	-	2450	GX24q-1
TC-L	40	535	ww	80	DULUX L 40W/827	-	3500	GX24q-1
TC-L	40	535	ww	80	DULUX L 40W/830	Master PL-L 40W/830/4P	3500	GX24q-1
TC-L	40	535	nw	80	DULUX L 40W/840	Master PL-L 40W/840/4P	3500	GX24q-1
TC-L	40	535	tw	80	DULUX L 40W/865	-	3325	GX24q-1
TC-L	40	535	tw	80	DULUX L 40W/880	-	3150	GX24q-1
TC-L	40	535	tw	90	DULUX L 40W/954	-	2350	GX24q-1
TC-L	55	535	ww	80	DULUX L 55W/827	-	4800	GX24q-1
TC-L	55	535	ww	80	DULUX L 55W/830	Master PL-L 55W/830/4P	4800	GX24q-1
TC-L	55	535	nw	80	DULUX L 55W/840	Master PL-L 55W/840/4P	4800	GX24q-1
TC-L	55	535	tw	80	DULUX L 55W/865	Master PL-L 55W/865/4P	4500	GX24q-1
TC-L	55	535	tw	80	DULUX L 55W/880	-	4300	GX24q-1
TC-L	55	535	ww	90	DULUX L 55W/930	Master PL-L 90 55W/930/4P	4000	GX24q-1
TC-L	55	535	nw	90	DULUX L 55W/940	Master PL-L 90 55W/940/4P	4000	GX24q-1
TC-L	55	535	tw	90	DULUX L 55W/954	Master PL-L 90 55W/950/4P	4000	GX24q-1
TC-TEL(I)	13	90	ww	80	DULUX T/E 13W/827 PLUS	Master PL-T 13W/827/4P	900	GX24q-1
TC-TEL(I)	13	90	ww	80	DULUX T/E 13W/830 PLUS	Master PL-T 13W/830/4P	900	GX24q-1
TC-TEL(I)	13	90	nw	80	DULUX T/E 13W/840 PLUS	Master PL-T 13W/840/4P	900	GX24q-1
TC-TEL(I)	18	100	ww	80	DULUX T/E 18W/827 (IN) PLUS	Master PL-T 18W/827/4P	1200	GX24q-2
TC-TEL(I)	18	100	ww	80	DULUX T/E 18W/830 (IN) PLUS	Master PL-T 18W/830/4P(TOP)	1200	GX24q-2
TC-TEL(I)	18	100	nw	80	DULUX T/E 18W/840 (IN) PLUS	Master PL-T 18W/840/4P(TOP)	1200	GX24q-2
TC-TEL(I)	26	115	ww	80	DULUX T/E 26W/827 (IN) PLUS	Master PL-T 26W/827/4P	1800	GX24q-3
TC-TEL(I)	26	115	ww	80	DULUX T/E 26W/830 (IN) PLUS	Master PL-T 26W/830/4P(TOP)	1800	GX24q-3
TC-TEL(I)	26	115	nw	80	DULUX T/E 26W/840 (IN) PLUS	Master PL-T 26W/840/4P(TOP)	1800	GX24q-3
TC-TEL(I)	32	130	ww	80	DULUX T/E 32W/827 (IN) PLUS	Master PL-T 32W/827/4P(TOP)	2400	GX24q-3
TC-TEL(I)	32	130	ww	80	DULUX T/E 32W/830 (IN) PLUS	Master PL-T 32W/830/4P(TOP)	2400	GX24q-3
TC-TEL(I)	32	130	nw	80	DULUX T/E 32W/840 (IN) PLUS	Master PL-T 32W/840/4P(TOP)	2400	GX24q-3
TC-TEL(I)	42	155	ww	80	DULUX T/E 42W/827 (IN) PLUS	Master PL-T 42W/827/4P(TOP)	3200	GX24q-4
TC-TEL(I)	42	155	ww	80	DULUX T/E 42W/830 (IN) PLUS	Master PL-T 42W/830/4P(TOP)	3200	GX24q-4
TC-TEL(I)	42	155	nw	80	DULUX T/E 42W/840 (IN) PLUS	Master PL-T 42W/840/4P(TOP)	3200	GX24q-4



* All luminous flux specifications relate to 25°C.
(IN) and **(TOP)** alternatively also with amalgam technology for increased ambient temperatures.
IN and **TOP** without brackets are versions only available with amalgam technology.

Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference	Philips Reference		Socket	
							Φ (lm)*	Φ (lm)*		
	W	mm	mm		≥					
Metal halide lamps, ellipsoid form (≥ 250 W only for sealed luminaires)										
HIE	70	144	55	ww	70	HQI-E 70/WDL clear	5200	-	-	E27
HIE	70	144	55	nw	70	HQI-E 70/NDL clear	5500	-	-	E27
HIE	100	144	55	ww	70	HQI-E 100/WDL clear	8500	-	-	E27
HIE	100	144	55	nw	80	HQI-E 100/NDL clear	8400	-	-	E27
HIE	150	144	55	ww	70	HQI-E 150/WDL	12900	-	-	E27
HIE	150	144	55	nw	80	HQI-E 150/NDL	12500	-	-	E27
HIE	250	226	90	tw	90	HQI-E 250/D PRO ¹⁾	19000 ¹⁾	-	-	E40
HIE	250	226	90	nw	60	-	-	MASTER HPI Plus 250W/745 BU E40	18000 ²⁾	E40
Metal halide lamps, ellipsoid form (CE with ceramic burner)										
HIE-CE	35	138	54	ww	80	HCI-E/P 35/830 WDL PB coated	3200	-	-	E27
HIE-CE	35	138	54	nw	90	HCI-E/P 35/942 NDL PB coated	3100	-	-	E27
HIE-CE	50	138	54	ww	80	HCI-E/P 50/830 WDL PB coated	4000	-	-	E27
HIE-CE	70	138	54	ww	80	HCI-E/P 70/830 WDL PB coated	6700	-	-	E27
HIE-CE	70	138	54	nw	90	HCI-E/P 70/942 NDL PB coated	6300	-	-	E27
HIE-CE	100	138	54	ww	80	HCI-E/P 100/830 WDL PB coated	8500	-	-	E27
HIE-CE	100	138	54	nw	90	HCI-E/P 100/942 NDL PB coated	8300	-	-	E27
HIE-CE	150	138	54	ww	80	HCI-E/P 150/830 WDL PB coated	13700	-	-	E27
HIE-CE	150	138	54	nw	90	HCI-E/P 150/942 NDL PB coated	13700	-	-	E27
HIE-CE/S-od	50	156	71	ww	80	-	-	MASTER CityWhite CDO-ET Plus 50/828	5150	E27
HIE-CE/S-od	70	156	71	ww	80	-	-	MASTER CityWhite CDO-ET Plus 70/828	7200	E27
HIE-CE/S-od	100	186	76	ww	80	-	-	MASTER CityWhite CDO-ET Plus 100/828	9400	E40
HIE-CE/S-od	150	230	91	ww	80	-	-	MASTER CityWhite CDO-ET Plus 150/828	15100	E40
Metal halide lamps, tubular form (CE with ceramic arc tube, only for sealed luminaires)										
HIT-CE	20	105	20	ww	80	-	-	MASTERColour CDM-T 20W/830	1800	G12
HIT-CE	35	105	20	ww	80	HCI-T 35/830 WDL PB	3600	MASTERColour CDM-T 35W/830	3150	G12
HIT-CE	35	105	20	ww	90	HCI-T 35/930 WDL PB Shoplight	2800	MASTERColour CDM-T Elite 35W/930	3700	G12
HIT-CE	35	105	20	nw	90	HCI-T 35/942 NDL PB	3500	MASTERColour CDM-T 35W/942	3300	G12
HIT-CE	50	105	20	ww	90	-	-	MASTERColour CDM-T Elite 50W/930	4750	G12
HIT-CE	70	105	20	ww	80	HCI-T 70/830 WDL PB	7400	MASTERColour CDM-T 70W/830	6600	G12
HIT-CE	70	105	20	ww	90	HCI-T 70/930 WDL PB Shoplight	6300	MASTERColour CDM-T Elite 70W/930	7500	G12
HIT-CE	70	105	20	nw	90	HCI-T 70/942 NDL PB	6800	MASTERColour CDM-T 70W/942	6600	G12
HIT-CE	70	156	36	nw	90	-	-	MASTER CDM-TT 70/942	6300	E27
HIT-CE	70	128	34	ww	80	HCI-T/P 70/830 WDL PB clear	7200	-	-	E27
HIT-CE	70	128	34	nw	90	HCI-T/P 70/942 NDL PB clear	6700	-	-	E27
HIT-CE	100	105	20	ww	80	HCI-T 100/830 WDL PB	9500	MASTERColour CDM-T Elite 100W/930	11000	G12
HIT-CE	100	105	20	nw	90	HCI-T 100/942 NDL PB	9300	-	-	G12
HIT-CE	100	133	40	ww	80	HCI-T/P 100/830 WDL PB clear	9000	-	-	E27
HIT-CE	100	133	40	nw	90	HCI-T/P 100/942 NDL PB clear	8800	-	-	E27
HIT-CE	150	110	20	ww	80	HCI-T 150/830 WDL PB	15000	MASTERColour CDM-T 150W/830	14000	G12
HIT-CE	150	110	20	ww	90	-	-	MASTERColour CDM-T Elite 150W/930	15000	G12
HIT-CE	150	110	20	nw	90	HCI-T 150/942 NDL PB	14500	MASTERColour CDM-T 150W/942	12700	G12
HIT-CE	150	133	40	ww	80	HCI-T/P 150/830 WDL PB clear	14500	-	-	E27
HIT-CE	150	133	40	nw	90	HCI-T/P 150/942 NDL PB clear	14500	-	-	E27
HIT-CE	150	211	47	nw	90	-	-	MASTER CDM-TT 150/942	12000	E40
HIT-CE	250	135	25	ww	80	-	-	MASTERColour CDM-T 250W/830	23000	G12
HIT-CE	250	135	25	nw	90	-	-	MASTERColour CDM-T 250W/942	22000	G12
HIT-CE	250	175	34	ww	80	HCI-TM 250/830 WDL PB ¹⁾	26000 ¹⁾	-	-	G22
HIT-CE	250	175	34	nw	90	HCI-TM 250/942 NDL PB ¹⁾	25000 ¹⁾	-	-	G22
HIT-CE	250	226	46	ww	80	HCI-T 250/830 WDL PB ¹⁾	26000 ¹⁾	-	-	E40
HIT-CE	250	226	46	nw	90	HCI-T 250/942 NDL PB ¹⁾	25000 ¹⁾	-	-	E40

* All luminous flux specifications relate to 25°C.

