

## Exterior Lighting and Underwater Lighting

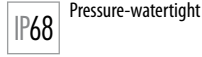
2012/2013



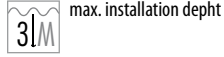
## Symbols



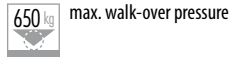
Waterproof



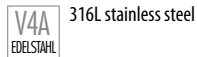
Pressure-watertight



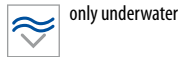
max. installation depth



max. walk-over pressure



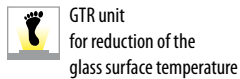
316L stainless steel



only underwater



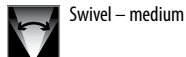
Cool Contact  
Temp. < 75°C



GTR unit  
for reduction of the  
glass surface temperature



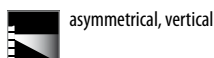
Swivel - flood



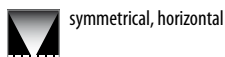
Swivel - medium



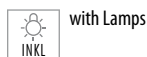
Swivel - spot



asymmetrical, vertical



symmetrical, horizontal



with Lamps



with cable

Details of all Symbols  
see page 179

## Headoffice

**Zentrale Deutschland**  
**WIBRE Elektrogeräte**  
**Edmund Breuninger GmbH & Co. KG**  
Liebigstraße 9 · 74211 Leingarten/Germany  
Phone: +49 (0) 7131 9053-0  
Fax: +49 (0) 7131 9053-19  
E-Mail: [info@wibre.de](mailto:info@wibre.de)  
Internet: [www.wibre.de](http://www.wibre.de)

## Germany

**PLZ: 40-48, 50-53, 56-59**  
**Dipl.-Ing. Michael Sauer**  
Schlesierstraße 2 · 47877 Willich  
Phone: +49 (0) 2156 9116-84  
Fax: +49 (0) 2156 9116-85  
E-Mail: [msauer@wibre.de](mailto:msauer@wibre.de)  
Internet: [www.wibre.de](http://www.wibre.de)

**PLZ: 54-55, 75-79, 60-61, 63-69**  
**Licht-Team**  
**Handelsvertretungen OHG**  
Wormser Landstr. 251  
67346 Speyer  
Phone: +49 (0) 6232 6069-11  
Fax: +49 (0) 6232 6069-15  
E-Mail: [info@das-licht-team.de](mailto:info@das-licht-team.de)  
Internet: [www.das-licht-team.de](http://www.das-licht-team.de)

## Europe

**Denmark**  
**Luceplan Scandinavia A/S**  
Pakhus 48-Frihavnen  
Klubinsvej 22  
2100 Copenhagen  
Phone: +45 36132100  
Fax: +45 36132101  
E-Mail: [info@luceplan.net](mailto:info@luceplan.net)  
Internet: [www.luceplan.net](http://www.luceplan.net)

**Finland**  
**Malux Finland Oy**  
Työpajatie 13a · FI-06150 Porvoo  
Phone: +358 (0) 1957457-00  
Fax: +358 (0) 1957457-50  
E-Mail: [info@malux.fi](mailto:info@malux.fi)  
Internet: [www.malux.fi](http://www.malux.fi)

**France**  
**WIBRE FRANCE**  
**ESPACE CRISTAL TECHNOPARC**  
M. Patrice Pradel  
22 rue Gustave Eiffel · BP 10058  
F-78306 Poissy Cedex  
Phone: +33 (0) 139 22 63 36  
Fax: +33 (0) 139 22 63 37  
Mobil: +33 (0) 622212678  
E-Mail: [france@wibre.de](mailto:france@wibre.de)  
Internet: [www.wibre.fr](http://www.wibre.fr)

**Greece**  
**FOSS SA**  
204, Kifisias AV. · 14562 Kifisia  
Phone: +30 210 72-50580  
Fax: +30 210 72-52162  
E-mail: [info@foss.gr](mailto:info@foss.gr)  
Internet: [www.foss.gr](http://www.foss.gr)

**Hungary**  
**LISYS Fényrendszer Zrt.**  
Kassák Lajos u. 81 · 1134  
Budapest  
Phone: +36 (1) 359 9841  
Fax: +36 (1) 359 0360  
E-Mail: [mail@lisys.hu](mailto:mail@lisys.hu)  
Internet: [www.lisys.hu](http://www.lisys.hu)

**Iceland**  
**Iskraft**  
Smiðjuvegur 5  
200 Kópavogur · Iceland  
Phone: +354 5351200  
Fax: +354 5351201  
E-mail: [pall@iskraft.is](mailto:pall@iskraft.is)  
Internet: [www.iskraft.is](http://www.iskraft.is)

**Luxembourg**  
**SIPEL Sàrl**  
42, ZAE Le Triangle Vert  
L-5691 Ellange-Mondorf  
Phone: +352 316660-1  
Fax: +352 316660-64  
E-Mail: [wibre@siipel.lu](mailto:wibre@siipel.lu)  
Internet: [www.sipel.lu](http://www.sipel.lu)

**Netherlands**  
**ESZET Lighting B.V.**  
Postbox 64 · 3840 Ab Harderwijk  
Van Leeuwenhoekstraat 21-23  
3846 Ca Harderwijk  
Phone: +31 (0) 341 4382-60  
Fax: +31 (0) 341 4382-90  
E-Mail: [eszet@eszet.nl](mailto:eszet@eszet.nl)  
Internet: [www.eszet.nl](http://www.eszet.nl)

**Norge**  
**Luminator as**  
Hvamsvingen 11  
2013 SKJETTEN  
Phone: +47 679785-10  
Fax: +47 679785-20  
E-Mail: [post@luminator.no](mailto:post@luminator.no)  
Internet: [www.luminator.no](http://www.luminator.no)

**Poland**  
**CANDELUX Sp. z o.o.**  
ul. Borsuczka 30 · PL-02-123  
Warszawa  
Phone: +48 (0) 22 8864852  
Fax: +48 (0) 22 8680989  
E-Mail: [warszawa@candelux.pl](mailto:warszawa@candelux.pl)  
Internet: [www.candelux.pl](http://www.candelux.pl)

**Spain**  
**Difusiona SL**  
Regàs, 3  
08006 Barcelona  
Phone: +34 93 362 22 79  
Fax: +34 93 241 79 47  
E-Mail: [info@difusiona.eu](mailto:info@difusiona.eu)  
Internet: [www.difusiona.eu](http://www.difusiona.eu)

**Sweden**  
**Malux Sweden AB**  
Box 221 · 891 25 Örnköldsvik  
Phone: +46 (0) 660 292900  
Fax: +46 (0) 660 85085  
E-Mail: [info@malux.se](mailto:info@malux.se)  
Internet: [www.malux.com](http://www.malux.com)

**Switzerland (french)**  
**Schröder Swiss S.A.**  
ZI de l'Ecorcheboeuf  
CH 1084 Carrouge  
Phone: +41(21)9030235  
Fax: +41(21)9033525  
E-Mail: [info@schreder.ch](mailto:info@schreder.ch)  
Internet: [www.schreder.ch](http://www.schreder.ch)

## Asia · Africa · America

**Asean – Thailand, Myanmar, Cambodia, Vietnam**  
**MOSAIC EINS Co Ltd.**  
97 Suanmali Soi 3  
Bamrung Muang Road  
Themsirin, Pomprab  
Bangkok 10100  
Phone: +66 26218200  
Fax: +66 26218180  
[service@mosaicins.com](mailto:service@mosaicins.com)

**East Asia – Hong Kong, China, Macau, Taiwan, Malaysia**  
**Anton W.C. Denker GmbH**  
Lindenstrasse 39  
20099 Hamburg/Germany  
Phone: +49 (0) 40 248456-0  
Fax: +49 (0) 40 248456-88  
[info@anton-denker.de](mailto:info@anton-denker.de)

**India**  
**Living Light India**  
**Total Lighting Solutions**  
18 Ismail Bldg. · 381 D N Road  
Fort, Mumbai 400 001  
Phone: +91 (0) 2222045905  
Fax: +91 (0) 22 22870765  
[maulik@livinglightindia.com](mailto:maulik@livinglightindia.com)  
[www.livinglightindia.com](http://www.livinglightindia.com)

**Versalite**  
**Hitech Lighting Pvt. Ltd**  
220, Khetwadi Main Road  
Tara Mansion, Ground Floor  
Mumbai - 400 004  
Phone: +91 22 4333 1818  
Fax: +91 22 4333 1819  
[marketing@versa-lite.com](mailto:marketing@versa-lite.com)  
[www.versa-lite.com](http://www.versa-lite.com)

**Israel**  
**H.S Oran Lighting LTD**  
St., Kvuzat L.G. 3  
IL Kfar Saba · Israel  
Phone: +00972 974666412  
Fax: +00972 97466643  
[oranlighting@bezeqint.net](mailto:oranlighting@bezeqint.net)

**Korea**  
**SJL Corp.**  
1102-1103 Sungjee Starwith  
954-6 Gwanyang-Dong,  
Dongan-Gu  
Anyang-Si, Gyeonggi-Do 463-060  
Republic of Korea  
Phone: +82-31-345-0345  
Fax: +82-31-345-0354  
[sjl@sjllighting.com](mailto:sjl@sjllighting.com)  
[www.sjllighting.com](http://www.sjllighting.com)

**Middle East – Lebanon, Saudi Arabia, Yemen, Oman, Qatar, United Arab Emirates, Bahrain, Kuwait**  
**DPS Industrial GmbH & Co. KG**  
Sachsenfeld 3-5  
20097 Hamburg/Germany  
Phone: +49 (0) 40 682897-0  
Fax: +49 (0) 40 682897-31  
[light@dps-industrial.de](mailto:light@dps-industrial.de)

**Tunisia**  
**Design Technologies**  
Z.I Sidi Daoud  
2045, La Marsa, Tunisia  
Phone: +216 71854444  
Fax: +216 71854447  
[dtek@designtechnologie.com](mailto:dtek@designtechnologie.com)  
[www.designtechnologie.com](http://www.designtechnologie.com)

**USA**  
**Designplan Lighting Inc.**  
79 Trenton avenue  
Frenchtown, NJ 08825 · USA  
Phone: +001 908 9967710  
Fax: +001 908 9967042  
[sales@designplan.com](mailto:sales@designplan.com)  
[www.designplan.com](http://www.designplan.com)

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# References



Client: TLS Productions, Perth, Lighting design: Luke Ellis, BCA Consultants Pty Ltd, Perth



Burswood Entertainment Complex, Intercontinental Hotel, Perth, Australia



Tauern Spa Kaprun, Austria



## References



Burswood Entertainment Complex, Perth		Australia	Esperanto	Fulda	Germany	Club Med Bali	Bali	Indonesia
AquaDome	Längenfeld	Austria	Europabad	Karlsruhe	Germany	Radisson Hotel Farnham Resorts Cavan		Ireland
Schlosshotel Fiss	Fiss	Austria	Franken-Lagune	Hirschaid	Germany	Porto di Palermo	Palermo	Italy
Tauern Spa	Kaprun	Austria	Franken-Therme	Bad Windsheim	Germany	Aquatic Center Seoul	Seoul	Korea
Europabad	Sofia	Bulgaria	Freizeitbad Cloppenburg	Cloppenburg	Germany	Olympiabad	Seoul	Korea
Novi Spa Hotel und Resort	Novi Vinodolski	Croatia	Hallenbad Wehrda	Wehrda	Germany	SeaLaLa	Seoul	Korea
Tivoli	Kopenhagen	Denmark	Hotel Buddersand	Sylt	Germany	Conrad		Maldives
Nile City Towers & Hotel	Cairo	Egypt	Hotel Das König Ludwig Allgäu	Schwangau	Germany	Maar Resort		Maldives
Sheraton Hotel & Casino	Cairo	Egypt	Hotel Die Sonne	Frankenberg	Germany	Valigandu Resort		Maldives
Sofitel El Gezirah	Cairo	Egypt	KissSalis Therme	Bad Kissingen	Germany	Hotel Banyan Tree	Marrakesch	Maroc
Aulanko Spa	Hämeenlinna	Finland	Kombibad Paffrath	Bergisch Gladbach	Germany	Hotel La Mamounia	Marrakesch	Maroc
Hallan Sauna		Finland	Kurhessen Therme	Kassel	Germany	Hotel Sofitel	Essaouira	Maroc
MARIEBAD spa	Mariehamn	Finland	Kurhessen Therme	Kassel	Germany	The Monte Carlo Bay Hotel	Montecarlo	Monaco
Mariebad Spa	Mariehamn	Finland	Mediterrana	Bergisch Gladbach	Germany	The Monte Carlo Beach Hotel	Montecarlo	Monaco
Salo municipal swimming hall		Finland	Minbearlbad	Freiburg	Germany	DGI Huset Herning	Herning	Netherlands
Salon Uimahalli	Salo	Finland	Miramar	Weinheim	Germany	Swimmingpool Bisonsport	Maarsse	Netherlands
Savo Karjalan Vesihuolto	Kuopio	Finland	Monte Mare	Rheinbach	Germany	Zportspectrum De Hoorn	Alphen aan de Rijn	Netherlands
Silja Opera		Finland	Naturtherme	Templin	Germany	Akker Brygge	Oslo	Norway
Tapiola municipal	Helsinki	Finland	Naturtherme	Templin	Germany	Atlanterhavsbadet	Kristiansund	Norway
Aquaboulevard	Paris	France	Nautimo	Wilhelmshaven	Germany	Furumo svømmehall	Furumo	Norway
Center Parc Lac d'Ailette	Reims	France	Nordsee Dünene Therme	St. Peter Ording	Germany	Jorekstad fritidsbad	Lillehammer	Norway
Center Parc Les Harcholins	Saarborg	France	Nordseetherme	Bensersiel	Germany	Nordlandsbadet	Bodø	Norway
Centre Aquatique de Beauvais		France	Ocean Wave	Norddeich	Germany	Rjukanbadet	Rjukan	Norway
Centre Aquatique du Havre		France	Olympiabad	München	Germany	Sea Water fountain	Molde	Norway
Centre nautique	Amberieu en buguey	France	Olympia-Bad	München	Germany	Skien Fritidspark	Skien	Norway
Complexe aquatique	Chartres	France	Panorama Bad	Beuren	Germany	Sorlandsbadet	Lyngdal	Norway
Parlament de Stasbourg	Stasbourg	France	Prienvera	Prien	Germany	Tøyenbadet	Oslo	Norway
Piscine	Laneuville	France	Rottalterme	Bad Birnbach	Germany	Cotroceni Park Shopping Centre	Bucharest	Romania
Piscine de Athis Mons	Athis Mons	France	Schwimbad Rotenburg Wümme	Rotenburg Wümme	Germany	Hotel Hyatt	Jekaterinburg	Russia
Piscine de Beauvais	Beauvais	France	Schwimmbad Nidderau	Nidderau	Germany	Pasarela Ferrol	Ferrol	Spain
Piscine du chateau d'eau reims	Reims	France	Schwimmbad Wilhelmsburg	Wilhelmsburg	Germany	Äventyrsbadet Pite Havsbad	Piteå	Sweden
Piscine Flottante sur la Seine	Paris	France	Sehusa Wasserwelt	Seesen	Germany	Badhus	LuleåHerts	Sweden
Piscine fougères 50	l'evêque	France	Sieban Berge Bad	Alfeld	Germany	Bureå Simhall	Skellefteå	Sweden
Piscine l'île de Puteaux		France	Sieben Welten	Künzell	Germany	Forsgrenska badet	Stockholm	Sweden
Pont de Normandie	Le Havre	France	Solemar	Bad Dürreheim	Germany	Fyrishovsbadet	Uppsala	Sweden
Pont Neuf	Toulouse	France	Spreewald Therme	Burg	Germany	Gustavsviksbadet	Örebro	Sweden
Terres Blanche Resort	Tourettes	France	Spreewaldtherme	Burg	Germany	Järfälla Simhall	Stockholm	Sweden
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Aquadrom	Hockenheim	Germany	Therme	Bad Aibling	Germany	Stöde Simhall	Sundsvall	Sweden
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Bäderland	Hamburg	Germany	Toskana Therme	Bad Orb	Germany	Cape Sol Villa	Phuket	Thailand
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			Olympiabad	Athen	Greece			
			Navarino Hotel	Pylos Messinia	Greece			
			Alftanes pool	Rejkjavik	Iceland			
			Blönduosi Swimming Pool	Blönduos	Iceland			
			Pelamörk Swimming-pool	Akureyri	Iceland			
			Seabird Resort	Goa	India			

