

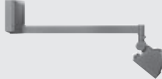


WE-EF LEUCHTEN
General Catalogue
Asia Pacific Edition
2019

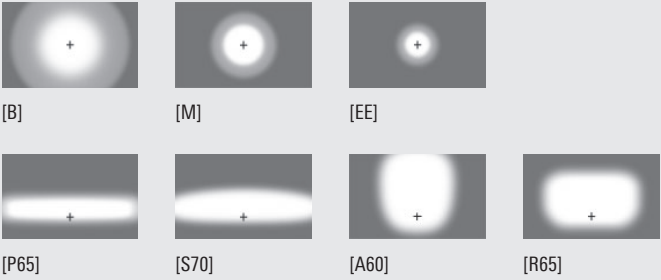
Floodlights




FLOODLIGHTS



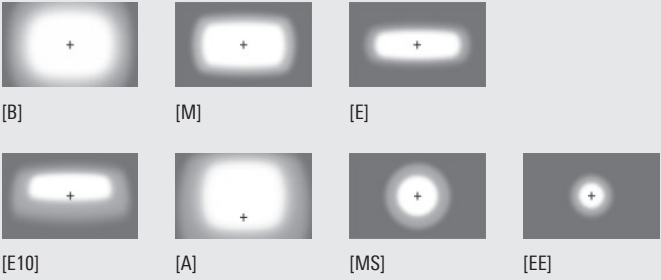
FLB100 #4 SERIES
Page 318-321
 [B] Symmetric distribution, wide beam
 [M] Symmetric distribution, medium beam
 [EE] Symmetric distribution, very narrow beam
 [P65] Pedestrian/bicycle lane distribution
 [S70] Streetlighting distribution
 [A60] Asymmetric 'forward throw' distribution
 [R65] Rectangular 'forward throw' distribution




FLB100 #1 #2 SERIES
Page 322-327
 [B] Symmetric distribution, wide beam
 [M] Symmetric distribution, medium beam
 [EE] Symmetric distribution, very narrow beam
 [P65] Pedestrian/bicycle lane distribution
 [S70] Streetlighting distribution
 [A60] Asymmetric 'forward throw' distribution
 [R65] Rectangular 'forward throw' distribution

FLB400 SERIES – HIT
Page 328-339
 [B] Bi-symmetric distribution, wide beam
 [M] Bi-symmetric distribution, medium beam
 [E] Bi-symmetric distribution, narrow beam
 [E10] 10° Asymmetric distribution, narrow beam
 [A] 45° Asymmetric distribution, wide beam
 [MS] Symmetric distribution, medium beam
 [EE] Symmetric distribution, very narrow beam





FLB100 #4 SERIES

[Factory-sealed] Bracket mounted floodlight. IP66. IK08. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey aluminium RAL 9007, anthracite grey RAL 7016 or white RAL 9016. Safety glass lens. Silicone CCG® Controlled Compression Gasket. Luminaire is factory-sealed and does not need to be opened during installation.

Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. OLC® One LED Concept. 1-10 V analogue dimming or DALI interface available on request.

Knuckle permits 350° horizontal and 90° vertical aiming of optics.

Light source:
LED 18-26 W, 3000 K and 4000 K

Available distributions:

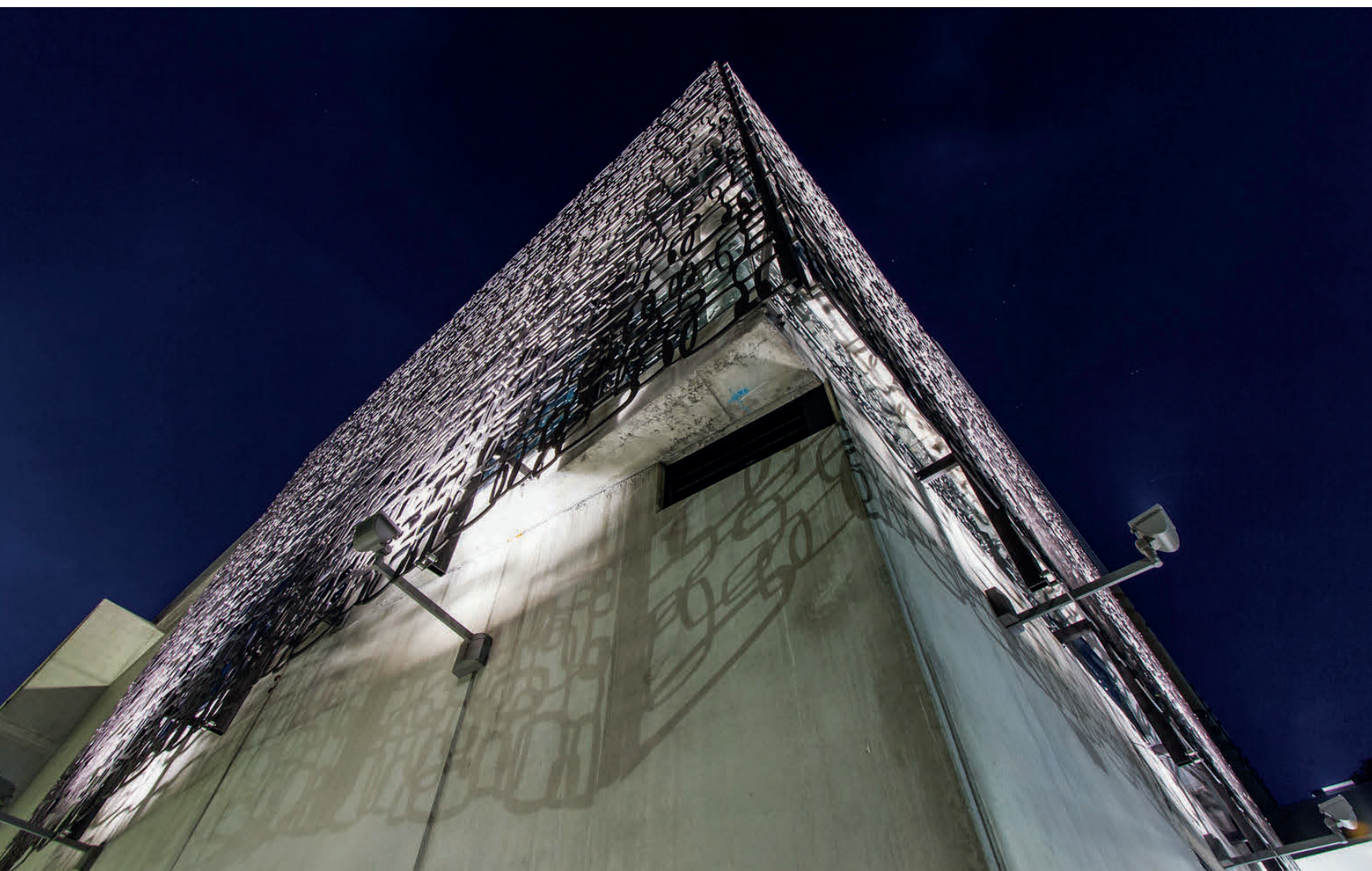
[B] [M] [EE]

[P65] [S70]

[A60] [R65]

Accessories:

■ Optical, page 327



The Avenue Hotel (AUS).