¹⁾ with ballast for high pressure sodium vapour lamps ²⁾ + 10-20% with ballast for high pressure sodium vapour lamps

Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference	Φ (lm)*	Philips Reference	Φ (lm)*	Socket
HIT-CE-od	45	132	19	ww	60	-	-	MASTER CosmoWhite CPO-TW 45W/728	4725	PGZ12
HIT-CE-od	60	132	19	ww	60	-	-	MASTER CosmoWhite CPO-TW 60W/728	6800	PGZ12
HIT-CE-od	60	132	19	ww	60	-	-	MASTER CosmoWhite CPO-TW 60W/840	7000	PGZ12
HIT-CE-od	90	143	19	ww	60	-	-	MASTER CosmoWhite CPO-TW 90W/728	10450	PGZ12
HIT-CE-od	90	143	19	ww	80	-	-	MASTER CosmoWhite CPO-TW 90W/840	10350	PGZ12
HIT-CE-od	140	147	19	ww	60	-	-	MASTER CosmoWhite CPO-TW 140W/728	16500	PGZ12
HIT-CE-od	140	147	19	ww	80	-	-	MASTER CosmoWhite CPO-TW 140W/840	16100	PGZ12
HIT-CE/S-od	50	156	36	ww	80	HCI-TT 50/830 WDL PB	5350	MASTER CityWhite CDO-TT 50/828	5500	E27
HIT-CE/S-od	70	156	36	ww	90	HCI-TT 70/830 WDL PB	7200	MASTER CityWhite CDO-TT 70/828	7500	E27
HIT-CE/S-od	100	211	47	ww	80	HCI-TT 100/830 WDL PB	10600	MASTER CityWhite CDO-TT 100/828	10700	E40
HIT-CE/S-od	150	211	47	ww	80	HCI-TT 150/830 WDL PB	15700	MASTER CityWhite CDO-TT 150/828	16500	E40
HIT-CE/S-od	250	255	47	ww	80	HCI-TT 250/830 WDL PB	27700	MASTER CityWhite CDO-TT 250/830	28300	E40
HIT	70	84	25	ww	80	HQI-T 70/WDL	5300	-	-	G12
HIT	70	84	25	nw	80	HQI-T 70/NDL	5800	-	-	G12
HIT	150	84	25	ww	80	HQI-T 150/WDL	13000	-	-	G12
HIT	150	84	25	nw	80	HQI-T 150/NDL	13000	-	-	G12
HIT	250	257	47	nw	65	-	-	MASTER HPI-T PLUS 250W/645	20500 ²⁾	E40
HIT	250	225	46	tw	90	HQI-T 250/D PRO ¹⁾	20000 ¹⁾	-	-	E40
HIT	400	275	46	nw	65	HQI-T 400/N ¹⁾	42000 ¹⁾	-	-	E40
HIT	400	286	47	nw	65	-	-	MASTER HPI-T PLUS 400W/645	32000 ²⁾	E40
HIT	400	285	62	tw	90	HQI-BT 400/D PRO ¹⁾	35000 ¹⁾	-	-	E40
HIT	1000	382	76	nw	65	HQI-T 1000/N	110000	HPI-T 1000W/643	85000	E40
HIT	1000	382	76	tw	90	HQI-T 1000/D	85000	-	-	E40
HIT	2000	430	102	nw	65	HQI-T 2000/N/E SUPER	240000	HPI-T 2000W/646	189000	E40
HIT	2000	430	102	tw	90	HQI-T 2000/D	180000	-	-	E40
HIT-I	2000	430	100	nw	65	HQI-T 2000/N	205000	-	-	E40
HIT-I	2000	430	100	tw	90	HQI-T 2000/D/I	180000	-	-	E40

* All luminous flux specifications relate to 25°C.

¹⁾ with ballast for high pressure sodium vapour lamps ²⁾ + 10-20% with ballast for high pressure sodium vapour lamps

Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference	Philips Reference		Socket	
							Φ (lm)*	Φ (lm)*		
	W	mm	mm		≥					
Metal halide lamps, double-ended (CE with ceramic arc tube, only for sealed luminaires)										
HIT-DE-CE	70	120	22	ww	80	HCI-TS 70/830 WDL PB	6800	MASTERColour CDM-TD 70W/830	6500	RX 7s
HIT-DE-CE	70	120	22	nw	90	HCI-TS 70/942 NDL PB	6500	MASTERColour CDM-TD 70W/942	6000	RX 7s
HIT-DE-CE	150	138	25	ww	80	HCI-TS 150/830 WDL PB	14500	MASTERColour CDM-TD 150W/830	13250	RX 7s-24
HIT-DE-CE	150	138	25	nw	90	HCI-TS 150/942 NDL PB	14400	MASTERColour CDM-TD 150W/942	14200	RX 7s-24
HIT-DE-CE	250	163	25	ww	80	HCI-TS 250/830 WDL PB ¹⁾	25000 ¹⁾	-	-	Fc 2
HIT-DE-CE	250	163	25	nw	90	HCI-TS 250/942 NDL PB ¹⁾	25000 ¹⁾	-	-	Fc 2
HIT-DE	70	120	21	ww	70	HQI-TS 70/WDL	5100	MHW-TD 70W/730	6200	RX 7s
HIT-DE	70	120	21	nw	80	HQI-TS 70/NDL	5700	MHN-TD 70W/842	5700	RX 7s
HIT-DE	70	120	21	tw	80	HQI-TS 70/D	5500	-	-	RX 7s
HIT-DE	70	120	21	ww	80	HQI-TS 70/WDL EXCELLENCE	6200	-	-	RX 7s
HIT-DE	70	120	21	nw	80	HQI-TS 70/NDL EXCELLENCE	6500	-	-	RX 7s
HIT-DE	70	120	21	tw	80	HQI-TS 70/D EXCELLENCE	6200	-	-	RX 7s
HIT-DE	150	136	24	ww	70	HQI-TS 150/WDL	11700	MHW-TD 150W/730	13800	RX 7s-24
HIT-DE	150	136	24	nw	80	HQI-TS 150/NDL	12000	MHN-TD 150W/842	12900	RX 7s-24
HIT-DE	150	136	24	tw	90	HQI-TS 150/D	12000	-	-	RX 7s-24
HIT-DE	150	136	24	ww	80	HQI-TS 150/WDL EXCELLENCE	12000	-	-	RX 7s-24
HIT-DE	150	136	24	nw	80	HQI-TS 150/NDL EXCELLENCE	12500	-	-	RX 7s-24
HIT-DE	150	136	24	tw	90	HQI-TS 150/D EXCELLENCE	13500	-	-	RX 7s-24
HIT-DE	250	163	28	ww	80	HQI-TS 250/WDL UVS	22000	-	-	Fc2
HIT-DE	250	163	28	nw	80	HQI-TS 250/NDL UVS	20000	MHN-TD 250W/842	20000	Fc2
HIT-DE	250	163	28	tw	90	HQI-TS 250/D PRO	20000	-	-	Fc2
HIT-DE	400	206	31	nw	80	HQI-TS 400/NDL ¹⁾	36000 ¹⁾	-	-	Fc2
HIT-DE	400	206	31	tw	90	HQI-TS 400/D PRO ¹⁾	37000 ¹⁾	-	-	Fc2
HIT-DE	1000	187	36	nw	80	HQI-TS 1000/NDL/S	90000	-	-	Cable
HIT-DE	1000	187	36	tw	90	HQI-TS 1000/D/S	90000	-	-	Cable
HIT-DE	1000	294	40	nw	80	-	-	MASTER MHN-LA 1000W/842	100000	Cable
HIT-DE	1000	294	40	tw	90	-	-	MASTER MHN-LA 1000W/956	90000	Cable
HIT-DE	2000	187	36	nw	80	HQI-TS 2000/NDL/S	215000	-	-	Cable
HIT-DE	2000	187	36	tw	90	HQI-TS 2000/D/S	200000	-	-	Cable
HIT-DE	2000	364	40	nw	80	-	-	MASTER MHN-LA 2000W/842 (400V)	220000	Cable
HIT-DE	2000	364	40	tw	90	-	-	MASTER MHN-LA 2000W/956 (400V)	190000	Cable
HIT-DE 32	2000	274	32	nw	60	HQI-TS 2000/N/L	230000	-	-	Cable
HIT-DE 32	2000	274	32	tw	80	HQI-TS 2000/D/L	205000	-	-	Cable



* All luminous flux specifications relate to 25°C.