# References







La Mamounia, Marrakesch, Maroc

# References





Sieben Welten Therme & Spa Resort, Künzell, Germany

# References





Therme Bad Wörishofen, Germany

## References



Norwegian Bank, Oslo, Norway



Tauern Spa	Kaprun	Austria	ICC Marriot Pune	Pune	India	Fossefall Aker brygge	Oslo	Norway
Arab Bank		Bahrain	Jal Mahal Water Palace	Jaipur	India	Luneta Boardwalk	Manila	Philippines
Clock Tower		Bahrain	Shaghayegh Square	Shiraz	Iran	SPA Ronneby Brunn	Ronneby	Sweden
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Bibliothèque de France	Paris	France	Cotai Galaxy Resort Casino, LAUREL Restauran		Macao	Airport	Dubai	U.A.E.
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Remparts de la Ville d'Annecy		France	Fontaine du Grand Casino		Monaco	Hilton Hanoi Opera		Vietnam
Fontaine place Jaude	Clermont-Ferrand	France	Folkebadet	Molde	Norway			
Fontaine de la Castellane	Marseille	France	Y-Bridge	Drammen	Norway			
Parc de Futuroscope	Poitiers	France	Breiavatnet	Stavanger	Norway			
Max-Schmeling-Halle	Berlin	Germany	Morild	Skien	Norway			
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Altstadtbrunnen	Bietigheim	Germany						
Deutsche Oper	Berlin	Germany						
Sonnenbrücke	Berlin	Germany						
Porschestrasse	Wolfdsburg	Germany						



## References



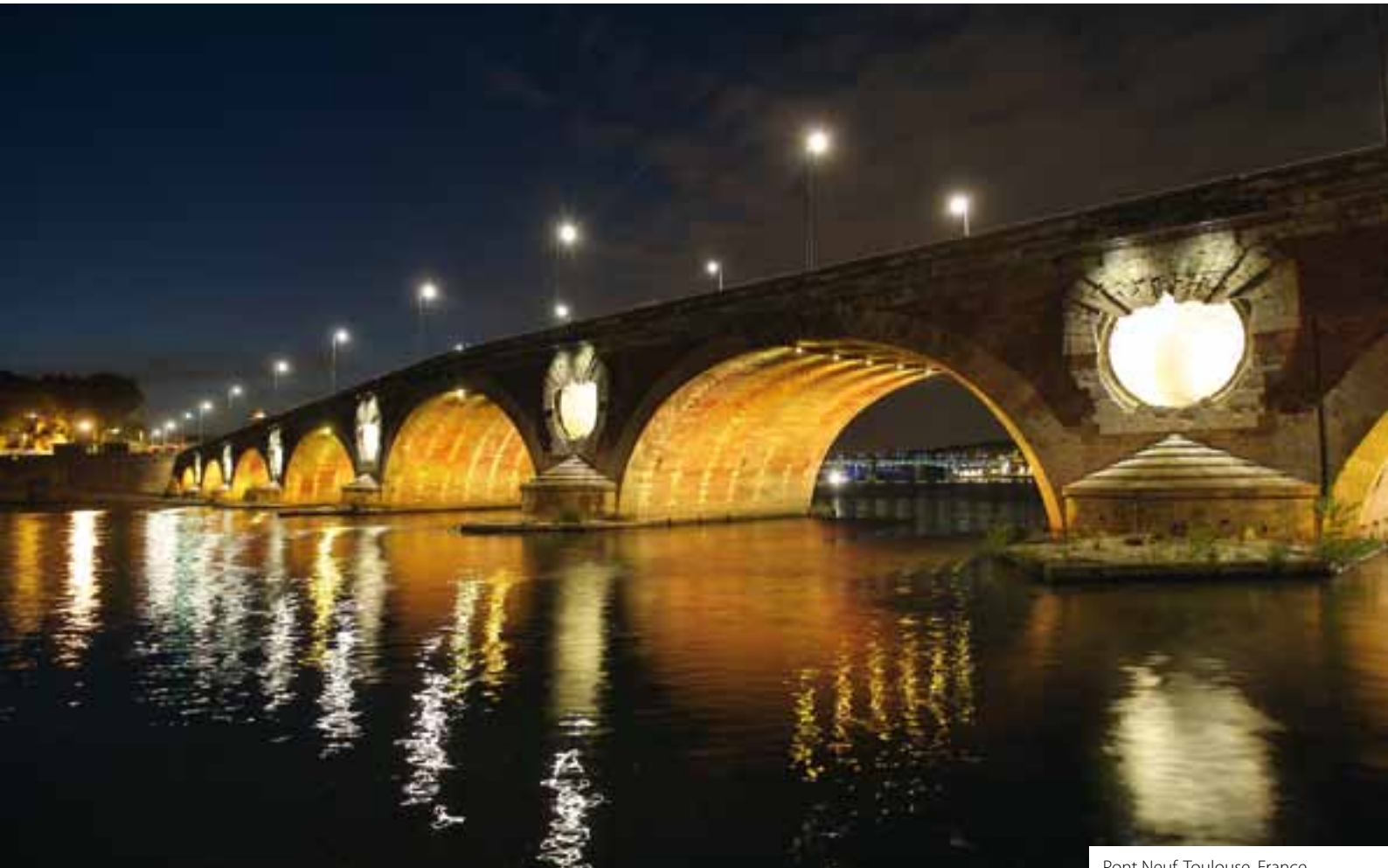




# References



Ypsilon Bridge, Drammen, Norway



Pont Neuf, Toulouse, France

# References



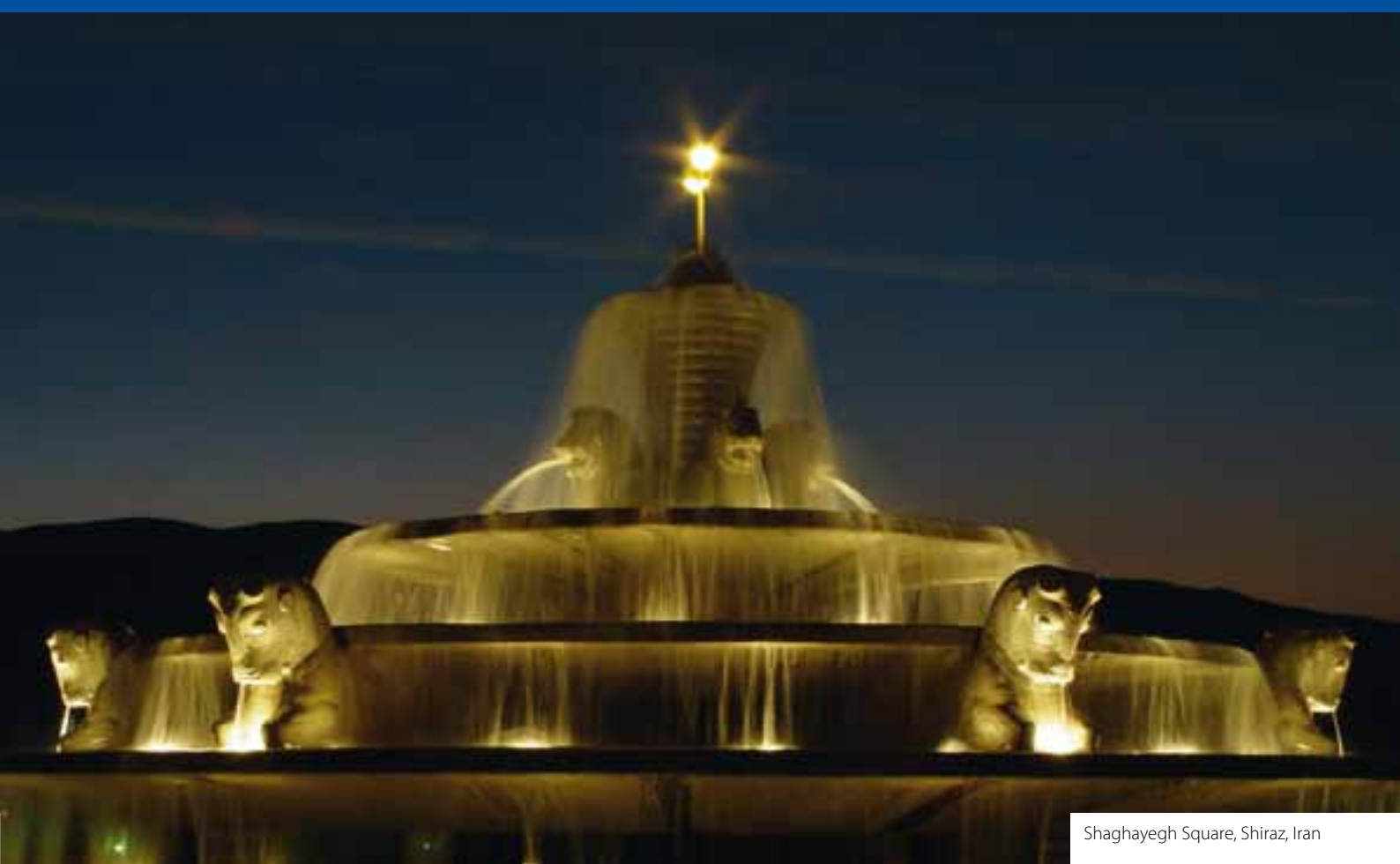
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Deutsche Oper, Götz-Friedrich-Platz, Berlin, Germany



Fontaine Casino, Monte Carlo, Monaco



Shaghayegh Square, Shiraz, Iran



Bormes, France



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Expo 2010 Pavillon France	Shanghai	China	Ponton du Hôtel Carlton	Cannes	France	Dream Forest Park	Seoul	Korea
Kowloon Station Square		China	Hôtel Costes	Paris	France	Crown Plaza Hotel		Kuwait
Hongkong Station Squar		China	Kreissparkasse	Heilbronn	Germany	Kuwait National Museum		Kuwait
Cathay Pacific Headquarters		China	Kreisverkehre	Leingarten	Germany	City of dreams		Macao
Hong Kong New World Tower		China	Energiekreisel	Worms	Germany	Catharinakapel	Harderwijk	Netherlands
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Airport	Guangzhou	China	Krauss Natursteine	Massanbach	Germany	New Dubai Airport	Dubai	U.A.E.
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Copenhagen Towers	Kopenhagen	Denmark	Romanos Hotels	Navarino Beach	Greece	American University	Sharjah	U.A.E.
Le Meridien Pyramids Spa	Gizeh	Egypt	Ocean Centre		Hong Kong	UNESCO & LAW Institute	Dubai	U.A.E.
Grand Rue	Sarrebourg	France	Government School		Hong Kong	Jumeirah Beach Residence	Dubai	U.A.E.
Château d'Azay le Rideau	Loire	France	Science Park Building		Hong Kong			
Zone piétonne	Reims	France	Hong Kong Station Development Northern Site		Hong Kong			
Tramway de Strasbourg	Strasbourg	France	Prince Edward Road West, Kowloon		Hong Kong			
			Repulse Bay Road		Hong Kong			
			Peak Road		Hong Kong			



# References



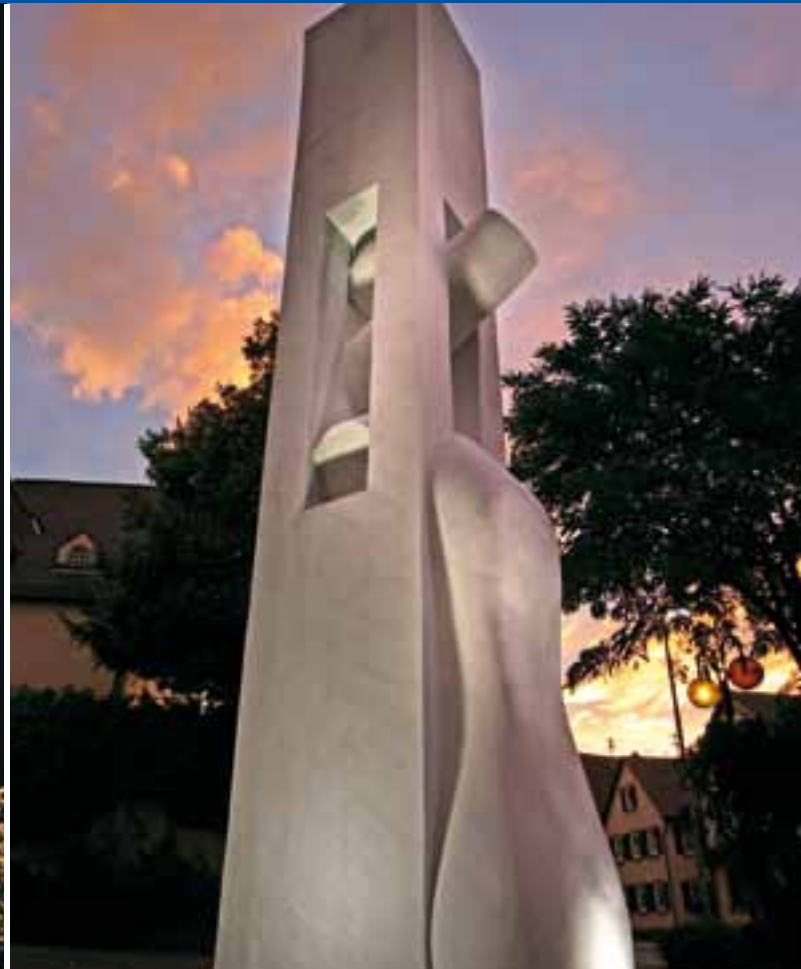
Lichterfest, Heilbronn, Germany





# References





## References



# Swimmingpool-Light



**NEW →** Swimmingpool-Light made V4A-stainless steel 316L**4.0282****DESCRIPTION**

- New installation with installation housing
- Spotlight, entirely made of V4A stainless steel 1.4571 EPOL
- Protection class IP68 – Water depth 5 m
- Round attachment cover, V4A stainless steel, (H2 mm, ø 240 mm)
- with POW-LED 24 x 3 W 700 mA/12 V-DC, coldwhite (6.000 K), neutralwhite (4.500 K), warmwhite (3.000 K), royalblue
- with 15 Multichip POW-LED RGB (3 x 3W) 45 x 3 W 700 mA/12 V-DC
- POW-LED-Platine temperature control (onboard)
- light distribution especially for swimming pool lighting „Multiflux“
- Supplied with lamp and 3 m cable
- Constant-current power source/ RGB controller external
- installation housing, depending on the installation situation must be ordered separately

**APPLICATION**

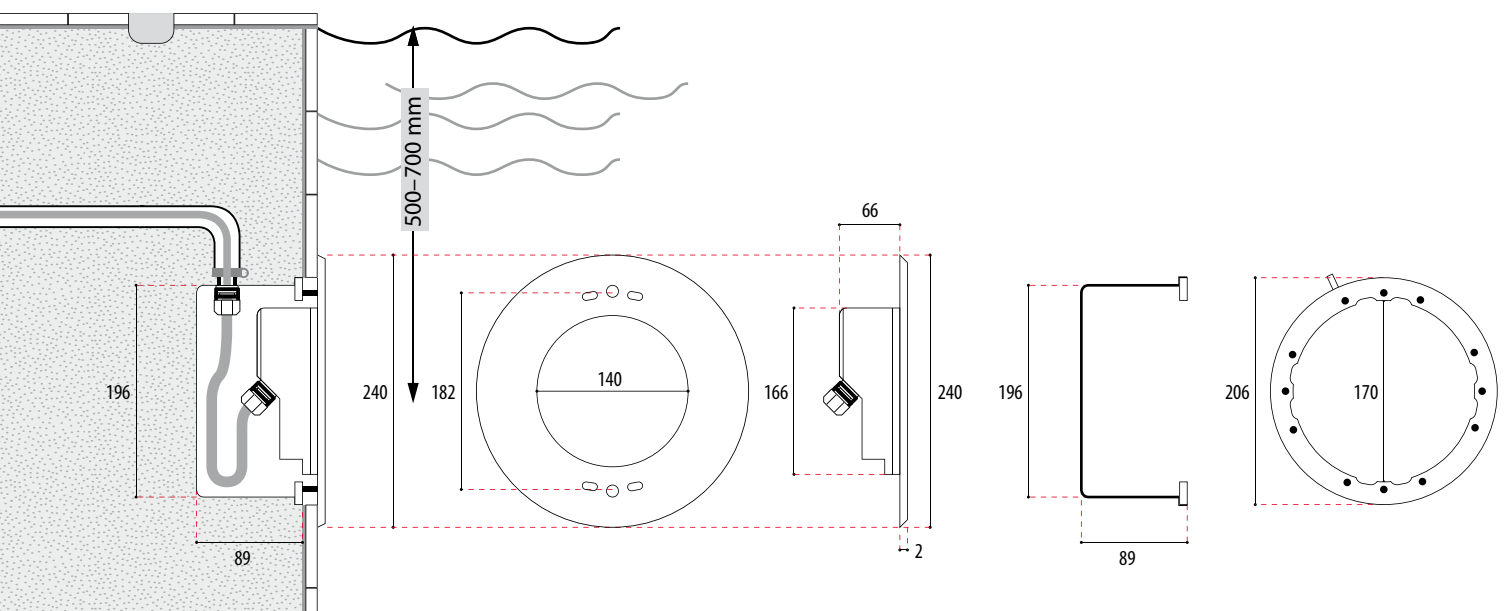
- For lighting medium and large swimming pools (up to approx. 25 x 15 m), water attractions, fountains installed in the wall or floor. Use with freshwater, chlorinated pool water and sea water.