[B] [M] [EE]

IOS® Innovative Optical System:

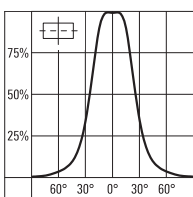
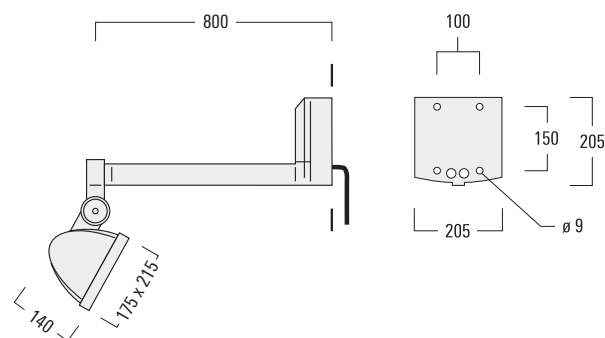
[B] Symmetric distribution, wide beam

[M] Symmetric distribution, medium beam

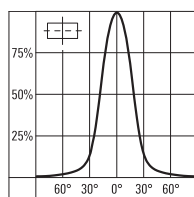
[EE] Symmetric distribution, very narrow beam



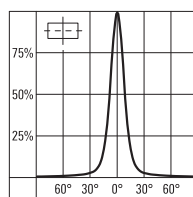
		3000 K	lm	4000 K	lm	cd/klm	C_0C_{180}
[B]							
FLB141 #4	6 LED 18W/1050 mA	161-5876	2340	161-5878	2700	892	26°/26°
FLB141 #4	6 LED 26W/1400 mA	161-5877	2993	161-5879	3453	892	26°/26°
[M]							
FLB141 #4	6 LED 18W/1050 mA	161-5880	2340	161-5882	2700	1657	19°/19°
FLB141 #4	6 LED 26W/1400 mA	161-5881	2993	161-5883	3453	1657	19°/19°
[EE]							
FLB141 #4	6 LED 18W/1050 mA	161-5884	2340	161-5886	2700	5300	9°/9°
FLB141 #4	6 LED 26W/1400 mA	161-5885	2993	161-5887	3453	5300	9°/9°



[B]



[M]



[EE]

Accessories:

Dimming interface

1-10 V	for FLB141	430-0011
DALI	for FLB141	430-0013



[P65]

[S70]

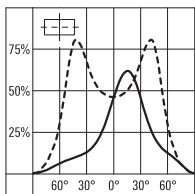
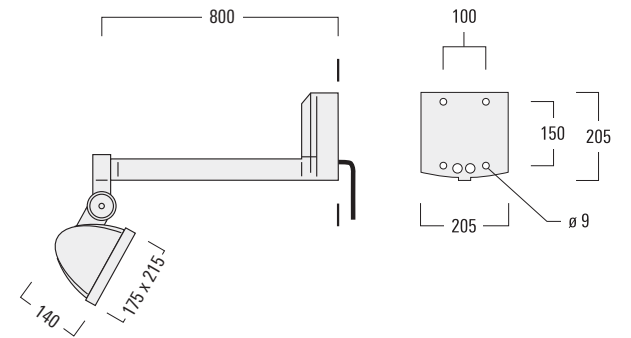
IOS® Innovative Optical System:

[P65] Pedestrian/bicycle lane distribution

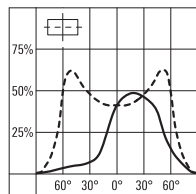
[S70] Streetlighting distribution



[P65]		3000 K	lm	4000 K	lm	cd/klm	C_0C_{180}
FLB141 #4	6 LED 18W/1050 mA	161-5892	2340	161-5894	2700	424	111°/47°
FLB141 #4	6 LED 26W/1400 mA	161-5893	2993	161-5895	3453	424	111°/47°
[S70]		3000 K	lm	4000 K	lm	cd/klm	C_0C_{180}
FLB141 #4	6 LED 18W/1050 mA	161-5888	2340	161-5890	2700	442	121°/54°
FLB141 #4	6 LED 26W/1400 mA	161-5889	2993	161-5891	3453	442	121°/54°



[P65]



[S70]

Accessories:

Dimming interface

1-10 V	for FLB141	430-0011
DALI	for FLB141	430-0013



[A60]

[R65]

IOS® Innovative Optical System:

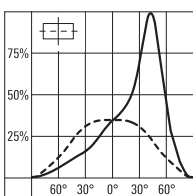
[A60] Asymmetric 'forward throw' distribution

[R65] Rectangular 'forward throw' distribution

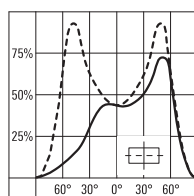


[A60]		3000 K	lm	4000 K	lm	cd/klm	C_0C_{100}
FLB141 #4	6 LED 18W/1050 mA	161-5900	2340	161-5902	2700	454	69°/38°
FLB141 #4	6 LED 26W/1400 mA	161-5901	2993	161-5903	3453	454	69°/38°

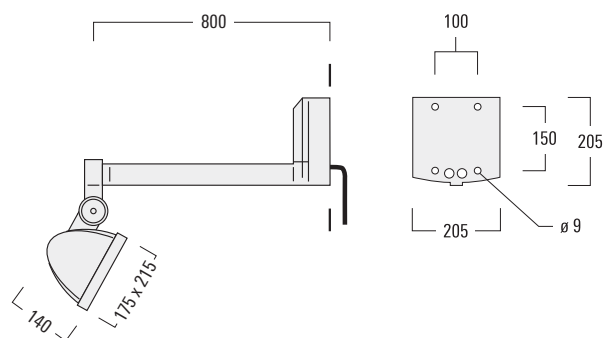
[R65]		3000 K	lm	4000 K	lm	cd/klm	C_0C_{100}
FLB141 #4	6 LED 18W/1050 mA	161-5896	2340	161-5898	2700	256	125°/82°
FLB141 #4	6 LED 26W/1400 mA	161-5897	2993	161-5899	3453	256	125°/82°



[A60]



[R65]



Accessories:

Dimming interface

1-10 V	for FLB141	430-0011
DALI	for FLB141	430-0013

FLB100 #1 #2 SERIES

[Factory-sealed] Floodlight. IP66. IK08. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey aluminium RAL 9007, anthracite grey RAL 7016 or white RAL 9016. Safety glass lens. Silicone CCG® Controlled Compression Gasket. Luminaire is factory-sealed and does not need to be opened during installation.

Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. OLC® One LED Concept. 1-10 V analogue dimming or DALI interface available on request.

Light source:
LED 18-26 W, 3000 K and 4000 K

Available distributions:

[B] [M] [EE]
[P65] [S70]
[A60] [R65]

Accessories:

- Mounting, page 326
- Optical, page 327





[B] [M] [EE]

IOS® Innovative Optical System:

[B] Symmetric distribution, wide beam

[M] Symmetric distribution, medium beam

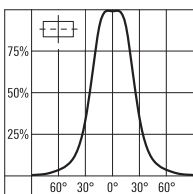
[EE] Symmetric distribution, very narrow beam



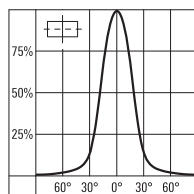
[B]		3000 K	lm	4000 K	lm	cd/klm	C ₀ C ₁₈₀
FLB141 #1	6 LED 18W/1050 mA	161-5820	2340	161-5822	2700	892	26°/26°
FLB141 #1	6 LED 26W/1400 mA	161-5821	2993	161-5823	3453	892	26°/26°
FLB141 #2	6 LED 18W/1050 mA	161-5848	2340	161-5850	2700	892	26°/26°
FLB141 #2	6 LED 26W/1400 mA	161-5849	2993	161-5851	3453	892	26°/26°