¹⁾ with ballast for high pressure sodium vapour lamps



Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference	Philips Reference		Socket	
							Φ (lm)*	Φ (lm)*		
	W	mm	mm	≥						
High-pressure sodium vapour lamps, ellipsoid										
HSE	50	156	71	ww	20	NAV-E 50/E	3600	SON 50W/220 E	3500	E27
HSE	50	156	71	ww	20	NAV-E 50 4Y	3600	-	-	E27
HSE	50	156	71	ww	20	NAV-E 50 SUPER 4Y	4000	MASTER SON PIA Plus 50W/220	3900	E27
HSE	70	156	71	ww	20	NAV-E 70/E	5900	SON 70W/220 E	5800	E27
HSE	70	156	71	ww	20	NAV-E 70 4Y	5900	-	-	E27
HSE	70	156	71	ww	20	NAV-E 70 SUPER 4Y	6300	MASTER SON PIA Plus 70W/220	5900	E27
HSE	100	186	76	ww	20	NAV-E 100	8800	SON 100W/220 E	8500	E40
HSE	100	186	76	ww	20	-	-	MASTER SON PIA Plus 100W/220	10000	E40
HSE	150	227	91	ww	20	NAV-E 150	14500	SON 150W/220 E	14500	E40
HSE	150	227	91	ww	20	NAV-E 150 4Y	15000	MASTER SON APIA Plus Hg Free 150W	15800	E40
HSE	150	227	91	ww	20	NAV-E 150 SUPER 4Y	17000	MASTER SON APIA Plus Xtra 150W	17500	E40
HSE	150	227	91	ww	60	-	-	SON Comfort 150W/621	12500	E40
HSE	250	227	120	ww	20	NAV-E 250	27000	SON 250W/220 E	27000	E40
HSE	250	227	120	ww	20	NAV-E 250 4Y	28800	MASTER SON-T APIA Plus Hg Free 250W	29700	E40
HSE	250	227	120	ww	20	NAV-E 250 SUPER 4Y	31600	MASTER SON APIA Plus Xtra 250W	31300	E40
HSE	250	227	120	ww	60	-	-	SON Comfort 250W/621	22000	E40
HSE	400	290	122	ww	20	NAV-E 400	48000	SON 400W/220 E	48000	E40
HSE	400	290	122	ww	20	NAV-E 400 4Y	50000	MASTER SON PIA Hg Free 400 W	48000	E40
HSE	400	290	122	ww	20	NAV-E 400 SUPER 4Y	56500	MASTER SON APIA Plus Hg Free 400W	53600	E40
HSE	400	290	122	ww	20	-	-	MASTER SON PIA Plus Xtra 400W	55400	E40
HSE	400	290	122	ww	60	-	-	SON Comfort 400W/621	37000	E40
HSE	1000	370	165	ww	20	NAV-E 1000	128000	-	-	E40
High-pressure sodium vapour lamps, tubular										
HST	50	156	38	ww	20	NAV-T 50	3700	-	-	E27
HST	50	156	38	ww	20	NAV-T 50 SUPER 4Y	4400	MASTER SON-T APIA Plus Xtra 50W	4400	E27
HST	70	156	38	ww	20	NAV-T 70	6000	SON-T 70W/220	6000	E27
HST	70	156	38	ww	20	NAV-T 70 4Y	6000	MASTER SON-T APIA Plus Hg Free 70W	6300	E27
HST	70	156	38	ww	20	NAV-T 70 SUPER 4Y	6600	MASTER SON-T APIA Plus Xtra 70W	6600	E27
HST	100	211	48	ww	20	-	-	SON-T 100W/220	9000	E40
HST	100	211	48	ww	20	NAV-T 100	9000	MASTER SON-T APIA Plus Hg Free 100W	9000	E40
HST	100	211	48	ww	20	NAV-T 100 SUPER 4Y	10700	MASTER SON-T APIA Plus Xtra 100W	10700	E40
HST	150	211	48	ww	20	NAV-T 150	15000	SON-T 150W/220	15000	E40
HST	150	211	48	ww	20	NAV-T 150 4Y	15000	MASTER SON-T PIA 150W/221 Hg Free	15000	E40
HST	150	211	48	ww	20	NAV-T 150 SUPER 4Y	17500	MASTER SON-T APIA Plus Hg Free 150W	17100	E40
HST	150	211	48	ww	60	-	-	SON-T Comfort 150W/621	13000	E40
HST	250	257	48	ww	20	NAV-T 250	28000	SON-T 250W/220	28000	E40
HST	250	257	48	ww	20	NAV-T 250 4Y	28000	MASTER SON-T APIA Plus Hg Free 250W	32200	E40
HST	250	257	48	ww	20	NAV-T 250 SUPER 4Y	33200	MASTER SON-T APIA Plus Xtra250W	33300	E40
HST	250	257	48	ww	60	-	-	SON-T Comfort 250W/621	23000	E40
HST	400	285	48	ww	20	NAV-T 400	48000	SON-T 400W/220	48000	E40
HST	400	285	48	ww	20	NAV-T 400 4Y	48000	MASTER SON-T APIA Plus Hg Free 400W	56000	E40
HST	400	285	48	ww	20	NAV-T 400 SUPER 4Y	56500	MASTER SON-T APIA Plus Xtra 400W	56000	E40
HST	400	285	48	ww	60	-	-	SON-T Comfort 400W/621	38000	E40
HST	600	285	47	ww	20	NAV-T 600 SUPER 4Y	90000	MASTER SON-T PIA Plus 600W/220	90000	E40
HST	1000	390	67	ww	20	NAV-T 1000	130000	SON-T 1000W/220	130000	E40
High-pressure sodium vapour lamps (CRI with improved colour rendering)										
HST-CRI	50	103	20	ww	80	-	-	MASTER SDW-TG Mini White SON 50W/825	2400	GX12-1
HST-CRI	100	110	20	ww	80	-	-	MASTER SDW-TG Mini White SON 100W/825	4900	GX12-1
HST-CRI	35	149	32	ww	80	-	-	MASTER SDW-T SON 35W/825	1300	PG12-1
HST-CRI	50	149	32	ww	80	-	-	MASTER SDW-T SON 50W/825	2300	PG12-1
HST-CRI	100	149	32	ww	80	-	-	MASTER SDW-T SON 100W/825	5000	PG12-1
High-pressure sodium vapour lamps, double-ended										
HST-DE	70	120	20	ww	20	NAV-TS 70 SUPER 4Y	6800	-	-	RX 7s
HST-DE	150	138	23	ww	20	NAV-TS 150 SUPER 4Y	15000	-	-	RX 7s-24
HST-DE	250	206	23	ww	20	NAV-TS 250	25500	-	-	Fc 2
HST-DE	400	206	23	ww	20	NAV-TS 400	48000	-	-	Fc 2

* All luminous flux specifications relate to 25°C.

Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference		I (cd)	Philips Reference		I (cd)	Socket
High voltage halogen reflector lamps												
 QPAR 50	50	57	51	ww	100	Sylvania Hi-Spot ES 50	25°	1000	Twistline Alu 3000h	25°	1000	GU10
QPAR 111	75	72	110	ww	100	Sylvania Hi-Spot ES111 75W	24°	3500	-	-	-	GU10
QPAR-CB 111	100	72	110	ww	100	Sylvania Hi-Spot ESD111 100W	10°	12000	-	-	-	GZ10
QPAR-CB 111	100	72	110	ww	100	Sylvania Hi-Spot ESD111 100W	24°	5000	-	-	-	GZ10
Low voltage halogen reflector lamps (with cool beam reflector)												
 QR-CBC 51	20	46	51	ww	100	Decostar 51 48860 ECO SP	10°	5500	MASTERline ES 20W	8°	6500	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51 48860 ECO FL	24°	2000	-	-	-	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51 48860 ECO WFL	36°	1000	MASTERline ES 20W	36°	1000	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51 48860 ECO VWFL	60°	450	MASTERline ES 20W	60°	500	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51 TITAN 46860 SP	10°	5000	Brilliantline Dichroic 12V MR16 20W	10°	5000	GU5.3
QR-CBC 51	20	46	51	ww	100	-	-	Brilliantline Dichroic 12V MR16 20W	24°	1800	GU5.3	
QR-CBC 51	20	46	51	ww	100	Decostar 51 TITAN 46860 WFL	36°	780	Brilliantline Dichroic 12V MR16 20W	36°	780	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51 TITAN 46860 VWFL	60°	350	Brilliantline Dichroic 12V MR16 20W	60°	350	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51S 44860 SP	10°	3000	Accentline 20W 12V	10°	2200	GU5.3
QR-CBC 51	20	46	51	ww	100	Decostar 51S 44860 WFL	36°	480	Accentline 20W 12V	36°	500	GU5.3
QR-CBC 51	30	46	51	ww	100	-	-	MASTERline ES 30W	8°	11000	GU5.3	
QR-CBC 51	30	46	51	ww	100	-	-	MASTERline ES 30W	24°	3350	GU5.3	
QR-CBC 51	30	46	51	ww	100	-	-	MASTERline ES 30W	36°	1600	GU5.3	
QR-CBC 51	30	46	51	ww	100	-	-	MASTERline ES 30W	60°	750	GU5.3	
QR-CBC 51	35	46	51	ww	100	Decostar 51 48865 ECO SP	10°	111000	MASTERline ES 35W	8°	13500	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 48865 ECO FL	24°	4100	MASTERline ES 35W	24°	4400	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 48865 ECO WFL	36°	2200	MASTERline ES 35W	36°	2200	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 48865 ECO VWFL	60°	1050	MASTERline ES 35W	60°	1050	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 TITAN 46865 SP	10°	9500	Brilliantline Dichroic 12V MR16 35W	10°	8000	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 TITAN 46865 FL	24°	3100	Brilliantline Dichroic 12V MR16 35W	24°	3100	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 TITAN 46865 WFL	36°	1500	Brilliantline Dichroic 12V MR16 35W	36°	1500	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51 TITAN 46865 VWFL	60°	700	Brilliantline Dichroic 12V MR16 35W	60°	700	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51S 44865 SP	10°	6200	Accentline 35W 12V	10°	3750	GU5.3
QR-CBC 51	35	46	51	ww	100	Decostar 51S 44865 WFL	36°	1000	Accentline 35W 12V	36°	1000	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 48870 ECO SP	10°	15000	MASTERline ES 45W	8°	16000	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 48870 ECO FL	24°	5300	MASTERline ES 45W	24°	5450	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 48870 ECO WFL	36°	2850	MASTERline ES 45W	36°	2850	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 48870 ECO VWFL	60°	1450	MASTERline ES 45W	60°	1300	GU5.3

Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference		Philips Reference		Socket	I (cd)	
											W	mm
QR-CBC 51	50	46	51	ww	100	Decostar 51 TITAN 46870 SP	10°	12500	Brilliantline Dichroic 12V MR16 50W	10°	13000	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 TITAN 46870 FL	24°	4400	Brilliantline Dichroic 12V MR16 50W	24°	4400	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 TITAN 46870 WFL	36°	2200	Brilliantline Dichroic 12V MR16 50W	36°	2200	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51 TITAN 46870 VWFL	60°	1200	Brilliantline Dichroic 12V MR16 50W	60°	1100	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51S 44870 SP	10°	9000	Accentline 50W 12V	10°	6200	GU5.3
QR-CBC 51	50	46	51	ww	100	Decostar 51S 44870 WFL	36°	1450	Accentline 50W 12V	36°	1500	GU5.3
QR-CBC 51	50	46	51	ww	100	-	-	Accentline 50W 12V	60°	675	GU5.3	
Low voltage halogen reflector lamps (with aluminium reflector)												
QR-C51	20	46	51	ww	100	Decostar 51 ALU 41861 WFL	36°	510	Brilliantline Alu	36°	700	GU5.3
QR-C51	35	46	51	ww	100	Decostar 51 ALU 41866 WFL	36°	1100	Brilliantline Alu	36°	1500	GU5.3
QR-C51	50	46	51	ww	100	Decostar 51 ALU 41871 WFL	36°	1800	Brilliantline Alu	36°	2100	GU5.3
QR 111	35/30	65	111	ww	100	Halospot 111 41832 SSP	4°	30000	-	-	-	G53
QR 111	35/30	65	111	ww	100	Halospot 111 48832 ECO SP	6°	22500	MASTERline 111 30W	8°	23000	G53
QR 111	35/30	65	111	ww	100	Halospot 111 48832 ECO FL	24°	4200	MASTERline 111 30W	24°	4000	G53
QR 111	50/45	65	111	ww	100	Halospot 111 41835 SSP	4°	40000	-	-	-	G53
QR 111	50/45	65	111	ww	100	Halospot 111 48835 ECO SP	6°	33000	MASTERline 111 45W	8°	33000	G53
QR 111	50/45	65	111	ww	100	Halospot 111 48835 ECO FL	24°	5500	MASTERline 111 45W	24°	5300	G53
QR 111	50/45	65	111	ww	100	Halospot 111 48835 ECO WFL	45°	2000	MASTERline 111 45W	45°	1900	G53
QR 111	65/60	65	111	ww	100	Halospot 111 48837 ECO SP	6°	42000	MASTERline 111 60W	8°	48000	G53
QR 111	65/60	65	111	ww	100	Halospot 111 48837 ECO FL	24°	7000	MASTERline 111 60W	24°	8500	G53
QR 111	65/60	65	111	ww	100	Halospot 111 48837 ECO WFL	40°	2800	MASTERline 111 60W	45°	2800	G53



LAMP DATA OUTDOOR

Lamp type	PL	L	Ø	LF	Ra	OSRAM Reference	ECG Φ (lm)*	Philips Reference	ECG Φ (lm)*	Socket
	W	mm	mm		≥					
High voltage halogen lamps										
QT 14../m	60/53	51	14	ww	100	Halopin 66760 ECO	980	EcoHalo Clickline 53W 230V	850	G9
QT 18	40	67	19	ww	100	Halolux Ceram ECO 64491	590	-	-	B15d
QT 18	60	67	19	ww	100	Halolux Ceram ECO 64492	980	-	-	B15d
QT 18	60/53	86	19	ww	100	Halolux Ceram ECO 64406	980	Capsuleline ES MV 53W B15d	850	B15d
QT 18	70	86	19	ww	100	Halolux Ceram ECO 64494	1180	Capsuleline ES MV 70W B15d	1200	B15d
QT 18	100/105	86	19	ww	100	Halolux Ceram ECO 64496	1800	Capsuleline ES MV 105W B15d	1900	B15d
QT 18	150	86	19	ww	100	Halolux Ceram ECO 64498	2870	-	-	B15d
QT 18	205	98	15	ww	100	Halolux Ceram ECO 64499	4200	-	-	B15d
QT 32	70	105	33	ww	100	Halolux Ceram ECO 64400	1180	EcoClassic30 T32 70W	1200	E27
QT 32	100	105	33	ww	100	Halolux Ceram ECO 64401	1800	EcoClassic30 T32 105W	1980	E27
QT 32	150	105	33	ww	100	Halolux Ceram ECO 64402	2870	-	-	E27
QT 32	205	105	33	ww	100	Halolux Ceram ECO 64403	4200	-	-	E27
Low voltage pin base lamps, 12V										
QT 12-ax	25/20	44	12	ww	100	Halostar ECO 64429	500	MASTERCapsule 20W	420	GY6.35
QT 12-ax	35/30	44	12	ww	100	Halostar ECO 64432	860	MASTERCapsule 30W	750	GY6.35
QT 12-ax	50/45	44	12	ww	100	Halostar ECO 64440	1180	MASTERCapsule 45W	1250	GY6.35
QT 12-ax	60	44	12	ww	100	Halostar ECO 64447	1650	MASTERCapsule 60W	1700	GY6.35
QT 12-ax	90	44	12	ww	100	Halostar Starlite 64458S	1800	-	-	GY6.35
QT 12-ax	100	44	12	ww	100	-	-	Capsuleline	2200	GY6.35
High voltage halogen lamps, double ended										
QT-DE 12	120/150	115	12	ww	100	HALOLINE 64696 ECO	2300	Plusline Small 230V 150W	2250	R7s
QT-DE 12	160/200	115	12	ww	100	HALOLINE 64698 ECO	3300	Plusline Small 230V 200W	3520	R7s
QT-DE 12	230/300	115	12	ww	100	HALOLINE 64701 ECO	5000	Plusline Small 230V 300W	5600	R7s
QT-DE 12	400/500	115	12	ww	100	HALOLINE 64702 ECO	9000	Plusline Small 230V 500W	9900	R7s
QT-DE 12	750	186	12	ww	100	HALOLINE 64560	16100	Plusline Large 230V 750W	17100	R7s
QT-DE 12	1000	186	12	ww	100	HALOLINE 64740	22000	Plusline Large 230V 1000W	24200	R7s

* All luminous flux specifications relate to 25°C.