**ACCESSORIES & POWER SUPPLIES**  
see page 33 and 137+**REFERENCES**

- Spotlights can (according to prior agreement) also be supplied without the connected cable to simplify installation with large cable lengths (up to max. 40m). The cable can be connected and cast to the connection box without opening the spotlight. Always observe the separate manual instructions. UW cable 9.6150.02.40 (with POW LED monochrome, single colour), 9.6150.06.40 (with POW LED RGB) and sealing compound 9.9011.00.25 have to be ordered separately.
- Suitable for pools with lifting floors or installation in the floor (height of the spotlight totals 2 mm)

**OPTIONS ON REQUEST**

- POW-LED with beam angle spot 10°, medium 30°, medium flood 45°, flood 90° and elliptical 15x40°
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Power supply pack/RGB controller in IP65 protective housing with 1 in/1 out on request. (5.0670.65.72)



## Swimmingpool-Light made V4A-stainless steel 316L ← NEW

4.0282



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radation angle	UW-Cable, installs
<b>Only underwater operation</b>						
<b>New installation in combination with installation housing</b>						
<b>Round attachment cover 2 mm, 3 m UW cable mounted and cast</b>						
4.0282.00.11	POW-LED cold white	6.000K	24 x 3 W (230 lm/LED = total 5520 lm )	700 mA/12 V DC	30°-120° Multiflux	(2x4,0 qmm)
4.0282.00.12	POW-LED warm white	3.000K	24 x 3 W (190 lm/LED = total 4560 lm)	700 mA/12 V DC	30°-120° Multiflux	(2x4,0 qmm)
4.0282.00.13	POW-LED neutral white	4.500K	24 x 3 W (215 lm/LED = total 5160 lm)	700 mA/12 V DC	30°-120° Multiflux	(2x4,0 qmm)
4.0282.00.16	POW-LED royal blue	460nm	24 x 3 W (650 mW/LED )	700 mA/12 V DC	30°-120° Multiflux	(2x4,0 qmm)
4.0282.00.19	15 Multichip POW-LED RGB (3x3 W)		45 x 3 W	700 mA/12 V DC	30°-120° Multiflux	(2x4,0 + 4x0,5 qmm)
<b>installation housing</b>						
4.0282.01.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in concrete pools with tile covering					
4.0282.02.00	made of V4A stainless steel with 1.5m protective cable tube and M20 plastic terminating connection, for installation in thin-walled pools and foil lined pools (pressure flange ø 244 mm)					
4.0282.03.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in pools with adhesive/foil coating (adhesive flange ø 350 mm)					
4.0282.04.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for welding into stainless steel pools					

# NEW → Retrofit-Swimmingpool-Light

## 4.0281



### DESCRIPTION

- Retrofit version for installation in existing installation housings 4.0274/4.0268 for retrofitting, e.g. halogen to LED.
- Spotlight, entirely made of V4A stainless steel 1.4571 EPOL
- Protection class IP68 – Water depth 5 m
- Round attachment cover, V4A stainless steel, (Height 2 mm, ø2 58 mm)
- with POW-LED 24 x 3 W 700 mA/12 V-DC, coldwhite (6000 K), neutralwhite (4500 K), warmwhite (3000 K), royalblue
- with 15 Multichip POW-LED RGB (3 x 3 W) 45 x 3 W 700 mA/12 V-DC
- POW-LED-Platine temperature control (onboard)
- light distribution especially for swimming pool lighting „Multiflux“
- Supplied with lamp, without cable
- Constant-current power source/ RGB controller external
- Installation housing present (WIBRE Serie 4.0274/4.0268)

### APPLICATION

- For retrofitting in existing swimming pools with existing installation housing (4.0268/4.0274). Light-output-equivalent replacement for halogen QT16 200 W/400 W and PAR56 300 W

### ACCESSORIES & POWER SUPPLIES

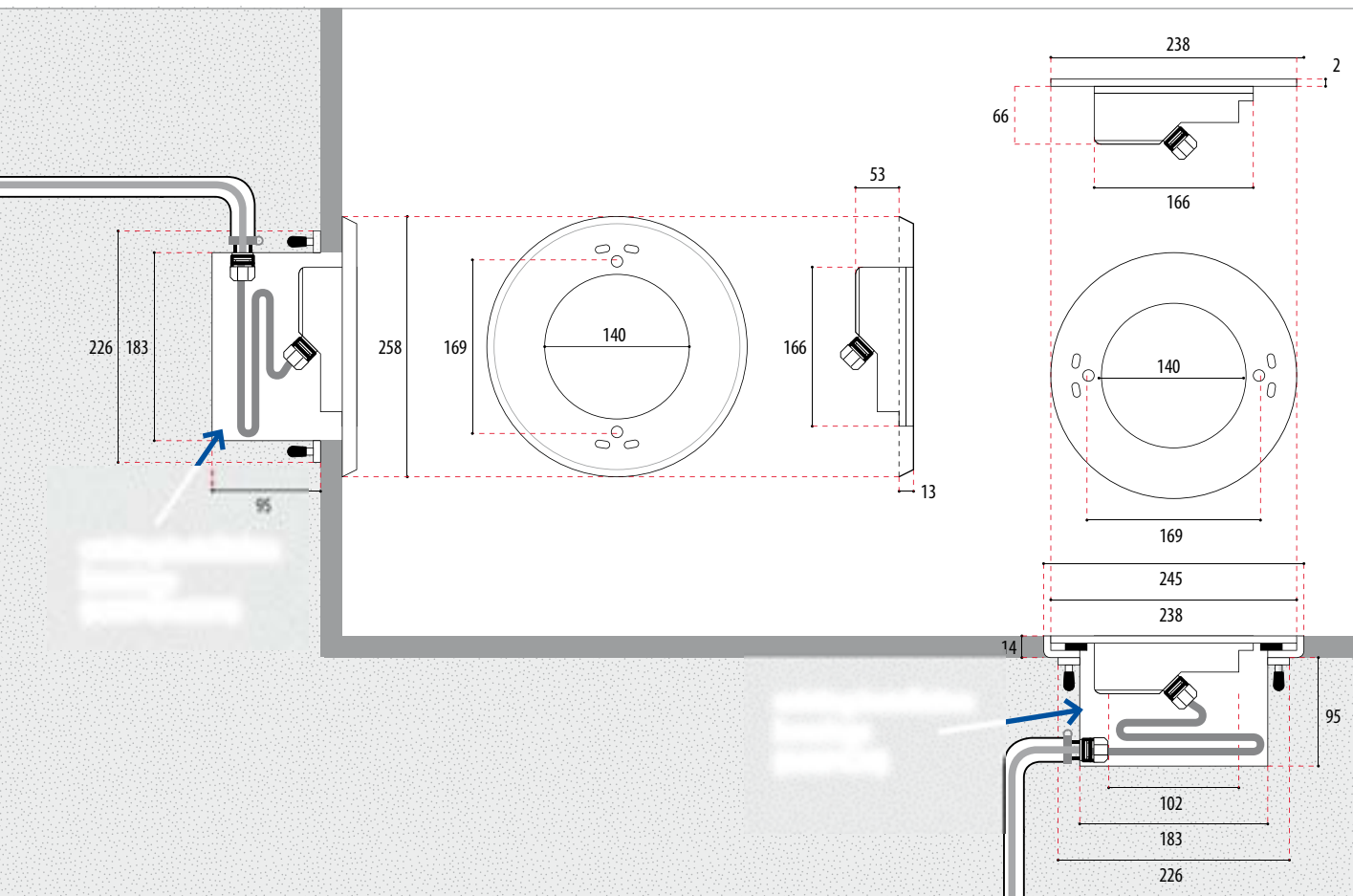
see page 33 and 137+

### REFERENCES

- Spotlights without connected cable for simple retrofitting of halogen to POW LED with use of the existing 2-pin cable (cross section min. 2x2.5qmm). The cable can be connected and cast to the connection box without opening the spotlight. Always observe the separate manual instructions. Sealing compound 9.9011.00.25 must be ordered separately.
- In case of retrofitting to RGB version, the cable must be replaced with a 6-pin special underwater cable (9.6150.04.40).
- Existing transformers must be replaced by appropriate power supply units and RGB controllers.

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30°, medium flood 45°, flood 90° and elliptical 15x40°
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Power supply pack/RGB controller in IP65 protective housing with 1 in/1 out on request. (5.0670.65.72)





# Retrofit-Swimmingpool-Light ← NEW

## 4.0281



Client: TLS Productions, Perth, Lighting design: Luke Ellis, BCA Consultants Pty Ltd, Perth

Burswood Entertainment Complex, Intercontinental Hotel, Perth, Australia

Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radation angle
<b>Only underwater operation</b>					
<b>Retrofit installation for installation housing 4.0274/4.0268</b>					
<b>Round attachment cover 13 mm, without cable, sealing compound optional</b>					
4.0281.00.11	POW-LED cold white	6.000K	24 x 3 W (230 lm/LED = total 5520 lm)	700 mA/12 V DC	30°-120° Multiflux
4.0281.00.12	POW-LED warm white	3.000K	24 x 3 W (190 lm/LED = total 4560 lm)	700 mA/12 V DC	30°-120° Multiflux
4.0281.00.13	POW-LED neutral white	4.500K	24 x 3 W (215 lm/LED = total 5160 lm)	700 mA/12 V DC	30°-120° Multiflux
4.0281.00.16	POW-LED royal blue	460nm	24 x 3 W (650 mW/LED)	700 mA/12 V DC	30°-120° Multiflux
4.0281.00.19	15 Multichip POW-LED RGB (3x3 W)		45 x 3 W	700 mA/12 V DC	30°-120° Multiflux
<b>Retrofit installation for installation housing 4.0274.75</b>					
<b>Flush cover, without cable, sealing compound optional</b>					
4.0281.75.11	POW-LED cold white	6.000K	24 x 3 W (230 lm/LED = total 5520 lm)	700 mA/12 V DC	30°-120° Multiflux
4.0281.75.12	POW-LED warm white	3.000K	24 x 3 W (190 lm/LED = total 4560 lm)	700 mA/12 V DC	30°-120° Multiflux
4.0281.75.13	POW-LED neutral white	4.500K	24 x 3 W (215 lm/LED = total 5160 lm)	700 mA/12 V DC	30°-120° Multiflux
4.0281.75.16	POW-LED royal blue	460nm	24 x 3 W (650 mW/LED)	700 mA/12 V DC	30°-120° Multiflux
4.0281.75.19	15 Multichip POW-LED RGB (3x3 W)		45 x 3 W	700 mA/12 V DC	30°-120° Multiflux

# Retrofit-Swimmingpool-Light



# Swimmingpool-Light made V4A-stainless steel 316L ← NEW

## power supplies & Accessories – 4.0281 · 4.0282

	5.0670.02.72 Power supply – IP20, for H-rail mounting, 12V/DC, 70-140W, for 1 – max. 2 spotlights, connection only of 24x3W monochrome module series 4.0282/282 – see page 142	5.0670.04.72 Power supply – IP20, for H-rail mounting, 12V/DC, 70-280 W, for 1 – max. 4 spotlights, connection only of 24x3W monochrome module series 4.0282/282 – see page 142	5.0670.09.45 RGB-Controller – IP20, for H-rail mounting, 700 mA, 12 V-DC, 1-130 W, for max. 1 spotlight, DMX in/out, Master/Slave, Stand-alone programs, connection only of 15-Multichip POW-LED RGB (3x3W) 45 x 3 W module series 4.0282/282 – see page 142	9.9011.00.25 Sealing compound – 2-K cartridge, 250 ml, with mixing tube – see page 149	9.0670.65.72 mounting housing – plastic, IP65, with 1 in/1 out, suitable for power supplies and RGB Controller series 4.0282/281 – see page 142	9.6150.02.40 Special underwater cable – per m, 2 x 4 qmm, ø 9 mm – see page 146	9.6150.04.40 Special underwater cable – per m, 2 x 4 qmm + 4 x 0,5 qmm, ø 11 mm – see page 146
Spotlight ↓	Power supplies			Accessories			
4.0281.00.11	● 1-2	● 1-4		●	●	●	
4.0281.00.12	● 1-2	● 1-4		●	●	●	
4.0281.00.13	● 1-2	● 1-4		●	●	●	
4.0281.00.16	● 1-2	● 1-4		●	●	●	
4.0281.00.19			● 1	●	●		●
4.0281.75.11	● 1-2	● 1-4		●	●	●	
4.0281.75.12	● 1-2	● 1-4		●	●	●	
4.0281.75.13	● 1-2	● 1-4		●	●	●	
4.0281.75.16	● 1-2	● 1-4		●	●	●	
4.0281.75.19			● 1	●	●		●
4.0282.00.11	● 1-2	● 1-4		●	●	●	
4.0282.00.12	● 1-2	● 1-4		●	●	●	
4.0282.00.13	● 1-2	● 1-4		●	●	●	
4.0282.00.16	● 1-2	● 1-4		●	●	●	
4.0282.00.19			● 1	●	●		●

## Swimmingpool-Light

4.0271



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a 13 mm thick cover
- For all standard pool types
- QT12 or QT16 light sources
- newest POW-LED with build in at max. Supply Wattage 24 V-DC/12V DC (SELV), optimization of beam angle character
- POW-LED-Platine temperatur control (NTC)
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical (halogen)
- Light source can be changed without draining the water (halogen)
- type 4.0272 with frosted glass for soft light distribution (light losses approx. 15 %)
- Supplied with light source and special underwater cable already connected

## APPLICATION

- For private and public swimmingpools, like leisure pools, hotel pools

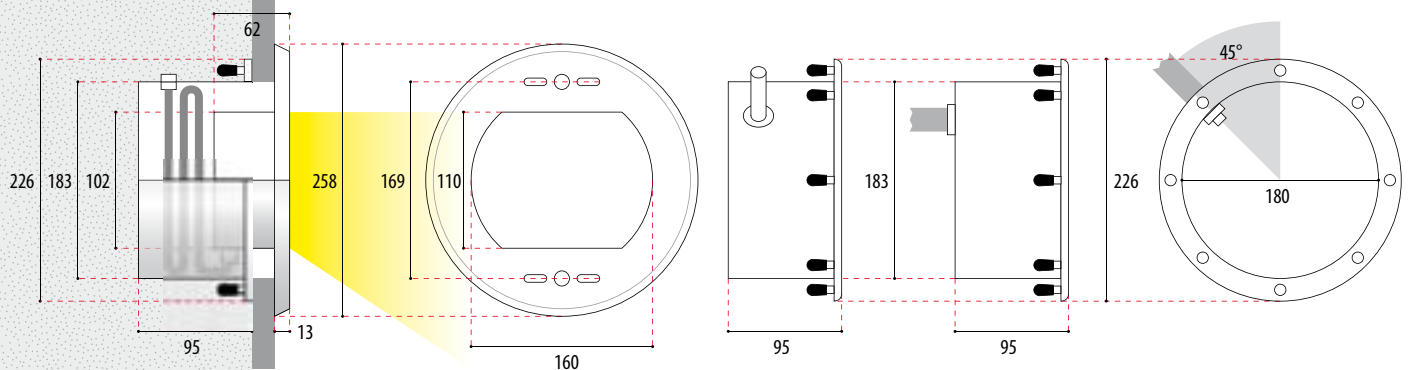
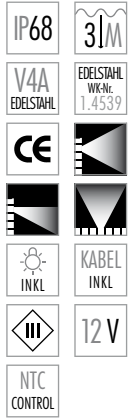
ACCESSORIES & POWER SUPPLIES  
see page 40 and 137+

## REFERENCES

- An installation housing is required for a new installation. Please order separately.
- Must only be operated with a WIBRE power supply or controller