[M]		3000 K	lm	4000 K	lm	cd/klm	C ₀ C ₁₈₀
FLB141 #1	6 LED 18W/1050 mA	161-5824	2340	161-5826	2700	1657	19°/19°
FLB141 #1	6 LED 26W/1400 mA	161-5825	2993	161-5827	3453	1657	19°/19°
FLB141 #2	6 LED 18W/1050 mA	161-5852	2340	161-5854	2700	1657	19°/19°
FLB141 #2	6 LED 26W/1400 mA	161-5853	2993	161-5855	3453	1657	19°/19°

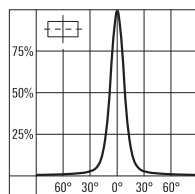
[EE]		3000 K	lm	4000 K	lm	cd/klm	C ₀ C ₁₈₀
FLB141 #1	6 LED 18W/1050 mA	161-5828	2340	161-5830	2700	5300	9°/9°
FLB141 #1	6 LED 26W/1400 mA	161-5829	2993	161-5831	3453	5300	9°/9°
FLB141 #2	6 LED 18W/1050 mA	161-5856	2340	161-5858	2700	5300	9°/9°
FLB141 #2	6 LED 26W/1400 mA	161-5857	2993	161-5859	3453	5300	9°/9°



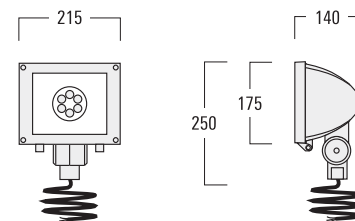
[B]



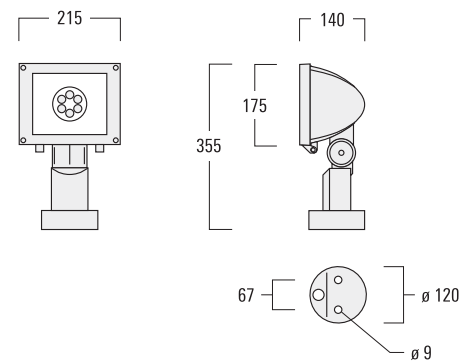
[M]



[EE]



FLB141 #1



FLB141 #2

Accessories:

Dimming interface

1-10 V	for FLB141	430-0011
DALI	for FLB141	430-0013



[P65]

[S70]

IOS® Innovative Optical System:

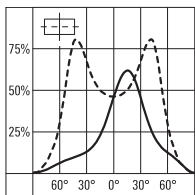
[P65] Pedestrian/bicycle lane distribution

[S70] Streetlighting distribution

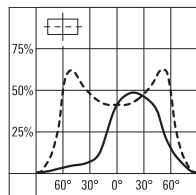


[P65]		3000 K	lm	4000 K	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$
FLB141 #1	6 LED 18W/1050 mA	161-5836	2340	161-5838	2700	431	57°/57°	24°/23°
FLB141 #1	6 LED 26W/1400 mA	161-5837	2993	161-5839	3453	431	57°/57°	24°/23°
FLB141 #2	6 LED 18W/1050 mA	161-5864	2340	161-5866	2700	431	57°/57°	24°/23°
FLB141 #2	6 LED 26W/1400 mA	161-5865	2993	161-5867	3453	431	57°/57°	24°/23°

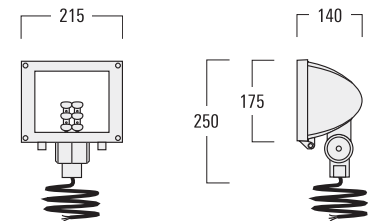
[S70]		3000 K	lm	4000 K	lm	cd/klm	C_0C_{180}	$C_{90}C_{270}$
FLB141 #1	6 LED 18W/1050 mA	161-5832	2340	161-5834	2700	452	64°/64°	30°/34°
FLB141 #1	6 LED 26W/1400 mA	161-5833	2993	161-5835	3453	452	64°/64°	30°/34°
FLB141 #2	6 LED 18W/1050 mA	161-5860	2340	161-5862	2700	452	64°/64°	30°/34°
FLB141 #2	6 LED 26W/1400 mA	161-5861	2993	161-5863	3453	452	64°/64°	30°/34°



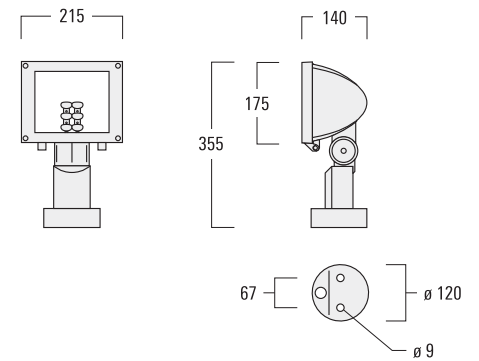
[P65]



[S70]



FLB141 #1



FLB141 #2

Accessories:

Dimming interface

1-10 V	for FLB141	430-0011
DALI	for FLB141	430-0013



[A60]

[R65]

IOS® Innovative Optical System:

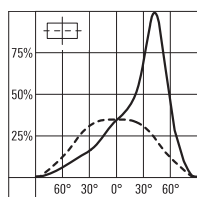
[A60] Asymmetric 'forward throw' distribution

[R65] Rectangular 'forward throw' distribution

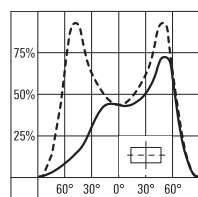


[A60]		3000 K	lm	4000 K	lm	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$
FLB141 #1	6 LED 18W/1050 mA	161-5844	2340	161-5846	2700	455	22°/16°	51°/51°
FLB141 #1	6 LED 26W/1400 mA	161-5845	2993	161-5847	3453	455	22°/16°	51°/51°
FLB141 #2	6 LED 18W/1050 mA	161-5872	2340	161-5874	2700	455	22°/16°	51°/51°
FLB141 #2	6 LED 26W/1400 mA	161-5873	2993	161-5875	3453	455	22°/16°	51°/51°

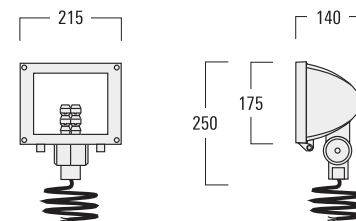
[R65]		3000 K	lm	4000 K	lm	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$
FLB141 #1	6 LED 18W/1050 mA	161-5840	2340	161-5842	2700	259	25°/25°	75°/15°
FLB141 #1	6 LED 26W/1400 mA	161-5841	2993	161-5843	3453	259	25°/25°	75°/15°
FLB141 #2	6 LED 18W/1050 mA	161-5868	2340	161-5870	2700	259	25°/25°	75°/15°
FLB141 #2	6 LED 26W/1400 mA	161-5869	2993	161-5871	3453	259	25°/25°	75°/15°



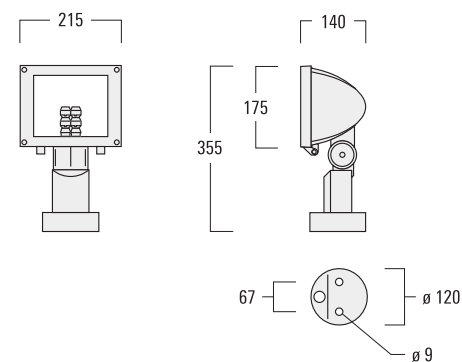
[A60]



[R65]



FLB141 #1



FLB141 #2

Accessories:

Dimming interface

1-10 V	for FLB141	430-0011
DALI	for FLB141	430-0013

MOUNTING ACCESSORIES – FLB100 #1 #2 SERIES

All mounting accessories are made from marine-grade aluminium alloy unless otherwise noted. 5CE superior corrosion protection including PCS hardware. Powdercoat finish to match luminaire.