This catalogue uses the TOC (TRILUX ORDER CODE) order number system to aid efficient order processing. All luminaire references and system components are given a seven-digit TOC number. For luminaires and gear trays for continuous lines, a further two digits are added to the five-digit base code, these indicate the type of control gear used.

Example

Reference	TOC	...E	Mains	...K
8821/TCT26/32/42...	58 364...	...04		
8821/50-70HST/E-E...	13 168...			...02
8821/E27	13 170...		...10	

Example for TOC use

Luminaire reference: 8821/TCT26/32/42 **E**
 Complete TOC number: 58 364 **04**

The **E** in the luminaire reference (for electronic ballast) is found in this example with the **04** ending. We request that you only use complete seven-digit TOC numbers for the explicit reference of luminaires and system components with all orders.

Legend for switching variants, TOC

TOC Ending	Abbreviation	Meaning
00		Accessory
01	L	Inductive
02	K	Compensated
04	E	Electronic control gear, switchable
09	KK	Compensated, 2 circuits
10		Mains connection, direct
40	ET	Electronic control gear, switchable
41		Conventional transformer
43		Electronic transformer + L IND
45		Conventional transformer + L IND
50		Requires further components
51	ETDD	Electronic control unit, digitally dimmable (DALI)

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All technical data including dimensional and weight specifications have been checked carefully. Errors excepted. Possible colour deviations are due to printing processes. We reserve the right to modify in the interest of progress. Luminaires are partly shown with accessories that must be ordered separately. Images of installations may show custom manufactured luminaires. Printed on PEFC-certified paper in an environmentally friendly way.

Index

Abbreviation	Description
Version	
...B1...	Construction size 1
...B2...	Construction size 2
...Q...	Square

Abbreviation	Description
Application	
...A...	Bracket-mounted luminaire with bracket
...B...	Adjustable shield
...BK...	Anti-glare device, highly weather resistant
...BLS...	Anti-glare lamella, rigid
...D...	Luminaire for surface ceiling mounting
...DB...	Permissible versions can be supplied for systems for German Railway applications
...DWB...	Decorative wall mounting
...E...	Underground support, bitumised
...EMB...	Corner and post fixing
...ES...	Ground spike
...FP...	With welded flange plate
...G...	Protective grid
...GH...	Housing
...GK...	Control gear box
...GS...	Cover glass of spread glass
...H...	Suspended luminaire
...K...	Short bollard
...LB...	Lamella shield of galvanised sheet steel
...LR...	Luminaire with power reduction
...LRA...	Luminaire with power reduction, self-sufficient
...LS...	Light column
...M...	Post-top luminaire, luminaire body for multiple arrangements, double and triple
...M2...	Post-top luminaire, luminaire body for multiple arrangements, double
...MS...	Post strap of stainless steel
...RG...	Ribbed glass of non-laminated safety glass
...SG...	With flat cover
...Ü...	With rear door and cable junction box
...US...	Refurbishment set
...VE...	Supply unit for projector
...W...	Wall-mounted luminaire
...W-...	Diffuser
...WB...	Wall mounting
...ZB...	Cylinder shield of galvanised sheet steel
...ZR...	Accessory frame of die-cast aluminium

Index

Abbreviation	Description
Lighting technology/optical system	
...AB...	Specular optic, asymmetric wide light distribution
...AM...	Specular optic, asymmetric medium-wide light distribution
...AN...	Specular optic, asymmetric, near field
...AS...	Aluminium louvre, asymmetric light distribution
...AT...	Specular optic, asymmetric narrow light distribution
...CB...	Specular optic, symmetric wide light distribution
...FÜR...	With special optic for lighting of pedestrian crossings
...IA...	Secondary optic with asymmetric wide light distribution
...IS...	Secondary optic with rotationally symmetric wide light distribution
...L...	With upper light emission
...LA...	With asymmetric distribution lamella optic
...LO...	With rotationally symmetric distribution lamella optic
...R...	Specular optic, extremely wide light distribution
...RB...	Specular optic, rotationally symmetric wide light distribution
...RBS...	Specular optic, rotationally symmetric wide light distribution, pivotable
...RE...	Specular optic, rotationally symmetric narrow-angle light distribution
...RES...	Specular optic, rotationally symmetric narrow-angle light distribution, pivotable
...RMS...	Specular optic, rotationally symmetric medium-wide light distribution, pivotable
...RT...	Specular optic, rotationally symmetric narrow light distribution
...S...	Specular optic of highly specular anodised aluminium
...SA...	Specular optic, asymmetric light distribution
...SB...	Specular optic, symmetric wide light distribution
...SE...	Specular optic, symmetric narrow-angle light distribution
...SM...	Specular optic, symmetric medium-wide light distribution
...T...	Translucent diffuser
...T...	Reflector, narrow light distribution
...TB...	Reflector, narrow-wide light distribution
...ZO...	Cylinder optic, rotationally symmetric light distribution