## OPTIONS ON REQUEST

- Monochrome POW-LED available in red, green, blue, amber and warm white



## Swimmingpool-Light

4.0271



Hotel- Das König Ludwig Wellness &amp; SPA Resort Allgäu, Germany

Article number clear glass pane	Article number frosted glass pane	Lamps	Cable, installs	Wattage	Tension	Colour temper- ature	No. >163
<b>Only underwater operation</b>							
<b>halogen</b>							
4.0271.03.10	4.0272.03.10	QT12	3 m (2x2,5 mm <sup>2</sup> )	100W (2.200lm)	12V-AC	3.000K	B18
4.0271.06.10	4.0272.06.10	QT12	6 m (2x2,5 mm <sup>2</sup> )	100W (2.200lm)	12V-AC	3.000K	B18
4.0271.10.10	4.0272.10.10	QT12	10 m (2x2,5 mm <sup>2</sup> )	100W (2.200lm)	12V-AC	3.000K	B18
4.0271.03.17	4.0272.03.17	QT16	3 m (2x2,5 mm <sup>2</sup> )	175W (5.100lm)	12V-AC	3.000K	A11
4.0271.06.17	4.0272.06.17	QT16	6 m (2x4,0 mm <sup>2</sup> )	175W (5.100lm)	12V-AC	3.000K	A11
4.0271.10.17	4.0272.10.17	QT16	10 m (2x4,0 mm <sup>2</sup> )	175W (5.100lm)	12V-AC	3.000K	A11
4.0271.03.20	4.0272.03.20	QT16	3 m (2x2,5 mm <sup>2</sup> )	200W (5.800lm)	30V-DC	3.000K	A12
4.0271.06.20	4.0272.06.20	QT16	6 m (2x2,5 mm <sup>2</sup> )	200W (5.800lm)	30V-DC	3.000K	A12
4.0271.10.20	4.0272.10.20	QT16	10 m (2x2,5 mm <sup>2</sup> )	200W (5.800lm)	30V-DC	3.000K	A12
4.0271.03.40	4.0272.03.40	QT16	3 m (2x2,5 mm <sup>2</sup> )	400W (11.600lm)	30V-DC	3.000K	A14
4.0271.06.40	4.0272.06.40	QT16	6 m (2x2,5 mm <sup>2</sup> )	400W (11.600lm)	30V-DC	3.000K	A14
4.0271.10.40	4.0272.10.40	QT16	10 m (2x4,0 mm <sup>2</sup> )	400W (11.600lm)	30V-DC	3.000K	A14
<b>POW-LED 12 V-DC</b>							
4.0271.00.11		POW-LED cold white <input type="checkbox"/>	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (150 lm/LED = total 4050 lm)	700 mA/12 V-DC	6.000K	W62
4.0271.00.12		POW-LED warm white <input type="checkbox"/>	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (130 lm/LED = total 3510 lm)	700 mA/12 V-DC	3.000K	
4.0271.00.13		POW-LED neutral white <input type="checkbox"/>	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (140 lm/LED = total 3780 lm)	700 mA/12 V-DC	4.500K	
4.0271.00.26		POW-LED capri blue <input type="checkbox"/>	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (9 x blue, 9 x green, 9 x white)	700 mA/12 V-DC		
4.0271.00.19		POW-LED RGB <input type="checkbox"/>	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W	700 mA/12 V-DC		
<b>installation housing</b>							
4.0274.00.00	built in pot of 316L stainless steel with 1,5 m cable duct						
4.0274.00.50	built in pot of 316L stainless steel with 1,5 m cable duct, cable entry from behind						

# Swimmingpool-Light, saline version

## 4.0273



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Special corrosion-proof version made marine grade 904L stainless steel with a 13 mm thick cover
- for pools with increased saltwater concentration (up to 3.5 %)
- for all standard pool types
- QT12 or QT16 light sources
- newest POW-LED with build in at max. Supply Wattage 24 V-DC/12V DC (SELV), optimization of beam angle character
- POW-LED-Platine temperatur control (NTC)
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical (halogen)
- Light source can be changed without draining the water (halogen)
- type 4.0273.01 with frosted glass for soft light distribution (light losses approx. 15 %)
- Supplied with light source and special underwater cable (3 m) already connected
- Separate accessories required for plastic or metal pools

### APPLICATION

- For private and public swimmingpools, like leisure pools, hotel pools with increased saltwater concentration (suitable up to 3.5 %)

### ACCESSORIES & POWER SUPPLIES

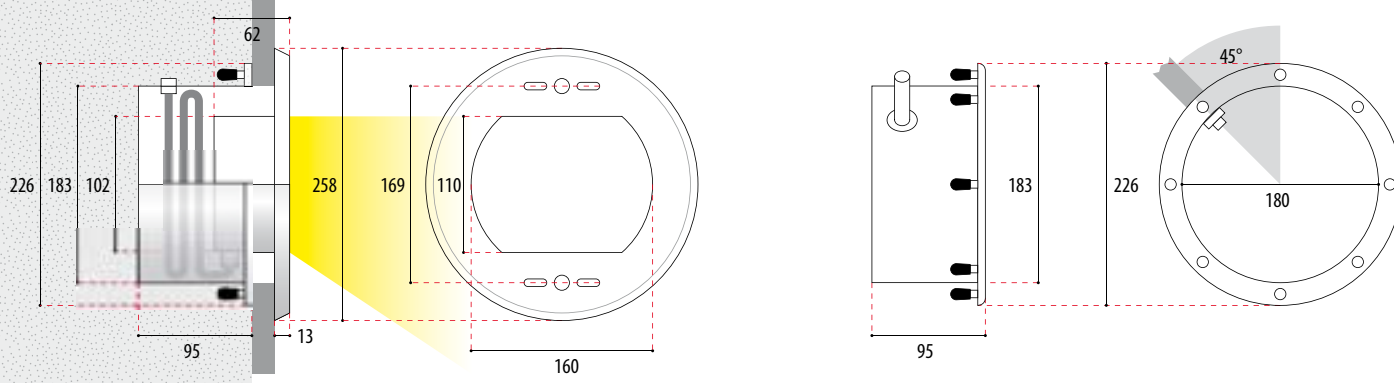
see page 40 and 137+

### REFERENCES

- An installation housing is required for a new installation. Please order separately.
- Must only be operated with a WIBRE power supply or controller
- Please check suitability (water analysis)

### OPTIONS ON REQUEST

- Monochrome POW-LED available in red, green, blue, amber and warm white



Article number clear glass pane	Article number frosted glass pane	Lamps	Cable, installs	Wattage	Tension	Colour temperature	No. >163
<b>Only underwater operation</b>							
<b>halogen</b>							
4.0273.00.10	4.0273.01.10	QT12	3 m (2x2,5 mm <sup>2</sup> )	100W (2.200lm)	12V-AC	3.000K	B18
4.0273.00.17	4.0273.01.17	QT16	3 m (2x2,5 mm <sup>2</sup> )	175W (5.100lm)	12V-AC	3.000K	A11
4.0273.00.20	4.0273.01.20	QT16	3 m (2x2,5 mm <sup>2</sup> )	200W (5.800lm)	30V-DC	3.000K	A12
4.0273.00.40	4.0273.01.40	QT16	3 m (2x2,5 mm <sup>2</sup> )	400W (11.600lm)	30V-DC	3.000K	A14
<b>POW-LED 12 V-DC</b>							
4.0273.00.11		POW-LED cold white	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (150 lm/LED = total 4050 lm)	700 mA/12 V-DC	6.000K	W62
4.0273.00.12		POW-LED warm white	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (130 lm/LED = total 3510 lm)	700 mA/12 V-DC	3.000K	
4.0273.00.13		POW-LED neutral white	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (140 lm/LED = total 3780 lm)	700 mA/12 V-DC	4.500K	
4.0273.00.26		POW-LED capri blue	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W (9 x blue, 9 x green, 9 x white)	700 mA/12 V-DC		
4.0273.00.19		POW-LED RGB	3 m (6x1 + 2x0,5 mm <sup>2</sup> )	27 x 3 W	700 mA/12 V-DC		
<b>installation housing</b>							
4.0274.73.00	built in pot of 316L stainless steel with 1,5 m cable duct, saline version						

# Swimmingpool-Light, flush installation

4.0275

## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a flush-mounted cover
- in connection with angled plastic ring for flush-mounted installation in tiled concrete pools (standard for 14 mm)
- QT12 or QT16 light sources
- newest POW-LED with build in at max. Supply Wattage 24 V-DC/12V DC (SELV), optimization of beam angle character
- POW-LED-Platine temperatur control (NTC)
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical (halogen)
- Light source can be changed without draining the water (halogen)
- type 4.0275.01 with frosted glass for soft light distribution (light losses approx. 15 %)
- Supplied with light source and special underwater cable (3 m) already connected

## APPLICATION

- For flush-mounted installation in private and public swimmingpools, like leisure pools, hotel pools

## ACCESSORIES & POWER SUPPLIES

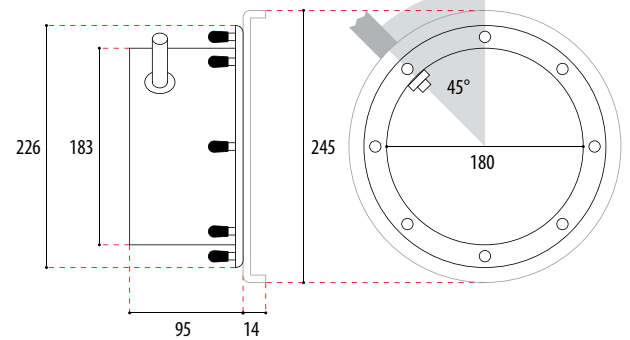
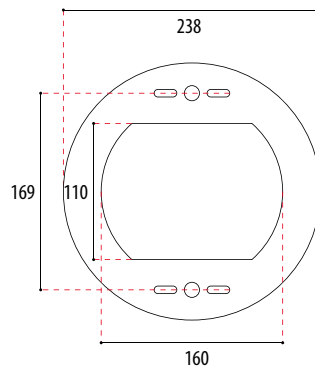
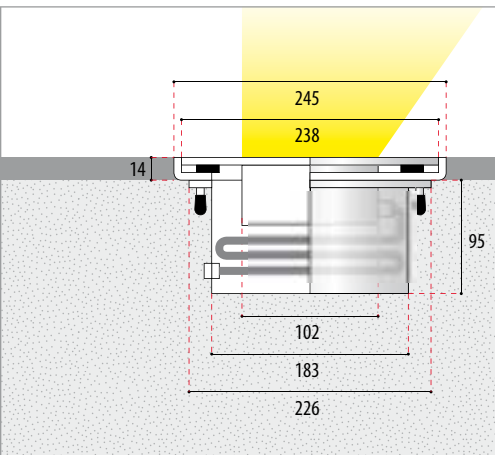
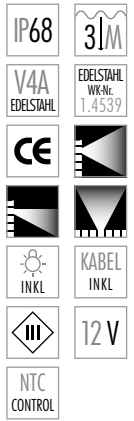
see page 41 and 137+

## REFERENCES

- An installation housing is required for a new installation. Please order separately.
- Must only be operated with a WIBRE power supply or controller

## OPTIONS ON REQUEST

- Monochrome POW-LED available in red, green, blue, amber and warm white
- Variants for installation in stainless steel or plastic pools or as a saltwater version with special flanges



Article number clear glass pane	Article number frosted glass pane	Lamps	Cable, installs	Wattage	Tension	Colour temperature	No.
<b>Only underwater operation</b>							
<b>halogen</b>							
4.0275.00.10	4.0275.01.10	QT12	3 m (2x2,5 mm <sup>2</sup> )	100W (2.200lm)	12V-AC	3.000K	B18
4.0275.00.17	4.0275.01.17	QT16	3 m (2x2,5 mm <sup>2</sup> )	175W (5.100lm)	12V-AC	3.000K	A11
4.0275.00.20	4.0275.01.20	QT16	3 m (2x2,5 mm <sup>2</sup> )	200W (5.800lm)	30V-DC	3.000K	A12
<b>POW-LED 12 V-DC</b>							
4.0275.00.11		POW-LED cold white	3 m (6x1+ 2x0,5 mm <sup>2</sup> )	27 x 3 W (150 lm/LED = total 4050 lm)	700 mA/12 V-DC	6.000K	W62
4.0275.00.12		POW-LED warm white		27 x 3 W (130 lm/LED = total 3510 lm)	700 mA/12 V-DC	3.000K	
4.0275.00.13		POW-LED neutral white		27 x 3 W (140 lm/LED = total 3780 lm)	700 mA/12 V-DC	4.500K	
4.0275.00.26		POW-LED capri blue	3 m (6x1+ 2x0,5 mm <sup>2</sup> )	27 x 3 W (9 x blue, 9 x green, 9 x white)	700 mA/12 V-DC		
4.0275.00.19		POW-LED RGB	3 m (6x1+ 2x0,5 mm <sup>2</sup> )	27 x 3 W	700 mA/12 V-DC		
<b>installation housing</b>							
4.0274.75.00	Built-in pot, marine grade 316L stainless steel with 1.5 m cable protection tube and plastic angled ring						

# Swimmingpool-Light with ABS part

## 4.0271.58



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a moulded plastic component for retrofit installation or flexible use on the edge of the pool.
- QT12 or QT16 light sources
- newest POW-LED with build in at max. Supply Wattage 24 V-DC/12V DC (SELV), optimization of beam angle character
- POW-LED-Platine temperatur control (NTC)
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical (halogen)
- Cable duct in the moulded component, no need to drill through the wall
- Supplied with light source and special underwater cable (10 m) already connected

### APPLICATION

- For retrofit installation in existing pools.

### ACCESSORIES & POWER SUPPLIES

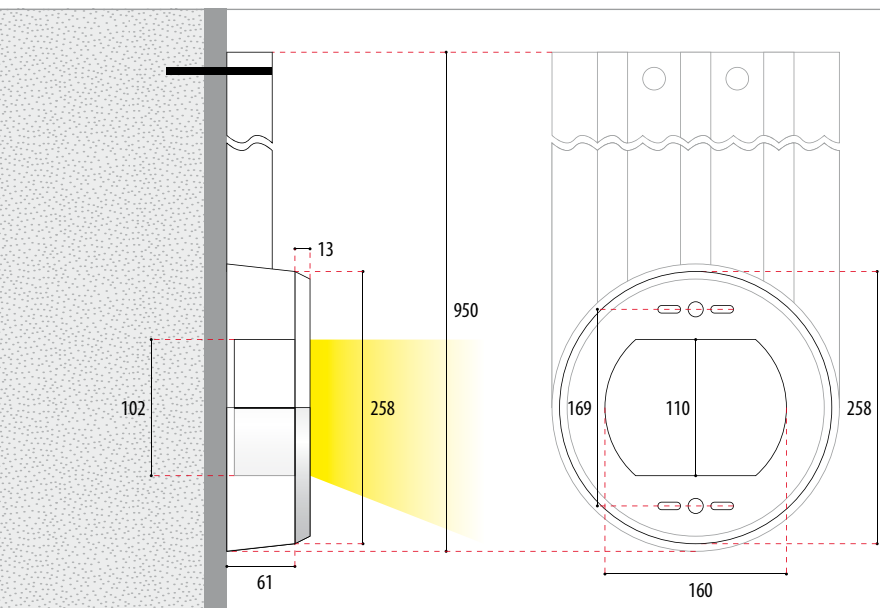
see page 41 and 137+

### REFERENCES

- Must only be operated with a WIBRE power supply or controller

### OPTIONS ON REQUEST

- Monochrome POW-LED available in red, green, blue, amber and warm white



Article number  
clear glass  
pane

Lamps

Wattage

Tension

Colour tempe-  
rature

Light-current



#### Only underwater operation

#### halogen

4.0271.58.10	QT12	100W	12V-AC	3.000K	2.200lm	B18
4.0271.58.17	QT16	175W	12V-AC	3.000K	5.100lm	A11
4.0271.58.20	QT16	200W	30V-DC	3.000K	5.800lm	A12

#### POW-LED 12 V-DC

4.0271.58.11	POW-LED cold white	27 x 3 W (150 lm/LED = total 4050 lm)	700 mA/12 V-DC	6.000K		W62
4.0271.58.12	POW-LED warm white	27 x 3 W (130 lm/LED = total 3510 lm)	700 mA/12 V-DC	3.000K		
4.0271.58.13	POW-LED neutral white	27 x 3 W (140 lm/LED = total 3780 lm)	700 mA/12 V-DC	4.500K		
4.0271.58.26	POW-LED capri blue	27 x 3 W (9 x blue, 9 x green, 9 x white)	700 mA/12 V-DC			
4.0271.58.19	POW-LED RGB	27 x 3 W	700 mA/12 V-DC			



## Swimmingpool-Light with ABS part

4.0271.57



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a moulded plastic component for retrofit installation on the pool wall
- QT12 or QT16 light sources
- newest POW-LED with build in at max. Supply Wattage 24 V-DC/12V DC (SELV), optimization of beam angle character
- POW-LED-Platine temperatur control (NTC)
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical (halogen)
- Supplied with light source and special underwater cable (10 m) already connected

## APPLICATION

- For retrofit installation on the pool wall.