Flat surface fitter			kg
SF-FLD1	for FLB141 #1	145-9535	0.2

Column fitter			kg
CF-FLD1	for FLB141 #1	145-9536	0.2

Ground spike – Stainless steel (including 5 m of flexible cable and plug).			kg
EF1	for FLB141 #1	310-9102	1.2
EF1	for FLB141 #2	146-0251	0.4

Pipe clamp		D	kg	
SP1	for 1 x FLB141 #2	146-0245	∅ 38-60	1.1
SP1	for 1 x FLB141 #2	146-0246	∅ 76-89	1.0
SP2	for 2 x FLB141 #2	146-0247	∅ 38-60	1.2
SP2	for 2 x FLB141 #2	146-0248	∅ 76-89	1.1

Junction box			kg
JB1	for FLB141 #2	310-9000	1.1

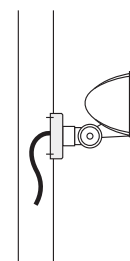
Short post – Matching planted root to be ordered separately.			kg
EM1	for FLB141 #2	146-0253	1.7

Planted root – Galvanised steel.			kg
ESV4	for short post	300-0461	4.4

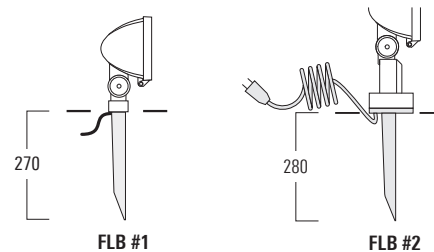
SF-FLD1



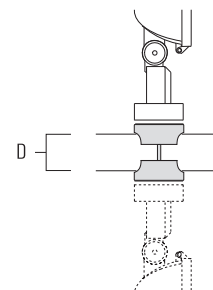
CF-FLD1



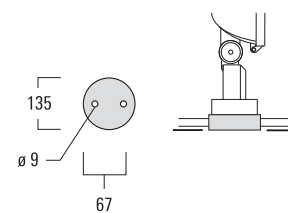
EF1



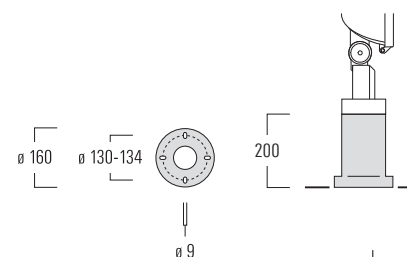
SP1/SP2



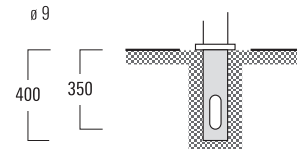
JB1



EM1



ESV4



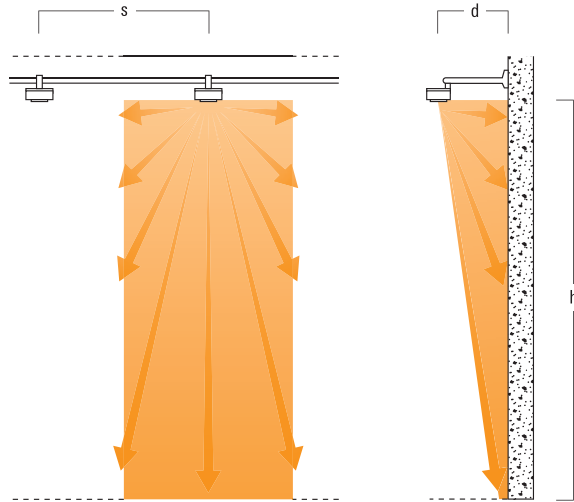
OPTICAL ACCESSORIES – FLB100 SERIES

IO-20 LED Wallwash Lens

Outstanding uniformity and broad corner-to-corner coverage are the hallmarks of this internally mounted accessory.

Wallwash lens – For symmetric [M] versions.

IO-20	for FLB141	161-5988
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Specifically developed for the lighting of architectural surfaces, in combination with WE-EF [M] symmetric medium beam LED optics. Luminaires fitted with the IO-20 wallwash lens are typically positioned at $0.125 \times h$ away from the target surface and spaced up to $1.75 \times d$ apart:

h = height of wall/target surface

$d = 0.125 \times h$ = distance from the wall/target surface

$s = 1.75 \times d$ = spacing between luminaires

The IO-20 LED wallwash lens is factory-installed within the luminaire.

Internal Accessories

One internal optical accessory. For example: wallwash lens, spread or flood lens, or louvre. Factory-installed.

Linear spread lens – For symmetric [B] [M] [EE] versions.

IO-180	for FLB141	161-5989
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Flood lens – For symmetric [B] [M] [EE] versions.

IO-360	for FLB141	161-5990
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Honeycomb louvre – For symmetric [B] [M] [EE] versions.

IW	for FLB141	146-0625
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External Accessories

One external optical accessory. For example: wire guard, shield, snoot, or barn doors.

Wire guard

EG	for FLB141	161-9118
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Glare shield

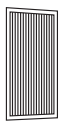
ES	for FLB141	161-9121
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Snoot

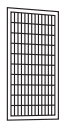
ET	for FLB141	161-9122
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Barn doors

ED	for FLB141	161-9119
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IO-180



IO-360



IW



EG



ES



ET



ED

FLB400 SERIES

Floodlight. IP66. IK08. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Powdercoat finish in black RAL 9004, grey aluminium RAL 9007 or white RAL 9016. Safety glass lens, hinged. Silicone CCG® Controlled Compression Gasket. Anodised aluminium reflector.

Integral HPF or ECG control gear in thermally-separated compartment. LPF versions available on request.

1000 W: Optional remote gear version with integral ignitor. Control gear to be ordered separately.

Light source:
HIT 70-1000 W

Available distributions:
[B] [M] [E] [E10] [A] [MS] [EE]

Accessories:
■ Mounting, page 338
■ Optical, page 339



LIT Hotel. Bangkok (TH). Architects: VaSLab Architecture. Lighting design: Accent Studio.



[B] [M] [E]

IOS® Innovative Optical System:

[B] Bi-symmetric distribution, wide beam

[M] Bi-symmetric distribution, medium beam

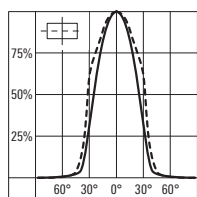
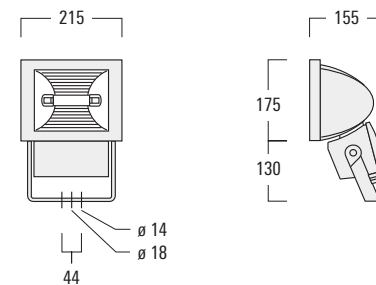
[E] Bi-symmetric distribution, narrow beam



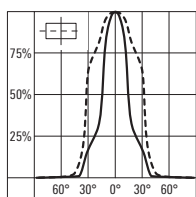
[B]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB440	HIT-DE-CE 70W/RX7s	161-9252	6800	[HPF]	638	25°/25°	32°/32°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-9748	6800	[ECG]	638	25°/25°	32°/32°	5.0
FLB440	HIT-CE 70W/G12	161-7252	7300	[HPF]	638	25°/25°	32°/32°	4.9
FLB440	HIT-CE 70W/G12	161-7263	7300	[ECG]	638	25°/25°	32°/32°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-9255	14500	[HPF]	665	25°/25°	32°/32°	6.6
FLB440	HIT-CE 150W/G12	161-7255	15000	[HPF]	665	25°/25°	32°/32°	5.4