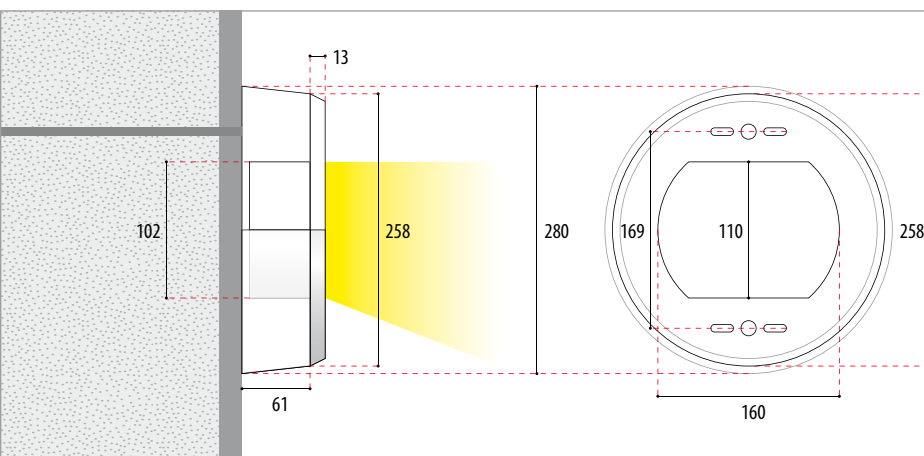
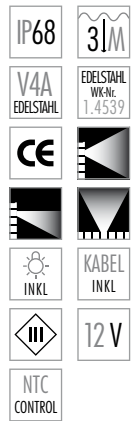
ACCESSORIES & POWER SUPPLIES  
see page 41 and 137+

## REFERENCES

- Must only be operated with a WIBRE power supply or controller

## OPTIONS ON REQUEST

- Monochrome POW-LED available in red, green, blue, amber and warm white



Article number  
clear glass  
pane

Lamps

Wattage

Tension

Colour temperature Light-current



## Only underwater operation

## halogen

Article number	Lamps	Wattage	Tension	Colour temperature	Light-current	Light-current
4.0271.57.10	QT12	100W	12V-AC	3.000K	2.200lm	B18
4.0271.57.17	QT16	175W	12V-AC	3.000K	5.100lm	A11
4.0271.57.20	QT16	200W	30V-DC	3.000K	5.800lm	A12

## POW-LED 12 V-DC

4.0271.57.11	POW-LED cold white <input type="checkbox"/>	27 x 3 W (150 lm/LED = total 4050 lm)	700 mA/12 V-DC	6.000K		W62
4.0271.57.12	POW-LED warm white <input type="checkbox"/>	27 x 3 W (130 lm/LED = total 3510 lm)	700 mA/12 V-DC	3.000K		
4.0271.57.13	POW-LED neutral white <input type="checkbox"/>	27 x 3 W (140 lm/LED = total 3780 lm)	700 mA/12 V-DC	4.500K		
4.0271.57.26	POW-LED capri blue <input type="checkbox"/>	27 x 3 W (9 x blue, 9 x green, 9 x white)	700 mA/12 V-DC			
4.0271.57.19	POW-LED RGB <input type="checkbox"/>	27 x 3 W	700 mA/12 V-DC			



# Swimmingpool-Light

## Power supplies & Accessories – 4.0271.57 · 4.0271.58 · 4.0274 · 4.0275

	5.0670.11.24 Power supply – only for Z7 POW-LED 3 W Module, 700 mA, 12 V-DC, IP65 – see page 142	5.0670.19.24 RGB-Controller – only for Z7 POW-LED 3 W/9 Multichip 3 x 3 W RGB-Module, 700 mA, 12 V-DC, IP65 – see page 142	5.0100.00.00 Transformer – 2 x 50 W, 100 VA, 12 V-AC – see page 143	5.0311.00.00 Transformer – 2 x 100 W, 200 VA, 12 V-AC – see page 143	5.0103.00.00 Transformer – 2 x 175 W, 350 VA, 12 V-AC – see page 143	5.0410.00.01 Transformer – 1 x 200 W, 200 VA, 30 V-DC – see page 143	5.0420.00.01 Transformer – 2 x 200 W, 400 VA, 30 V-DC – see page 143	4.0265.04.00 colour disk – yellow	4.0265.05.00 colour disk – red	4.0265.06.00 colour disk – blue	4.0265.07.00 colour disk – green	4.0271.04.00 colour filter, dichroitic – yellow	4.0271.05.00 colour filter, dichroitic – red	4.0271.06.00 colour filter, dichroitic – blue	4.0271.07.00 colour filter, dichroitic – green	4.0274.00.25 pressure flange – for thin-walled pools or pools with fitted plastic foil – see page 150	4.0274.55.55 gluing flange – for adhesive/foil coating – see page 150	4.0274.55.25 gluing and pressure flange – for adhesive/foil coating with pressure flange – see page 150
Spotlight ↓	Power supplies							Accessories										
4.0271.57.10			●					●	●	●	●	●	●	●	●			
4.0271.57.11	●																	
4.0271.57.12	●																	
4.0271.57.13	●																	
4.0271.57.17				●				●	●	●	●	●	●	●	●			
4.0271.57.19		●																
4.0271.57.20						●		●	●	●	●	●	●	●	●			
4.0271.57.26	●																	
4.0271.58.10			●					●	●	●	●	●	●	●	●			
4.0271.58.11	●																	
4.0271.58.12	●																	
4.0271.58.13	●																	
4.0271.58.17				●				●	●	●	●	●	●	●	●			
4.0271.58.19		●																
4.0271.58.20						●		●	●	●	●	●	●	●	●			
4.0271.58.26	●																	
4.0274.75.00																		
4.0275.00.10			●	●								●	●	●	●		on request	
4.0275.00.11	●																	
4.0275.00.12	●																	
4.0275.00.13	●																	
4.0275.00.17				●	●							●	●	●	●			
4.0275.00.19		●																
4.0275.00.20						●	●					●	●	●	●			
4.0275.00.26	●											●	●	●	●			
4.0275.01.10			●	●								●	●	●	●			
4.0275.01.17				●	●							●	●	●	●			
4.0275.01.20					●		●					●	●	●	●			

## Swimmingpool-Light made V4A-stainless steel 316L

4.0199



## DESCRIPTION

- Spotlight, entirely made of V4A stainless steel 1.4571 EPOL
- Degree of protection IP68 – for water depth up to 5 m
- Round attachment cover, made of V4A stainless steel, height 3 mm EPOL
- With POW-LED 15 x 3 W 700 mA white, 9 x Multichip RGB 3 x 3 W 700 mA and halogen 3 x QR-CB51 ES 50 W/12 V-AC
- Constant-current power source/RGB controller/external transformer
- Rotationally symmetric light distribution with POW LED white and blue 90° and RGB 120°, with halogen 36°.
- Cable gland PG13,5, V4A stainless steel EPOL
- Installation housing made of V4A stainless steel EPOL with 1.5 m cable protection tube for wall and floor installation in concrete pools with tile covering, for welding into stainless steel pools, in pools with fitted foil (pressure flange) and pools with adhesive/foil coatings (adhesive flange)
- Supplied with lamp and 3 m of silicon cable

## APPLICATION

- For illumination and accented lighting in swimming pools, whirlpools, water displays and fountains, recommended pool size (max. approx. LxW 8 x 5 m) or as determined in consultation with us.

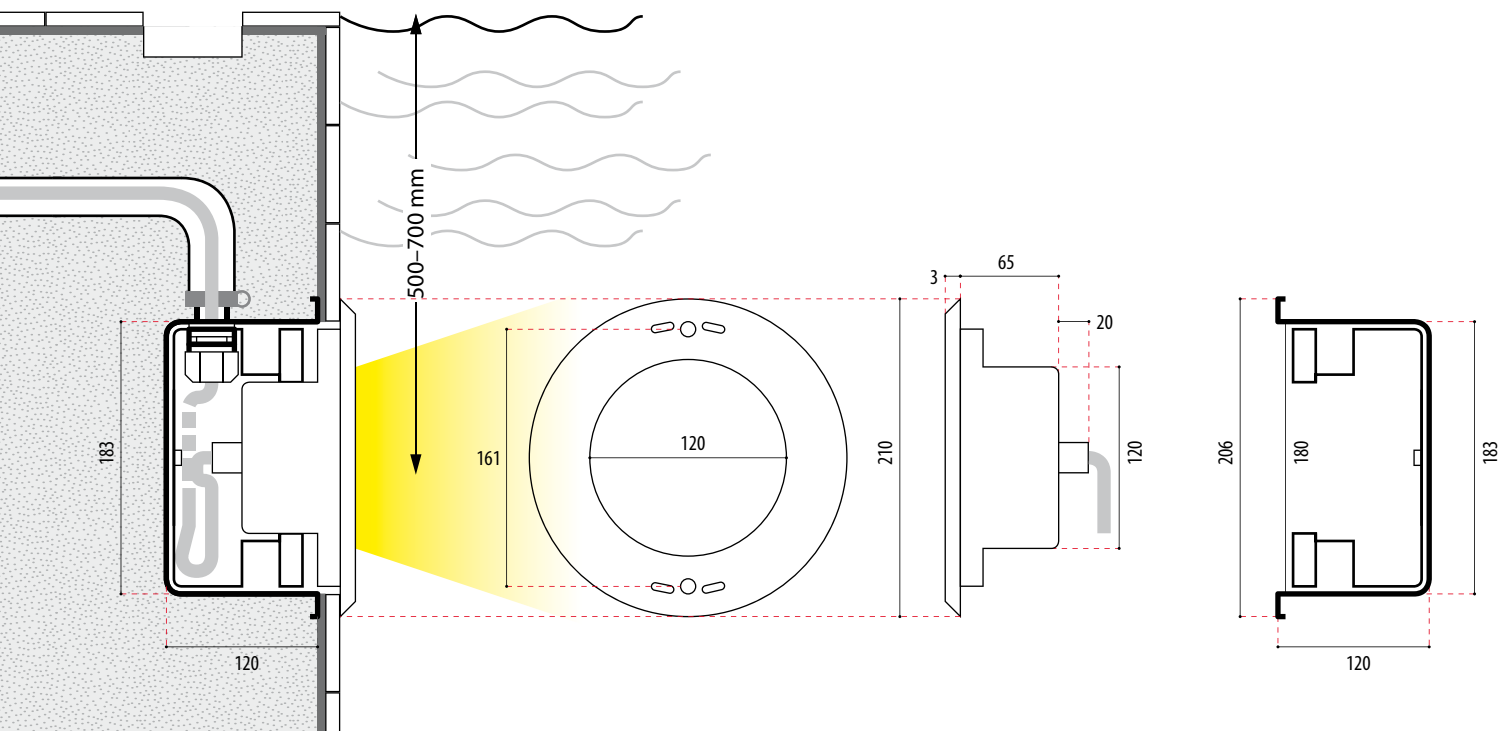
ACCESSORIES & POWER SUPPLIES  
see page 50 and 137+

## REFERENCES

- Use of the most powerful single-chip POW-LED with over 150 lm/LED (TLF) at 700 mA with light colour cold white
- Matching installation housing should be selected, depending on the installation type and situation.
- Stainless steel parts, such as housing and cover, electropolished (EPOL)

## OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30° and medium flood 45° on request
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Halogen OR-CB51 lamps possible in various beam angles – 10°, 24°, 36°, 60° – and various colours – blue, yellow, green, magenta, orange, red



## Swimmingpool-Light made V4A-stainless steel 316L

4.0199



Europabad Karlsruhe, Germany

Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radiation angle	UW-Cable, installs	No. >163
<b>Only underwater operation</b>							
4.0199.00.11	POW-LED cold white <input type="checkbox"/>	6.000K	15 x 3 W (230 lm/LED = total 3450 lm)	700 mA/12 V-DC	90°	2x2,5 mm <sup>2</sup>	W23
4.0199.00.12	POW-LED warm white <input type="checkbox"/>	3.000K	15 x 3 W (190 lm/LED = total 2850 lm)	700 mA/12 V-DC	90°	2x2,5 mm <sup>2</sup>	
4.0199.00.13	POW-LED neutral white <input type="checkbox"/>	4.500K	15 x 3 W (215 lm/LED = total 3225 lm)	700 mA/12 V-DC	90°	2x2,5 mm <sup>2</sup>	
4.0199.00.16	POW-LED royal blue <input checked="" type="checkbox"/>		15 x 3 W (650mW/LED)	700 mA/12 V-DC	90°	2x2,5 mm <sup>2</sup>	
4.0199.00.19	9 Multichip POW-LED RGB (3 x 3 W) <input checked="" type="checkbox"/>		27 x 3 W (total/all on)	700 mA/12 V-DC	120°	6x0,5 + 2x0,5 mm <sup>2</sup>	
4.0199.00.15	3 x QR-CBC51 ES 50 W	3.000K	150W (8.600cd)	12V-AC	36°	2x2,5 mm <sup>2</sup>	C85
<b>installation housing</b>							
4.0199.01.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in concrete pools with tile covering						
4.0199.02.00	made of V4A stainless steel with 1.5m protective cable tube and M20 plastic terminating connection, for installation in thin-walled pools and foil lined pools (pressure flange)						
4.0199.03.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in pools with adhesive/foil coating (adhesive flange ø 320 mm)						
4.0199.04.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for welding into stainless steel pools						

# Swimmingpool-Light



## Swimmingpool-Light with PAR56 lamp

4.0301



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- With 17 mm (4.0301) or 32 mm (4.0311) thick marine grade 316L stainless steel cover on the basis of a PAR56 light source
- (4.0301) for concrete pools in conjunction with built-in pot 4.0300
- (4.0311) for plastic or metal pools with pressure flange in conjunction with built-in pot 4.0312
- Light source can be changed without draining the water
- Supplied with light source and silicon cable (3 m) already connected (2 x 6 qmm)

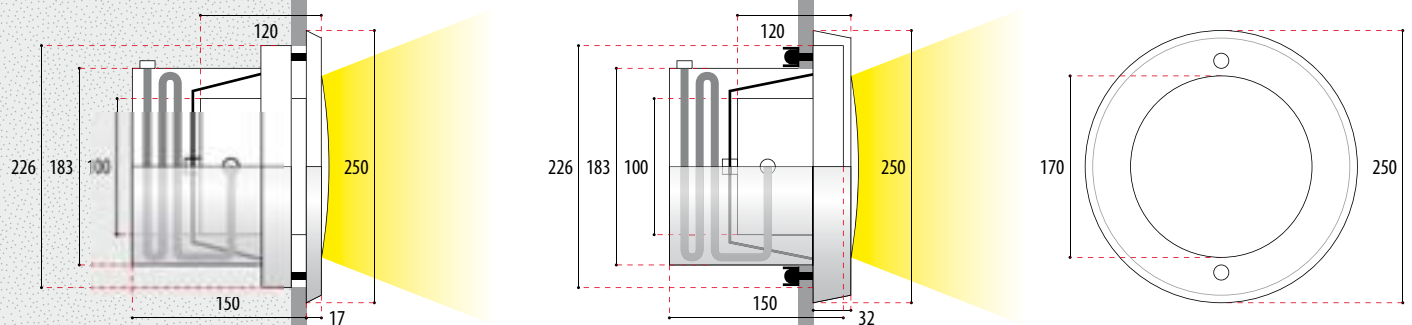
ACCESSORIES & POWER SUPPLIES  
see page 50 and 137+

## REFERENCES

- Please order the installation housing separately

## OPTIONS ON REQUEST

- Coloured PAR56 light sources (300 W/12 V) available in green and blue
- Cable lengths available according to requirements



Article number  
clear glass  
pane

Lamps

Wattage

Tension

Colour temperature

Light-current



## Only underwater operation

## 17 mm frame - for concrete pools

4.0301.00.00	PAR56	300W	12V-AC	3.000K	4.000lm	G41
4.0300.00.00	built in pot of 316L stainless steel for 4.0301, with 1,5 m cable duct					

## 32 mm frame - for plastic or metal pools with pressure flange

4.0311.00.00	PAR56	300W	12V-AC	3.000K	4.000lm	G41
4.0312.00.00	built in pot of 316L stainless steel for 4.0311, with 1,5 m cable duct					

## Swimmingpool-Light

4.1900



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a stainless steel cover
- For HIT-DE metal vapour lamps (fully wired with ballast device), halogen PAR56/12V
- For leisure pools and sports pools with walkaround or surrounding shaft
- Wall installation in all standard pool types
- Light source is changed from the pool walkaround.
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical
- Supplied with light source and silicon cable (3 m) already connected

## APPLICATION

- For leisure pools and sport pools (approx. 25 x 12 m)

## ACCESSORIES &amp; POWER SUPPLIES

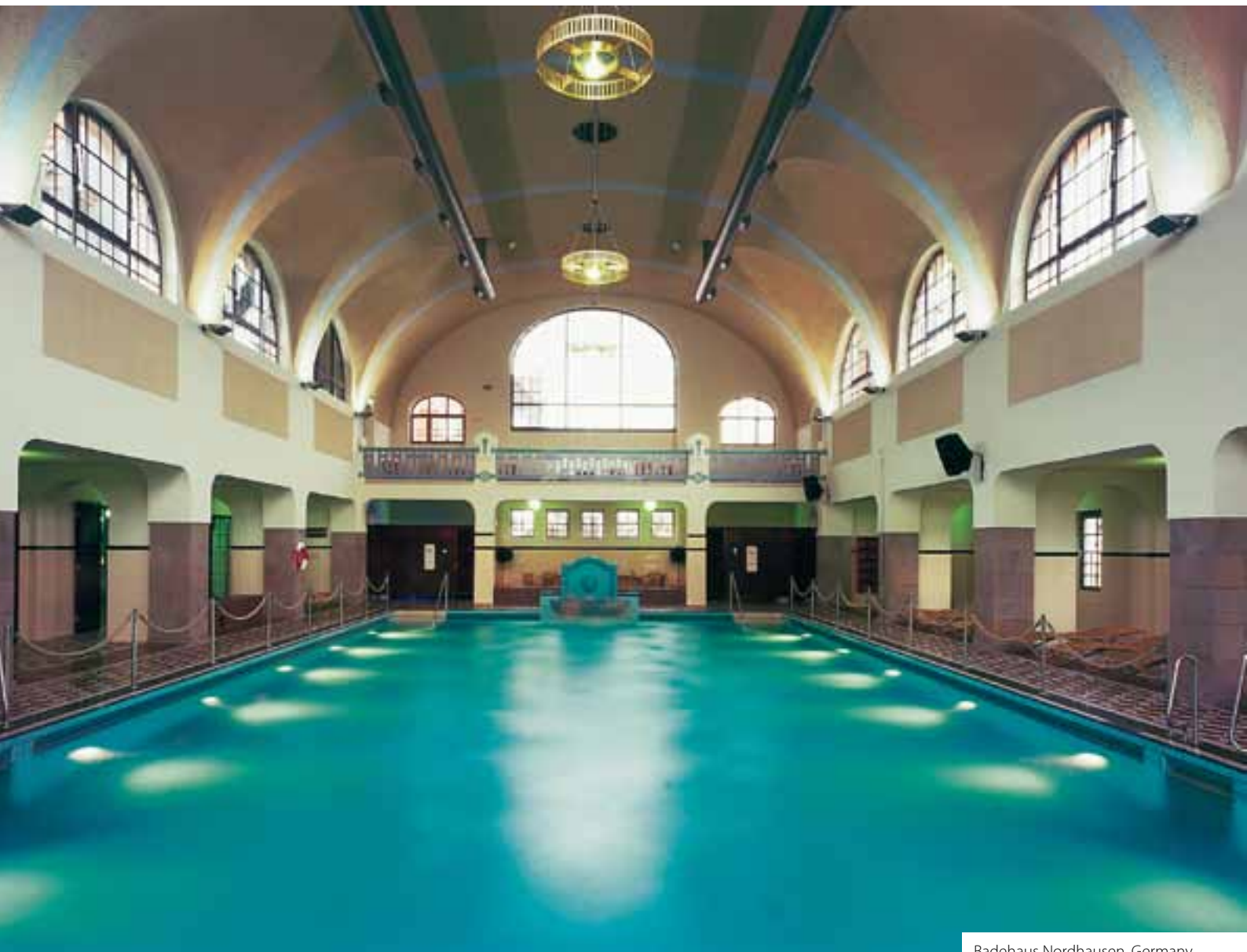
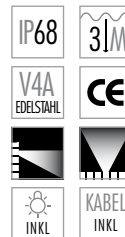
see page 50 and 137+

## REFERENCES

- Customer-specific installations and special designs available on request.

## OPTIONS ON REQUEST

- Coloured HIT light sources available

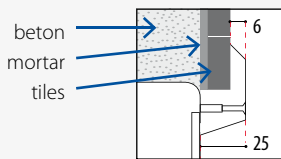
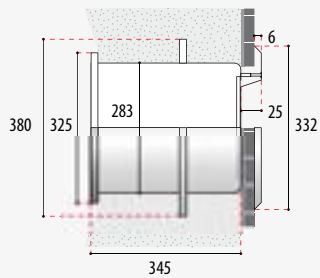




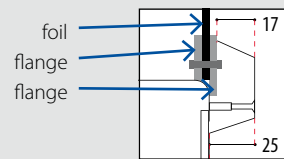
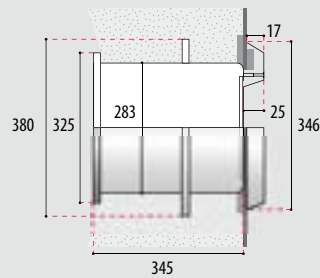
# Swimmingpool-Light

## 4.1900

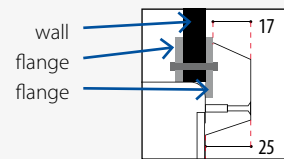
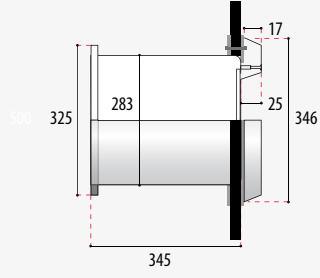
### TILED CONCRETE POOLS (TILES+MORTAR 15-20 MM)



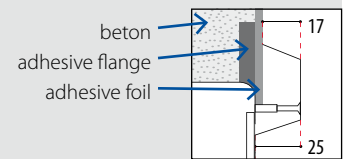
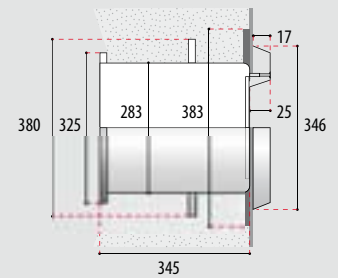
### CONCRETE POOLS WITH FITTED FOIL (PRESSURE FLANGE)



### THIN-WALLED POOLS (PRESSURE FLANGE)

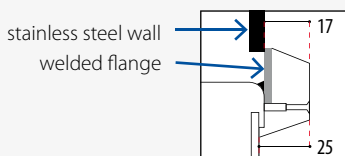
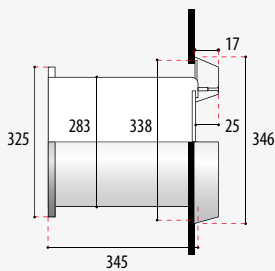


### POOLS WITH ADHESIVE/FOIL COATINGS (ADHESIVE FLANGE)

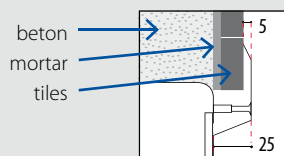
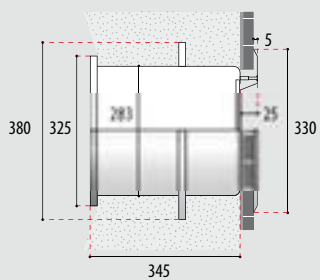


Article number	Article number	Article number	Article number	Lamps	Wattage	Tension	Colour temperature	Light-current	No. >163
<b>Only underwater operation</b>									
4.1900.00.01	4.1900.01.01	4.1900.02.01	4.1900.03.01	POW-LED cold white <input type="checkbox"/>	48 x 1 W	350 mA	6.000K		
4.1900.00.15	4.1900.01.15	4.1900.02.15	4.1900.03.15	HIT-DE	150W	230V	4.200K	12.500lm	J13
4.1900.00.70	4.1900.01.70	4.1900.02.70	4.1900.03.70	HIT-DE	70W	230V	4.200K	5.500lm	J11
4.1900.00.30	4.1900.01.30	4.1900.02.30	4.1900.03.30	PAR56	300W	12V-AC	3.000K	4.000lm	G41

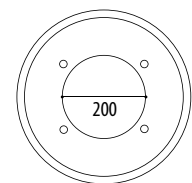
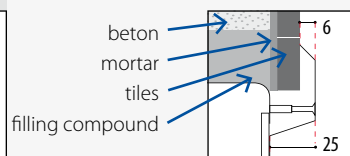
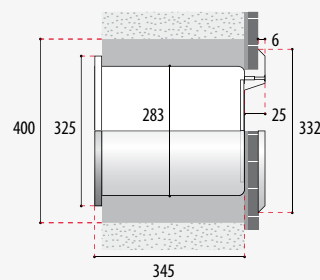
### STAINLESS STEEL POOLS (WELDED FLANGE)



### TILED POOLS WITH MOVABLE FLOORS (TILES+MORTAR 16-20 MM)



### LATER INSTALLATION (TILES+MORTAR 15-20 MM)



Article number	Article number	Article number	Lamps	Wattage	Tension	Colour temperature	Light-current	No. >163
<b>Only underwater operation</b>								
4.1900.04.01	4.1900.50.01	4.1900.60.01	POW-LED cold white <input type="checkbox"/>	48 x 1 W	350 mA	6.000K		
4.1900.04.15	4.1900.50.15	4.1900.60.15	HIT-DE	150W	230V	4.200K	12.500lm	J13
4.1900.04.70	4.1900.50.70	4.1900.60.70	HIT-DE	70W	230V	4.200K	5.500lm	J11
4.1900.04.30	4.1900.50.30	4.1900.60.30	PAR56	300W	12V-AC	3.000K	4.000lm	G41

## Swimmingpool-Light

4.2000

**DESCRIPTION**

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a stainless steel cover
- For HIT metal vapour lamps (E40, fully wired with ballast), halogen PAR64/28 V
- For competition pools and sports pools with walkaround or surrounding shaft
- Wall installation in all standard pool types (see table)
- Light source is changed from the pool walkaround.
- Beam angle: 80° symmetric/horizontal and 45° asymmetric/vertical
- Supplied with light source and silicon cable (3 m) already connected

**APPLICATION**

- For sport pools and competition pools (approx. 50 x 20 m)

**ACCESSORIES & POWER SUPPLIES**  
see page 50 and 137+**REFERENCES**

- Customer-specific installations and special designs available on request.

**OPTIONS ON REQUEST**

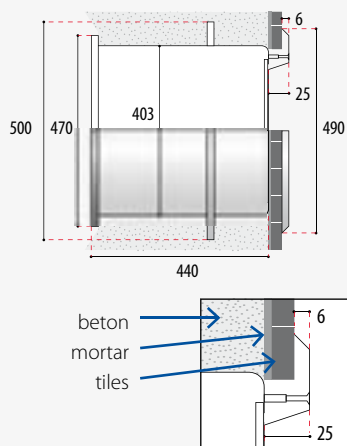
- Coloured HIT light sources available



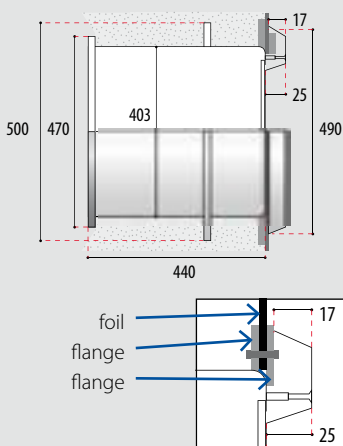
# Swimmingpool-Light

## 4.2000

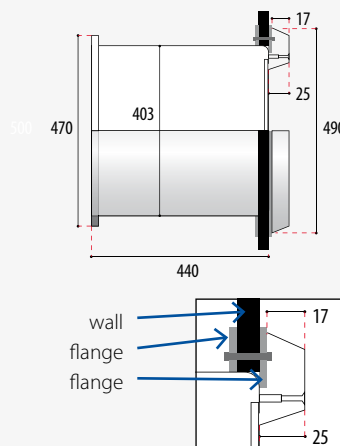
**TILED CONCRETE POOLS (TILES+MORTAR 15-20 MM)**



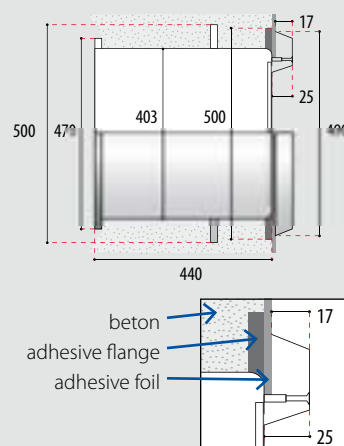
**CONCRETE POOLS WITH FITTED FOIL (PRESSURE FLANGE)**



**THIN-WALLED POOLS (PRESSURE FLANGE)**



**POOLS WITH ADHESIVE/FOIL COATINGS (ADHESIVE FLANGE)**



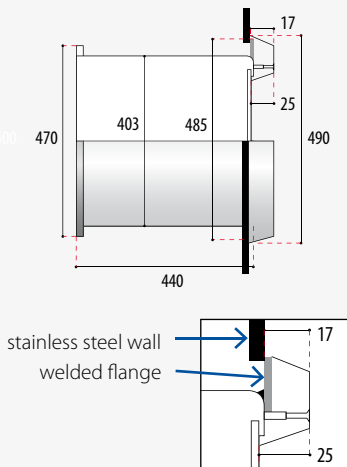
Article number	Article number	Article number	Article number	Lamps	Wattage	Tension	Colour temperature	Light-current
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No. >163

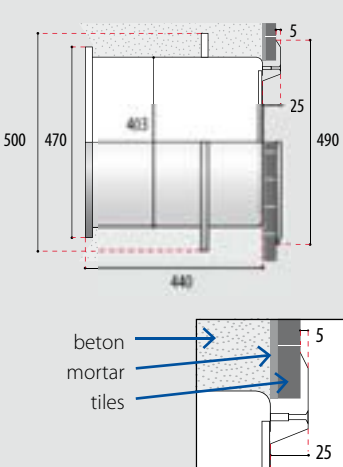
**Only underwater operation**

4.2000.00.25	4.2000.01.25	4.2000.02.25	4.2000.03.25	HIT (E40)	250W	230V	4.200K	21.000lm	M14
4.2000.00.40	4.2000.01.40	4.2000.02.40	4.2000.03.40	HIT (E40)	400W	230V	4.200K	42.000lm	M15

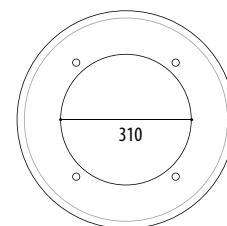
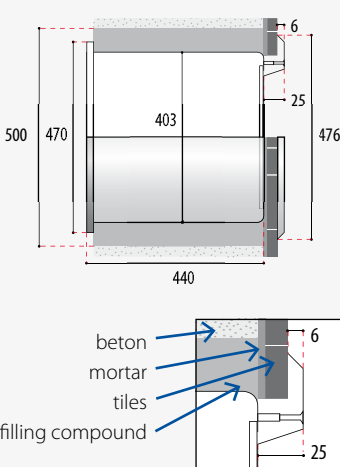
**STAINLESS STEEL POOLS (WELDED FLANGE)**



**TILED POOLS WITH MOVABLE FLOORS (TILES+MORTAR 16-20 MM)**



**LATER INSTALLATION (TILES+MORTAR 15-20 MM)**



Article number	Article number	Article number	Lamps	Wattage	Tension	Colour temperature	Light-current
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No. >163

**Only underwater operation**

4.2000.04.25	4.2000.50.25	4.2000.60.25	HIT (E40)	250W	230V	4.200K	21.000lm	M14
4.2000.04.40	4.2000.50.40	4.2000.60.40	HIT (E40)	400W	230V	4.200K	42.000lm	M15