[M]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB440	HIT-DE-CE 70W/RX7s	161-9183	6800	[HPF]	1011	15°/15°	32°/32°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-9239	6800	[ECG]	1011	15°/15°	32°/32°	5.0
FLB440	HIT-CE 70W/G12	161-7183	7300	[HPF]	1011	15°/15°	32°/32°	4.9
FLB440	HIT-CE 70W/G12	161-7192	7300	[ECG]	1011	15°/15°	32°/32°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-9186	14500	[HPF]	926	16°/16°	32°/32°	6.6
FLB440	HIT-CE 150W/G12	161-7186	15000	[HPF]	926	16°/16°	32°/32°	5.4

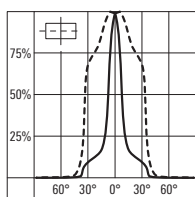
[E]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB440	HIT-DE-CE 70W/RX7s	161-9201	6800	[HPF]	1716	7°/7°	33°/33°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-9243	6800	[ECG]	1716	7°/7°	33°/33°	5.0
FLB440	HIT-CE 70W/G12	161-7201	7300	[HPF]	1716	7°/7°	33°/33°	4.9
FLB440	HIT-CE 70W/G12	161-7210	7300	[ECG]	1716	7°/7°	33°/33°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-9204	14500	[HPF]	1426	9°/9°	33°/33°	6.6
FLB440	HIT-CE 150W/G12	161-7204	15000	[HPF]	1426	9°/9°	33°/33°	5.4



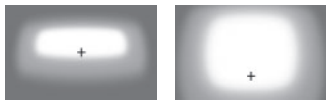
[B]



[M]



[E]



[E10]

[A]

IOS® Innovative Optical System:

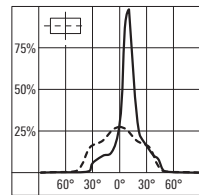
[E10] 10° Asymmetric distribution, narrow beam

[A] 45° Asymmetric distribution, wide beam

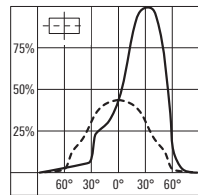


[E10]			lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB440	HIT-DE-CE 70W/RX7s	161-9219	6800	[HPF]	1645	8°/6°	34°/34°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-9726	6800	[ECG]	1645	8°/6°	34°/34°	5.0
FLB440	HIT-CE 70W/G12	161-7219	7300	[HPF]	1645	8°/6°	34°/34°	4.9
FLB440	HIT-CE 70W/G12	161-7228	7300	[ECG]	1645	8°/6°	34°/34°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-9222	14500	[HPF]	1128	8°/12°	34°/34°	6.6
FLB440	HIT-CE 150W/G12	161-7222	15000	[HPF]	1128	8°/12°	34°/34°	5.4

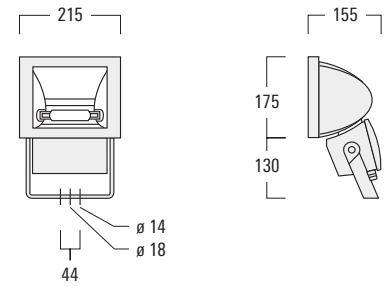
[A]			lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB440	HIT-DE-CE 70W/RX7s	161-9732	6800	[HPF]	478	30°/21°	38°/38°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-9745	6800	[ECG]	478	30°/21°	38°/38°	5.0
FLB440	HIT-CE 70W/G12	161-6034	7300	[HPF]	478	30°/21°	38°/38°	4.9
FLB440	HIT-CE 70W/G12	161-6037	7300	[ECG]	478	30°/21°	38°/38°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-9735	14500	[HPF]	442	25°/26°	40°/40°	6.6
FLB440	HIT-CE 150W/G12	161-6045	15000	[HPF]	442	25°/26°	40°/40°	5.4



[E10]



[A]



FLB440



[MS]

[EE]

IOS® Innovative Optical System:

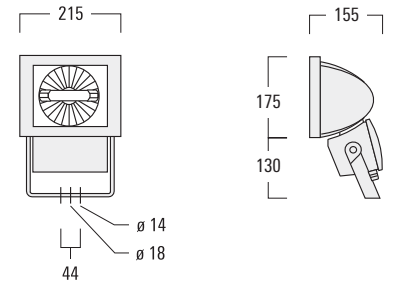
[MS] Symmetric distribution, medium beam

[EE] Symmetric distribution, very narrow beam

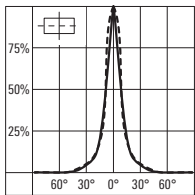


[MS]		lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB440	HIT-DE-CE 70W/RX7s	161-6528	6800	[HPF]	3947	8°/8°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-6531	6800	[ECG]	3947	8°/8°	5.0
FLB440	HIT-CE 70W/G12	161-6569	7300	[HPF]	3947	8°/8°	4.9
FLB440	HIT-CE 70W/G12	161-6572	7300	[ECG]	3947	8°/8°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-6534	14500	[HPF]	3345	8°/8°	6.6
FLB440	HIT-CE 150W/G12	161-6579	15000	[HPF]	3345	8°/8°	5.4

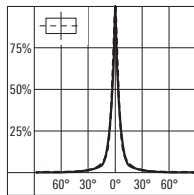
[EE]		lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB440	HIT-DE-CE 70W/RX7s	161-6547	6800	[HPF]	11342	3°/3°	6.1
FLB440	HIT-DE-CE 70W/RX7s	161-6550	6800	[ECG]	11342	3°/3°	5.0
FLB440	HIT-CE 70W/G12	161-6595	7300	[HPF]	11342	3°/3°	4.9
FLB440	HIT-CE 70W/G12	161-6598	7300	[ECG]	11342	3°/3°	3.8
FLB440	HIT-DE-CE 150W/RX7s	161-6553	14500	[HPF]	6158	4°/4°	6.6
FLB440	HIT-CE 150W/G12	161-6605	15000	[HPF]	6158	4°/4°	5.4



FLB440



[MS]



[EE]



[B] [M] [E]

IOS® Innovative Optical System:

[B] Bi-symmetric distribution, wide beam

[M] Bi-symmetric distribution, medium beam

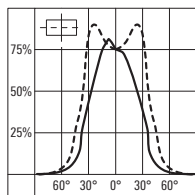
[E] Bi-symmetric distribution, narrow beam



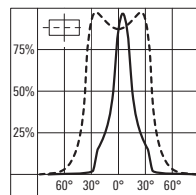
[B]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB460	HIT-CE 250W/E40	161-9832	26000	[HPF]	642	22°/35°	37°/37°	14.1
FLB460	HIT-DE 250W/Fc2	161-9842	20000	[HPF]	642	22°/35°	37°/37°	14.2
FLB460	HIT 400W/E40*	161-9835	35000	[HPF]	566	24°/39°	36°/36°	16.3
FLB460	HIT-DE 400W/Fc2	161-9845	37000	[HPF]	566	24°/39°	36°/36°	15.3

[M]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB460	HIT-CE 250W/E40	161-9323	26000	[HPF]	786	27°/10°	37°/37°	14.1
FLB460	HIT-DE 250W/Fc2	161-9332	20000	[HPF]	786	27°/10°	37°/37°	14.2
FLB460	HIT 400W/E40*	161-9326	35000	[HPF]	781	15°/23°	37°/37°	16.3
FLB460	HIT-DE 400W/Fc2	161-9335	37000	[HPF]	781	15°/23°	37°/37°	15.3

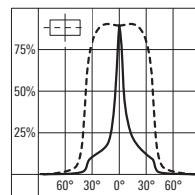
[E]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB460	HIT-CE 250W/E40	161-9392	26000	[HPF]	1168	5°/7°	37°/37°	14.1
FLB460	HIT-DE 250W/Fc2	161-9401	20000	[HPF]	1168	5°/7°	37°/37°	14.2
FLB460	HIT 400W/E40*	161-9395	35000	[HPF]	1132	6°/7°	36°/36°	16.3
FLB460	HIT-DE 400W/Fc2	161-9404	37000	[HPF]	1132	6°/7°	36°/36°	15.3



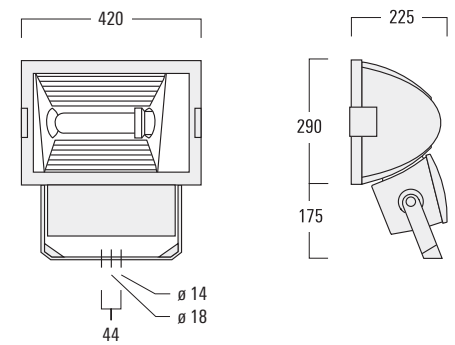
[B]



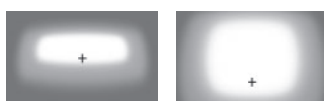
[M]



[E]



FLB460



[E10]

[A]

IOS® Innovative Optical System:

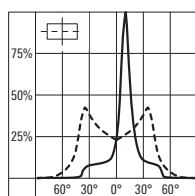
[E10] 10° Asymmetric distribution, narrow beam

[A] 45° Asymmetric distribution, wide beam

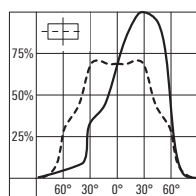


[E10]			lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB460	HIT-CE 250W/E40	161-6615	26000	[HPF]	1801	7°/6°	44°/44°	14.1
FLB460	HIT-DE 250W/Fc2	161-9440	20000	[HPF]	1801	7°/6°	44°/44°	14.2
FLB460	HIT 400W/E40*	161-6618	35000	[HPF]	1591	7°/6°	44°/44°	16.3
FLB460	HIT-DE 400W/Fc2	161-9443	37000	[HPF]	1591	7°/6°	44°/44°	15.3

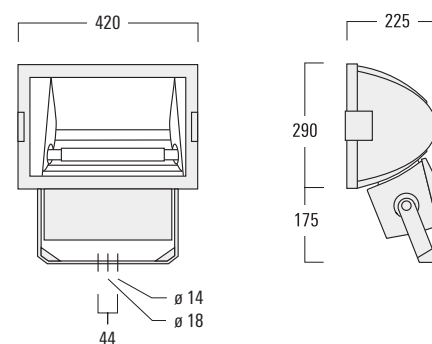
[A]			lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB460	HIT-DE 250W/Fc2	161-9461	20000	[HPF]	381	37°/31°	52°/52°	14.2
FLB460	HIT-DE 400W/Fc2	161-9464	37000	[HPF]	392	35°/33°	47°/47°	15.3



[E10]



[A]



FLB460

* Suitable for Osram HQI-BT 400W/D only, refer to lamp chart page 390



[MS]

[EE]

IOS® Innovative Optical System:

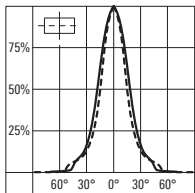
[MS] Symmetric distribution, medium beam

[EE] Symmetric distribution, very narrow beam

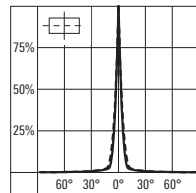


[MS]			lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB460	HIT-DE 250W/Fc2	161-9482	20000	[HPF]	1776	17°/17°	14°/14°	14.2
FLB460	HIT-DE 400W/Fc2	161-9485	37000	[HPF]	1294	20°/20°	20°/20°	15.3

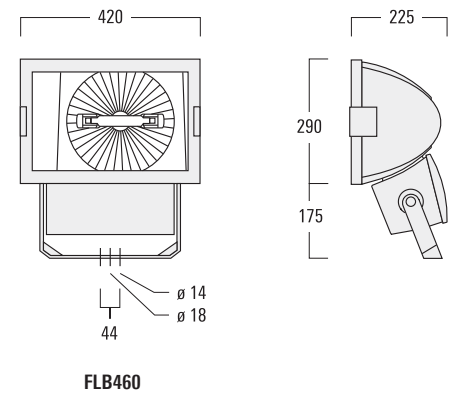
[EE]			lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB460	HIT-DE 250W/Fc2	161-9502	20000	[HPF]	23112	3°/3°	3°/3°	14.2
FLB460	HIT-DE 400W/Fc2	161-9505	37000	[HPF]	9250	4°/4°	5°/5°	15.3



[MS]



[EE]





IOS® Innovative Optical System:

[B] Bi-symmetric distribution, wide beam

[M] Bi-symmetric distribution, medium beam

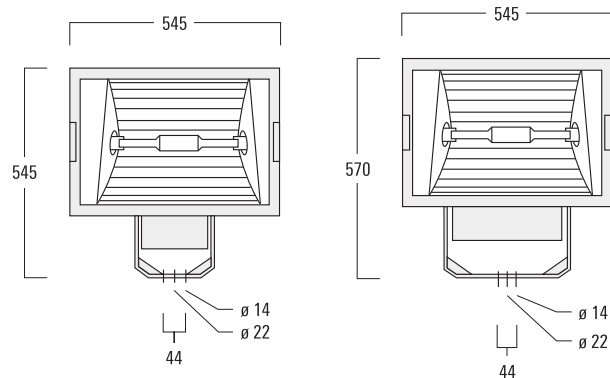
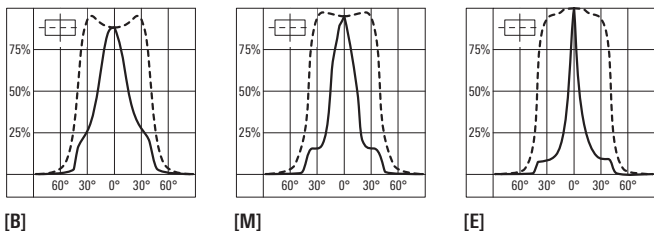
[E] Bi-symmetric distribution, narrow beam



[B]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB480	HIT 1000W/E40	148-9016	90000	[IGN]*	622	19°/20°	39°/39°	14.5
FLB480	HIT 1000W/E40	148-9002	90000	[HPF]	622	19°/20°	39°/39°	28.0
FLB480	HIT-LA-DE 1000W/Cable	148-9018	100000	[IGN]*	693	20°/18°	41°/41°	16.4
FLB480	HIT-LA-DE 1000W/Cable	148-9005	100000	[HPF]	693	20°/18°	41°/41°	28.0