# Swimmingpool-Light made V4A-stainless steel 316L

## power supplies & accessories – 4.0199 · 4.0301 · 4.0311 · 4.1900 · 4.2000

	5.0635.00.48 Power supply – only for 48 POW-LED 1 W Module, 350 mA, IP65 – see page 142																			
	5.0670.00.15 Power supply – for 1 x POW-LED 15 x 3 W monochrom, 12 V-DC, IP65, dimmable – see page 142																			
	5.0670.19.24 RGB-Controller – only for 27 POW-LED 3 W/9 Multichip 3 x 3 W RGB-Module, 700 mA, 12 V-DC, IP65 – see page 142																			
	5.0101.00.00 Transformer – 2 x 75 W, 150 VA, 12 V-AC – see page 143																			
	5.0103.00.00 Transformer – 2 x 175 W, 350 VA, 12 V-AC – see page 143																			
	5.0107.00.00 Transformer – 2 x 300 W, 600 VA, 12 V-AC – see page 143																			
	9.0199.20.00 adaption plate – made of V4A-stainless steel, ø 300 mm – see page 150																			
	9.1921.00.00 housing shorten – minimal 280 mm																			
	9.1920.00.00 housing extension – per each 380 mm																			
Spotlight ↓	Power supplies																			
4.0199.00.11		●																		
4.0199.00.12		●																		
4.0199.00.13		●																		
4.0199.00.15						●														
4.0199.00.16		●																		
4.0199.00.19				●																
4.0199.01.00																				
4.0199.02.00																				
4.0199.03.00																				
4.0199.04.00																				
4.0300.00.00																				
4.0301.00.00								●		●										
4.0311.00.00								●		●										
4.0312.00.00																				
4.1900.00.01	●										●		●							
4.1900.00.15											●		●							
4.1900.00.30											●		●							
4.1900.00.70											●		●							
4.1900.01.01	●										●		●							
4.1900.01.15											●		●							
4.1900.01.30											●		●							
4.1900.01.70											●		●							
4.1900.02.01	●										●		●							
4.1900.02.15											●		●							
4.1900.02.30											●		●							
4.1900.02.70											●		●							
4.1900.03.01	●										●		●							
4.1900.03.15											●		●							
4.1900.03.30											●		●							
4.1900.03.70											●		●							
4.1900.04.01	●										●		●							
4.1900.04.15											●		●							
4.1900.04.30											●		●							
4.1900.04.70											●		●							
4.1900.50.01	●										●		●							
4.1900.50.15											●		●							
4.1900.50.30											●		●							
4.1900.50.70											●		●							
4.1900.60.01	●										●		●							
4.1900.60.15											●		●							
4.1900.60.30											●		●							
4.1900.60.70											●		●							

	9.2000.00.00 adapter frame – made of white plastic, for adapting the marine grade 316L stainless steel cover																			
	9.2021.00.00 housing shorten – minimal 290 mm																			
	9.2020.00.00 housing extension – per each 400 mm																			
Spotlight ↓	Accessories																			
4.2000.00.25		●																		
4.2000.00.40		●																		
4.2000.01.25		●																		
4.2000.01.40		●																		
4.2000.02.25		●																		
4.2000.02.40		●																		
4.2000.03.25		●																		
4.2000.03.40		●																		
4.2000.04.25		●																		
4.2000.04.40		●																		
4.2000.50.25		●																		
4.2000.50.40		●																		
4.2000.60.25		●																		
4.2000.60.40		●																		

# Underwater-Windows



## Underwater-Windows, marine grade 316L stainless steel

4.2500 · 4.1914 · 4.2112 · 4.2113



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a cover
- Sturdy marine grade 316L stainless steel construction with toughened safety glass
- Sealed via special silicon seals
- Varying glass thickness according to the size of the window
- For swimming pools with walkaround or surrounding shaft
- Wall installation possible in all standard pool types

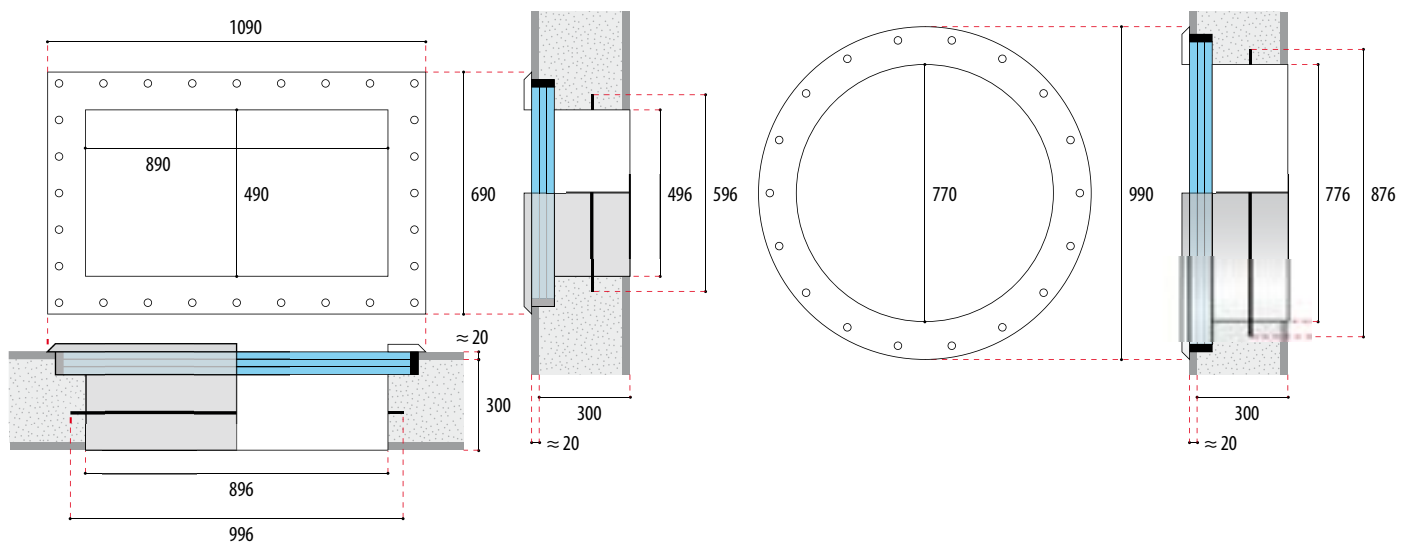
## REFERENCES

- Customer-specific installations and special designs available on request.



## OPTIONS ON REQUEST

- (4.2500, 4.2600) Variants for metal or plastic film pools available on request.



## Article number

## Dimensions

## Weight

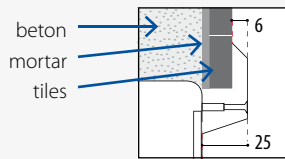
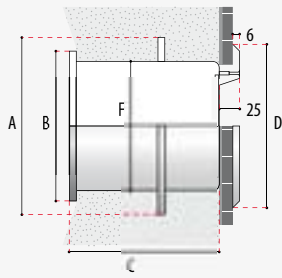
## Tiled concrete pools (tiles+mortar 15–20 mm)

4.2500.00.00	1090 x 690 mm	150 kg
4.2600.00.00	ø 990 mm	120 kg

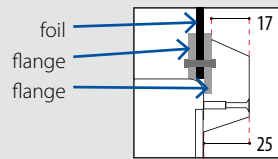
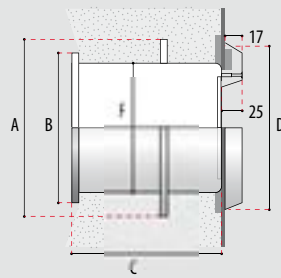
# Underwater-Windows, marine grade 316L stainless steel

## 4.2500 · 4.1914 · 4.2112 · 4.2113

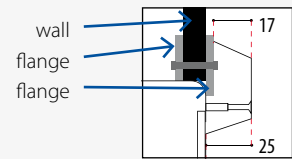
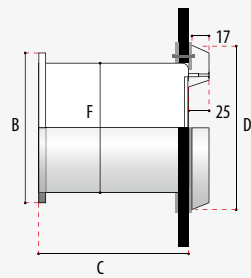
### TILED CONCRETE POOLS (TILES+MORTAR 15-20 MM)



### CONCRETE POOLS WITH FITTED FOIL (PRESSURE FLANGE)



### THIN-WALLED POOLS (PRESSURE FLANGE)



Article number

4.1914.00.00  
4.2112.00.00  
4.2113.00.00

Article number

4.1914.01.00  
4.2112.01.00  
4.2113.01.00

Article number

4.1914.02.00  
4.2112.02.00  
4.2113.02.00

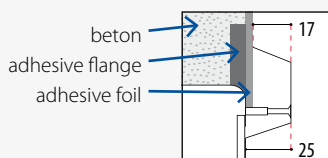
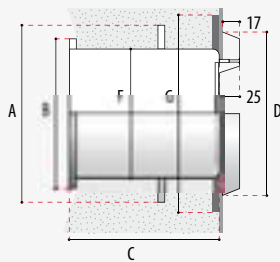
Dimensions

A 380 x B 330 x C 350 x D 350 x F 283  
A 500 x B 465 x C 240 x D 490 x F 403  
A 500 x B 465 x C 440 x D 490 x F 403  
A 380 x B 330 x C 350 x D 350 x F 283  
A 500 x B 465 x C 240 x D 490 x F 403  
A 500 x B 465 x C 440 x D 490 x F 403  
B 330 x C 350 x D 350 x F 283  
B 473 x C 240 x D 490 x F 403  
B 473 x C 440 x D 485 x F 403

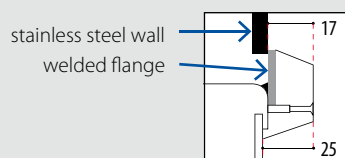
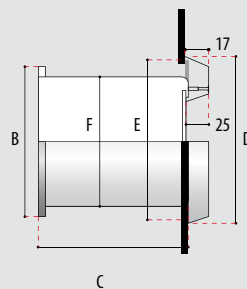
Weight

16 kg  
18,5 kg  
23,5 kg  
16 kg  
18,5 kg  
23,5 kg  
16 kg  
18,5 kg  
23,5 kg

### POOLS WITH ADHESIVE/FOIL COATINGS (ADHESIVE FLANGE)



### STAINLESS STEEL POOLS (WELDED FLANGE)



Article number

4.1914.03.00  
4.2112.03.00  
4.2113.03.00

Article number

4.1914.04.00  
4.2112.04.00  
4.2113.04.00

Dimensions

A 380 x B 330 x C 350 x D 350 x F 283 x G 383  
A 500 x B 465 x C 240 x D 490 x F 403 x G 503  
A 500 x B 465 x C 440 x D 490 x F 403 x G 503  
B 330 x C 350 x D 350 x E 338 x F 283  
B 473 x C 240 x D 490 x E 485 x F 403  
B 473 x C 440 x D 490 x E 485 x F 403

Weight

16 kg  
18,5 kg  
23,5 kg  
16 kg  
18,5 kg  
23,5 kg

Underwater-Windows, marine grade 316L stainless steel

**4.2500 · 4.1914 · 4.2112 · 4.2113**





# Underwater-Loudspeaker



# Underwater-Loudspeaker

4.0014 · 4.0016 · 4.0017



## DESCRIPTION

- Available in various flush-mounted and surface-mounted variants:
- Flush-mounted installation in a marine grade 316L stainless steel housing
- With moulded plastic component for retrofit wall installation
- For mobile use hanging over the edge of the pool
- Cover is made of shatter-proof plastic
- Supplied with a 15 m length of connecting cable

## ACCESSORIES & POWER SUPPLIES

see below and page 137+



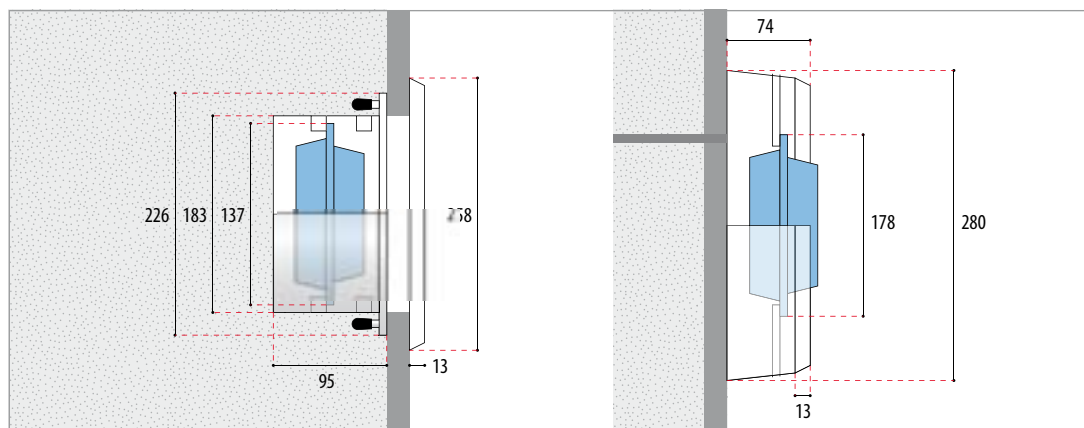
## REFERENCES

- 1 loudspeaker for 25–40 qm<sup>3</sup> water volume (depending on pool construction)

## OPTIONS ON REQUEST

## APPLICATION

- Underwatersound for hotels or sport events



Article number	Frequency Range	Input Power Handling	Impedance	Mounting depth	Amount	Weight
<b>with built-in pot for concrete lined pools</b>						
4.0014.00.07	100 Hz-10 kHz	max 30 W	8 Ω	0,6-1,0 m	1 per 25 qm	4,5 kg
<b>with built-in pot/foil lined</b>						
4.0014.01.07	100 Hz-10 kHz	max 30 W	8 Ω	0,6-1,0 m	1 per 25 qm	4,7 kg
<b>with built-in pot/foil lined</b>						
4.0014.03.07	100 Hz-10 kHz	max 30 W	8 Ω	0,6-1,0 m	1 per 25 qm	4,7 kg
<b>for mounting later on the sides of pools</b>						
4.0016.00.00	100 Hz-10 kHz	max 30 W	8 Ω	0,6-1,0 m	1 per 25 qm	4,7 kg
<b>to hang on the edge of pools</b>						
4.0017.00.00	100 Hz-10 kHz	max 30 W	8 Ω	0,6-1,0 m	1 per 25 qm	5,3 kg
<b>Accessories</b>						
4.0012.00.00	Stainless steel front diaphragm			grade 316L		258 x 13 mm
4.0018.00.00	Underwater-Loudspeaker	seperate				185 x 65 mm
4.0018.00.07	Underwater-Loudspeaker	seperate				137 x 53 mm
4.0013.00.07	built in pot	seperate		grade 316L		226 x 95 x 182 mm
9.0014.02.00	Plastic front diaphragm					245 x 12 mm
9.0014.18.00	ELA output transducer			100 V/8 Ω		185 x 65 mm

# Recessed Underwater-Lights



# Recessed Underwater-Light

## 4.0012



### DESCRIPTION

- spotlight (dia. 35 mm) made entirely of V4A stainless steel 1.4571
- Degree of protection IP68 – for water depth up to 5 m
- round attachment cover (H 3 mm, dia. 50 mm), V4A, or square attachment cover (H 3 mm, 50 x 50 mm)
- POW LED 1 x 3 W 700 mA (TLF 140 Lm/LED) and 1 Multichip RGB 3 x 1 W 350 mA
- Rotationally symmetric light distribution, monochrome 10° and RGB 120°
- Cable pressure sleeve, V4A stainless steel
- for wall and floor installation using installation housing made of V4A stainless steel, with 1.5 m cable protection tube and connection socket, suitable for concrete pools with tile covering (max. 25 mm tile/mortar thickness), stainless steel pools (welded flange), pools with adhesive/foil coatings (adhesive flange) and concrete installation in the floor area (without sheathing flange)
- supplied with lamp and 3m of silicon cable

### APPLICATION

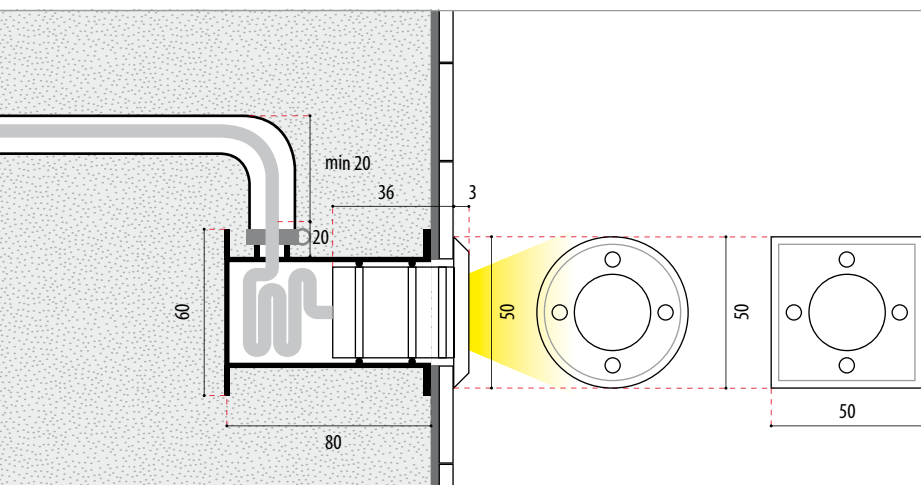
- For wall and floor mounting for accentuation in smaller swimming pools and whirlpools, water displays and fountains.