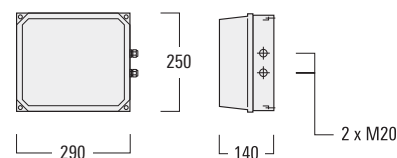
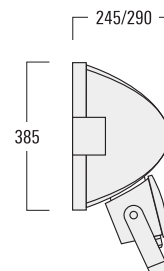
[M]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB480	HIT 1000W/E40	148-9046	90000	[IGN]*	777	15°/15°	39°/39°	14.5
FLB480	HIT 1000W/E40	148-9032	90000	[HPF]	777	15°/15°	39°/39°	28.0
FLB480	HIT-LA-DE 1000W/Cable	148-9048	100000	[IGN]*	842	16°/15°	40°/40°	16.4
FLB480	HIT-LA-DE 1000W/Cable	148-9035	100000	[HPF]	842	16°/15°	40°/40°	28.0

[E]			lm	Gear	cd/klm	C ₀ C ₁₈₀	C ₉₀ C ₂₇₀	kg
FLB480	HIT 1000W/E40	148-9076	90000	[IGN]*	1667	4°/4°	40°/40°	14.5
FLB480	HIT 1000W/E40	148-9062	90000	[HPF]	1667	4°/4°	40°/40°	28.0
FLB480	HIT-LA-DE 1000W/Cable	148-9078	100000	[IGN]*	1360	6°/6°	41°/41°	16.4
FLB480	HIT-LA-DE 1000W/Cable	148-9065	100000	[HPF]	1360	6°/6°	41°/41°	28.0



FLB480
Remote gear version*

FLB480
Integral gear version

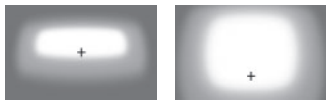


DK5

Accessories:

DK	Control gear box.			kg
DK5	for HI 1000W	400-0121 [HPF]	~ 230 V/8.90-9.70 A	13.0

* Remote gear version features integral, superimposed pulse ignitor.



[E10]

[A]

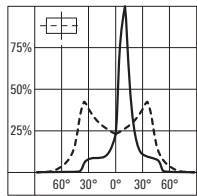
IOS® Innovative Optical System:

[E10] 10° Asymmetric distribution, narrow beam

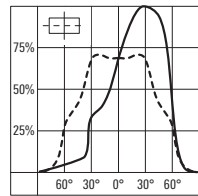
[A] 45° Asymmetric distribution, wide beam

[E10]		lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg	
FLB480	HIT-LA-DE 1000W/Cable	148-9096	100000	[IGN]*	1801	7°/6°	44°/44°	16.4
FLB480	HIT-LA-DE 1000W/Cable	148-9092	100000	[HPF]	1801	7°/6°	44°/44°	28.0

[A]		lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg	
FLB480	HIT-LA-DE 1000W/Cable	148-9106	100000	[IGN]*	381	37°/31°	52°/52°	16.4
FLB480	HIT-LA-DE 1000W/Cable	148-9102	100000	[HPF]	381	37°/31°	52°/52°	28.0



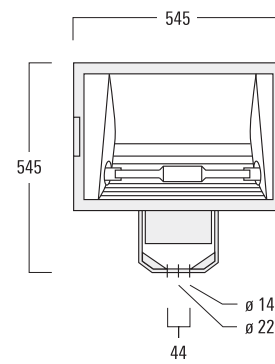
[E10]



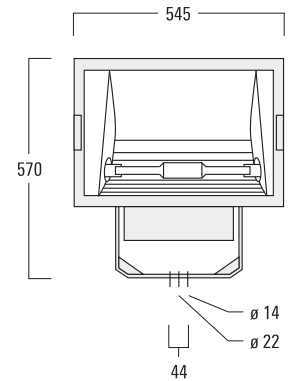
[A]

Accessories:

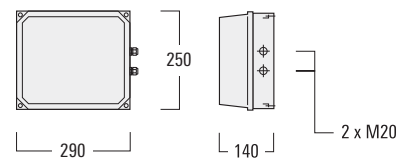
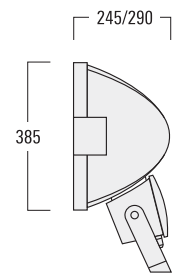
DK – Control gear box.			kg	
DK5	for HI 1000W	400-0121 [HPF]	~ 230 V/8.90-9.70 A	13.0



FLB480
Remote gear version*



FLB480
Integral gear version



DK5



[MS]

[EE]

IOS® Innovative Optical System:

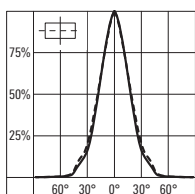
[MS] Symmetric distribution, medium beam

[EE] Symmetric distribution, very narrow beam

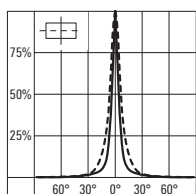


[MS]		lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB480	HIT-SA-DE 1000W/Cable	148-9116	90000	[IGN]*	1348	17°/17°	17°/17° 14.5
FLB480	HIT-SA-DE 1000W/Cable	148-9112	90000	[HPF]	1348	17°/17°	17°/17° 28.0

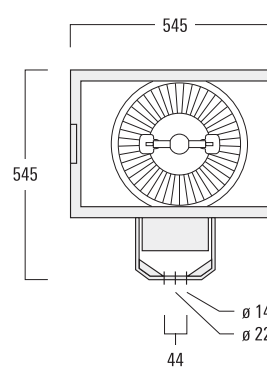
[EE]		lm	Gear	cd/klm	$C_0 C_{180}$	$C_{90} C_{270}$	kg
FLB480	HIT-SA-DE 1000W/Cable	148-9126	90000	[IGN]*	8338	4°/4°	6°/6° 14.5
FLB480	HIT-SA-DE 1000W/Cable	148-9122	90000	[HPF]	8338	4°/4°	6°/6° 28.0



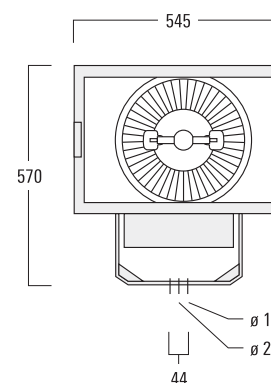
[MS]



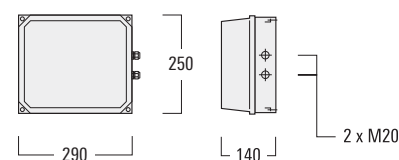
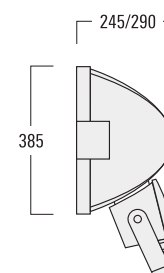
[EE]



FLB480
Remote gear version*



FLB480
Integral gear version



DK5

Accessories:

DK	Control gear box.			kg
DK5	for HI 1000W	400-0121 [HPF]	~ 230 V/8.90-9.70 A	13.0

* Remote gear version features integral, superimposed pulse ignitor.

MOUNTING ACCESSORIES – FLB400 SERIES

All mounting accessories are made from marine-grade aluminium alloy unless otherwise noted. 5CE superior corrosion protection including PCS hardware. Powdercoat finish to match luminaire.

Spigot cap			D	kg
KF1	for FLB440/460	310-9120	ø 60 x 100	1.4
KF1	for FLB440/460	310-9121	ø 76 x 100	2.2
KF1	for FLB480	310-9122	ø 60 x 100	1.5
KF1	for FLB480	310-9123	ø 76 x 100	2.2

Pipe clamp			D	kg
SP1	for 1 x FLB440/460	146-0241	ø 38-60	1.3
SP1	for 1 x FLB440/460	146-0242	ø 76-89	1.3
SP2	for 2 x FLB440/460	146-0243	ø 38-60	1.6
SP2	for 2 x FLB440/460	146-0244	ø 76-89	1.5

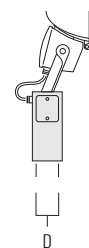
Pole clamp			D	kg
TS1	for 1 x FLB440/460	147-0543	ø 76-89	1.4
TS1	for 1 x FLB440/460	147-0643	ø 114-140	1.7
TS2	for 2 x FLB440/460	147-0545	ø 76-89	1.4
TS2	for 2 x FLB440/460	147-0674	ø 114-140	1.7
TS1	for 1 x FLB480	147-0547	ø 76-89	1.5
TS1	for 1 x FLB480	147-0646	ø 114-140	1.8
TS2	for 2 x FLB480	147-0549	ø 76-89	1.5
TS2	for 2 x FLB480	147-0675	ø 114-140	1.8

Junction box				kg
JB1	for FLB440/460	310-9001		1.3
JB1	for FLB480	310-9003		1.4

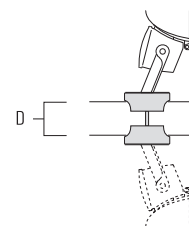
Ground spike – Galvanised steel, powdercoat finish in black.				kg
EF1	for FLB440 (including cable* and plug)	310-9100		1.0
EF1	for FLB440 (without cable and plug)	310-9101		0.4

Short post – Matching planted root to be ordered separately.				kg
EM1	for FLB440/460	270-9038		2.1
EM1	for FLB480	270-9039		2.1

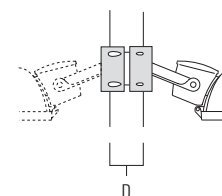
Planted root – Galvanised steel.				kg
ESV4	for short post	300-0461		3.2



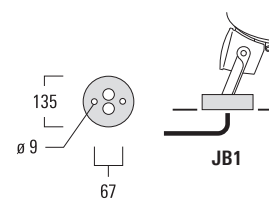
KF1



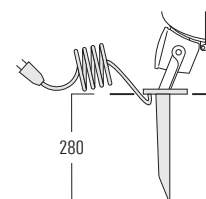
SP1/SP2



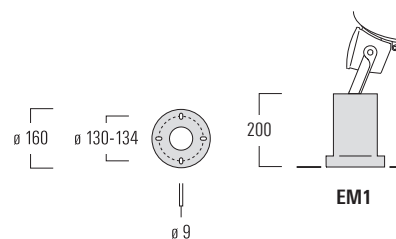
TS1/TS2



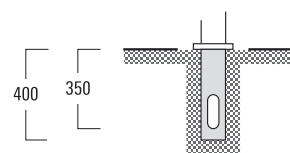
JB1



EF1



EM1



ESV4

OPTICAL ACCESSORIES – FLB400 SERIES

Internal Accessories

FLB440/460: A maximum of two internal optical accessories. For example: linear source shield, horizontal louvre, colour filter, plus flood or wallwash lens. Factory-installed.

Optical adaptor IA (where applicable) to be ordered separately.

FLB480: One internal optical accessory. For example: shield or louvre. Factory-installed.

Optical adaptor

IA	for FLB440	161-9115
IA	for FLB460	161-9546

Circular source shield – For symmetric [EE] versions.

IQ	for FLB440	161-9123
IQ	for FLB460	161-9543
IQ	for FLB480	148-9227

Linear source shield – For bi-symmetric [E] versions.

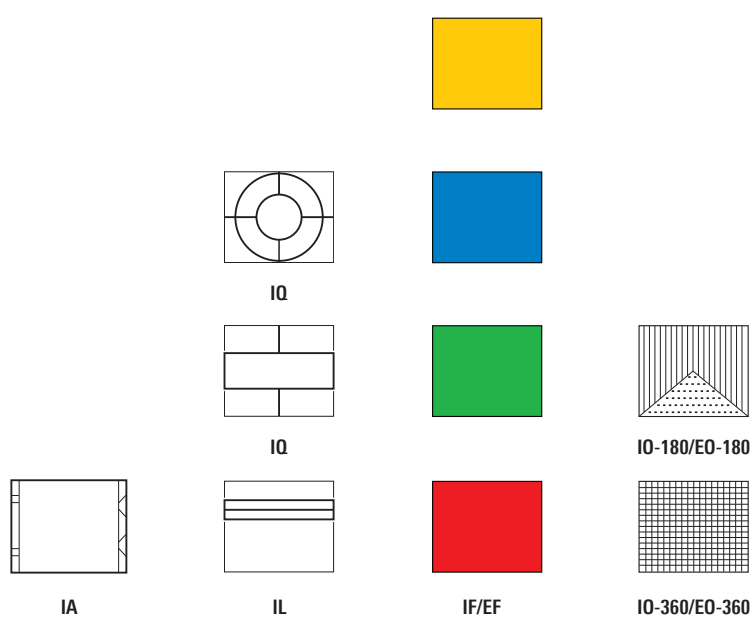
IQ	for FLB440	161-9117*
IQ	for FLB460	161-9555
IQ	for FLB480	148-9226

Horizontal louvre – For bi-symmetric [B] [M] versions.

IL	for FLB440	161-9116*
IL	for FLB460	161-9563
IL	for FLB480	148-9230

Horizontal louvre – For bi-symmetric [E] versions.

IL	for FLB440	161-9113*
IL	for FLB460	161-9544
IL	for FLB480	148-9231



External Accessories

FLB440/460: One external optical accessory. For example: wire guard, shield or barn doors.

FLB480: A maximum of three external optical accessories. For example: colour filter, flood or wallwash lens, plus wire guard, glare shield or barn doors.

Colour filter

IF***	for FLB440	on request
IF***	for FLB460	on request
EF***	for FLB480	on request

Flood lens – For bi-symmetric [M] [E]; asymmetric [E10]; symmetric [MS] [EE] versions.

IO-360	for FLB440	161-9127**
IO-360	for FLB460	161-9548*
EO-360	for FLB480	148-9237

Wallwash lens – For bi-symmetric [M] [E]; asymmetric [E10]; symmetric [MS] [EE] versions.

IO-180	for FLB440	161-9126**
IO-180	for FLB460	161-9547*
EO-180	for FLB480	148-9236

Wire guard

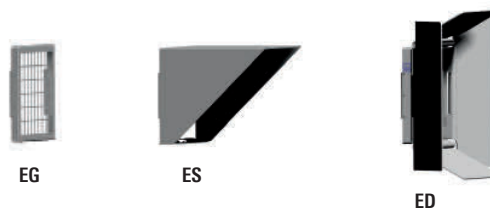
EG	for FLB440	161-9118
EG	for FLB460	161-9556
EG	for FLB480	148-9260

Glare shield – For bi-symmetric [B] [M] [E]; symmetric [MS] [EE] versions.

ES	for FLB440	161-9121
ES	for FLB460	161-9558
ES	for FLB480	148-9262

Barn doors

ED	for FLB440	161-9119
ED	for FLB460	161-9557
ED	for FLB480	148-9266



* Accessory requires optical adaptor IA, to be ordered separately.

** Accessory requires optical adaptor except when used with [MS] and [EE] versions; to be ordered separately.

*** Dichroic colour filters, in combination with bi-symmetric or asymmetric reflectors, exhibit a pronounced 'rainbow effect'.

Contact your local WE-EF representative for optional absorption colour filters.

WE-EF LEUCHTEN

GmbH & Co. KG

Toepinger Strasse 16

29646 Bispingen

Germany

Tel +49 5194 909 0

Fax +49 5194 909 299

info.asiapacific@we-ef.com

www.we-ef.com