### ACCESSORIES & POWER SUPPLIES

see page 64 and 137+

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30° and medium flood 45° on request
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Homogeneous diffuse light distribution for accentuation on request.
- Operation possible above water after consultation.



# Recessed Underwater-Light

## 4.0012



Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Radiation angle	No. >163
<b>Versions: Only underwater operation</b>							
4.0012.20.11	4.0012.40.11	POW-LED cold white <input type="checkbox"/>	6.000K	1 x 3 W (150 lm/LED)	700 mA	10°	W31
4.0012.20.12	4.0012.40.12	POW-LED warm white <input type="checkbox"/>	3.000K	1 x 3 W (130 lm/LED)	700 mA	10°	
4.0012.20.13	4.0012.40.13	POW-LED neutral white <input type="checkbox"/>	4.500K	1 x 3 W (140 lm/LED)	700 mA	10°	
4.0012.20.16	4.0012.40.16	POW-LED blue <input checked="" type="checkbox"/>		1 x 3 W (610 mW/LED)	700 mA	10°	
4.0012.20.19	4.0012.40.19	1 Multichip POW-LED RGB (3 x 1 W) <input checked="" type="checkbox"/>		3 x 1 W (total/all on)	350 mA	120°	
<b>installation housing</b>							
4.0012.01.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in concrete pools with tile covering						
4.0012.03.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in pools with adhesive/foil coating (adhesive flange) AD 150 mm						
4.0012.04.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for welding into stainless steel pools (welded flange)						
4.0012.10.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in the floor area (without sheathing flange) with a housing installation height of max. 80 mm						

# Recessed Underwater-Light

4.0171



### DESCRIPTION

- Spotlight, entirely made of V4A stainless steel 1.4571 EPOL
- Protection class IP68 – Water depth 5 m
- Round attachment cover, made of V4A stainless steel, height 3 mm
- with POW-LED 3 x 3W 700 mA cold white (6000K), neutral white (4500K), warm white (3000K), blue; 3 Multichip POW-LED 3 x 3W RGB 700 mA, low voltage halogen QR-CB51 ES 20W/35W/50W/12 V-AC and POW-LED 6 x 3 W 700mA cold white (6000K)
- Rotationally symmetric light distribution with POW LED white 10° and 30° and RGB 10° and 30° and for low-voltage halogen 36°
- Cable gland M16x1,5
- Supplied with lamp and 3 m of underwater cable
- Constant-current power source/RGB controller/external transformer
- Please order housing separately.

### APPLICATION

- For lighting and accentuating, such as smaller swimming pools, jacuzzis, fountains, water bodies, installed in floor or wall.

### ACCESSORIES & POWER SUPPLIES

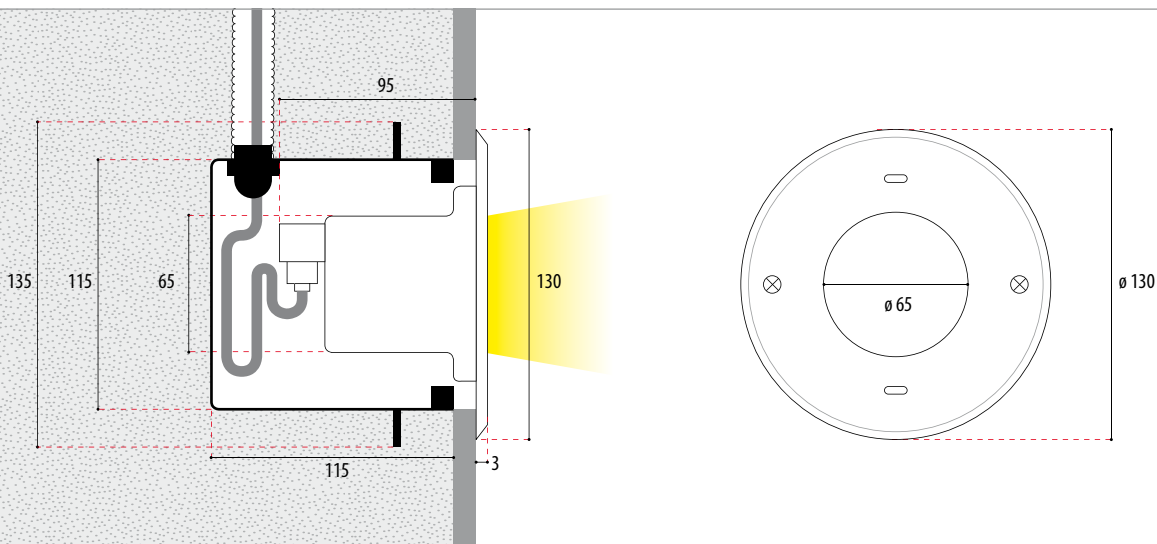
see page 64 and 137+

### REFERENCES

- POW-LED 3x3 W and halogen unit rotatable and +/-15° adjustable
- Use of the most powerful single-chip POW-LED with over 230lm/LED (TLF) at 700 mA with light colour cold white.

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30°, medium flood 45°, flood 90° and elliptical 15x40°
- POW-LED 6 x 3 W cold white, neutral white and warm white
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Halogen OR-CB51 lamps possible in various beam angles – 10°, 24°, 36°, 60° – and various colours – blue, yellow, green, magenta, orange, red



# Recessed Underwater-Light

## 4.0171



Angsana Laguna, Phuket, Thailand



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radation angle	No. >163
<b>Versions: Only underwater operation</b>						
<b>POW-LED, Radation Angle 10°(spot)</b>						
4.0171.20.01	POW-LED cold white <input type="checkbox"/>	6.000 K	3 x 3 W (230 lm/LED = total 690 lm)	700 mA	10° spot	W61
4.0171.20.02	POW-LED warm white <input type="checkbox"/>	3.000 K	3 x 3 W (190 lm/LED = total 570 lm)	700 mA	10° spot	
4.0171.20.03	POW-LED neutral white <input type="checkbox"/>	4.500 K	3 x 3 W (215 lm/LED = total 645 lm)	700 mA	10° spot	
4.0171.20.06	POW-LED blue <input type="checkbox"/>		3 x 3 W (630mW/LED)	700 mA	10° spot	
4.0171.20.09	3 Multichip POW-LED RGB (3 x 3 W) <input type="checkbox"/>		9 x 3 W (total/all on)	700 mA	10° spot	
4.0171.20.08	POW-LED cold white <input type="checkbox"/>	6.000 K	6 x 3 W (230 lm/LED = total 1380 lm)	700 mA	15° spot	W11
<b>POW-LED, Radation Angle 30°/40° (medium)</b>						
4.0171.20.11	POW-LED cold white <input type="checkbox"/>	6.000 K	3 x 3 W (230 lm/LED = total 690 lm)	700 mA	30° medium	W33
4.0171.20.12	POW-LED warm white <input type="checkbox"/>	3.000 K	3 x 3 W (190 lm/LED= total 570 lm)	700 mA	30° medium	
4.0171.20.13	POW-LED neutral white <input type="checkbox"/>	4.500 K	3 x 3 W (215 lm/LED= total 645 lm)	700 mA	30° medium	
4.0171.20.16	POW-LED blue <input type="checkbox"/>		3 x 3 W (630mW/LED)	700 mA	30° medium	
4.0171.20.19	3 Multichip POW-LED RGB (3 x 3 W) <input type="checkbox"/>		9 x 3 W (total/all on)	700 mA	30° medium	
4.0171.20.18	POW-LED cold white <input type="checkbox"/>	6.000 K	6 x 3 W (230 lm/LED = total 1380 lm)	700 mA	40° medium	W12
<b>halogen</b>						
4.0171.20.20	QR-CBC51 (IRC)	3.000K	20W	12V-AC	36°	C63
4.0171.20.35	QR-CBC51 (IRC)	3.000K	35W	12V-AC	36°	C73
4.0171.20.50	QR-CBC51 (IRC)	3.000K	50W	12V-AC	36°	C83
<b>installation housing</b>						
4.0171.01.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in concrete pools with tile covering					
4.0171.02.00	made of V4A stainless steel with 1.5m protective cable tube and M20 plastic terminating connection, for installation in thin-walled pools and foil lined pools (pressure flange ø 137 mm)					
4.0171.03.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for installation in pools with adhesive/foil coating (adhesive flange ø 215 mm)					
4.0171.04.00	made of V4A stainless steel with 1.5 m protective cable tube and M20 plastic terminating connection, for welding into stainless steel pools					

# Recessed Underwater-Light for ready-made pools

## 4.0080



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel
- With POW-LED or QR-CB51 light source
- With screw-type flange for pre-fabricated pools or containers
- Cable gland PG11, nickel-plated brass
- Supplied with light source and silicon cable (3 m) already connected

### APPLICATION

- For whirlpools and show pools

### ACCESSORIES & POWER SUPPLIES

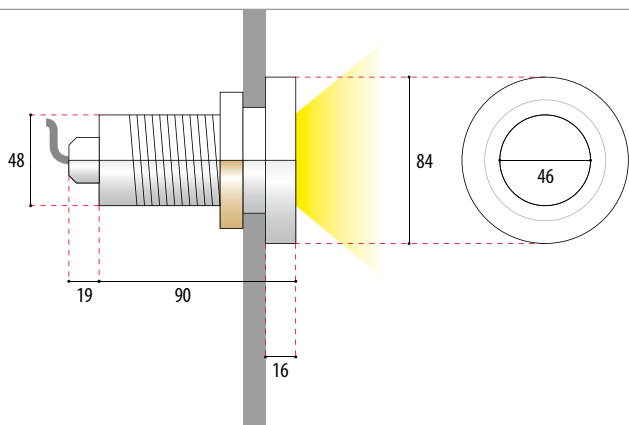
see page 64 and 137+

### REFERENCES

- POW-LED, series-connected
- Reduced-wattage version (20 W) or LED-version suitable for use in wet rooms or showers. (according to prior agreement)

### OPTIONS ON REQUEST

- Radation Angle: POW-LED: 10°, 30°, 45°
- Radation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°

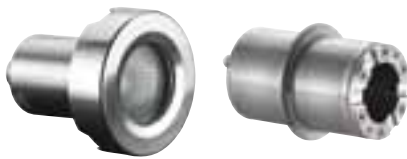


Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radation angle	No. >163
<b>Versions: Only underwater operation</b>							
<b>POW-LED</b>							
4.0080.00.11	POW-LED cold white <input type="checkbox"/>	6.000K	3 x 3 W (150 lm/LED = total 450 lm)	700 mA		30°	W33
4.0080.00.12	POW-LED warm white <input type="checkbox"/>	3.000K	3 x 3 W (130 lm/LED = total 390 lm)	700 mA		30°	
4.0080.00.13	POW-LED neutral white <input type="checkbox"/>	4.500K	3 x 3 W (140 lm/LED = total 420 lm)	700 mA		30°	
<b>halogen</b>							
4.0080.00.35	QR-CBC51	3.000K	35W	12V-AC	GU5,3	36°	C33
4.0080.00.50	QR-CBC51	3.000K	50W	12V-AC	GU5,3	36°	C43
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>							
<b>POW-LED</b>							
4.0080.00.14	POW-LED yellow <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0080.00.15	POW-LED red <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0080.00.16	POW-LED blue <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0080.00.17	POW-LED green <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0080.00.19	POW-LED RGB <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
<b>halogen</b>							
4.0080.00.20	QR-CBC51	3.000K	20W	12V-AC	GU5,3	36°	C22



## Recessed Underwater-Light for concrete wall lined pools

4.0083



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel
- With POW-LED or QR-CB51 light source
- For installation in concrete in conjunction with an installation housing (4.0084, not included)
- Cable gland PG11, marine grade 316L stainless steel
- Supplied with light source and silicon cable (3 m) already connected

## APPLICATION

- For whirlpools and show pools

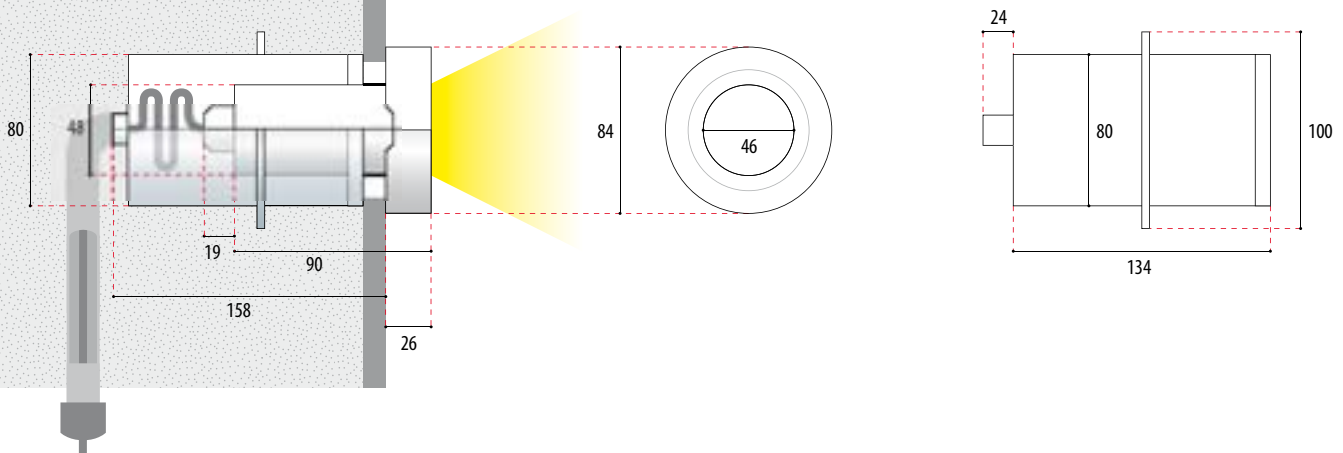
ACCESSORIES & POWER SUPPLIES  
see page 64 and 137+

## REFERENCES

- POW-LED, series-connected
- Reduced-wattage version (20 W) or LED-version suitable for use in wet rooms or showers. (according to prior agreement)
- Please order the installation housing (4.0084) separately

## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- Radiation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radiation angle	No. >163
<b>Versions: Only underwater operation</b>							
<b>POW-LED</b>							
4.0083.00.11	POW-LED cold white <input type="checkbox"/>	6.000K	3 x 3 W (150 lm/LED = total 450 lm)	700 mA		30°	W33
4.0083.00.12	POW-LED warm white <input type="checkbox"/>	3.000K	3 x 3 W (130 lm/LED = total 390 lm)	700 mA		30°	
4.0083.00.13	POW-LED neutral white <input type="checkbox"/>	4.500K	3 x 3 W (140 lm/LED = total 420 lm)	700 mA		30°	
4.0083.00.39	POW-LED RGB <input type="checkbox"/>		3 x 3 W	700 mA		30°	
<b>halogen</b>							
4.0083.00.35	QR-CBC51	3.000K	35W	12V-AC	GU5,3	36°	C33
4.0083.00.50	QR-CBC51	3.000K	50W	12V-AC	GU5,3	36°	C43
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>							
<b>POW-LED</b>							
4.0083.00.14	POW-LED yellow <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0083.00.15	POW-LED red <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0083.00.16	POW-LED blue <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0083.00.17	POW-LED green <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0083.00.19	POW-LED RGB <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
<b>halogen</b>							
4.0083.00.20	QR-CBC51	3.000K	20W	12V-AC	GU5,3	36°	C22
<b>installation housing</b>							
4.0084.00.00	Installation housing out of 316L stainless steel with 1.5m cable protection tube and terminating cable gland (M20 plastic)						

# Recessed Underwater-Light

## power supplies & Accessories – 4.0012 · 4.0080 · 4.0083 · 4.0171

Spotlight ↓	Power supplies	Accessories
	<p><b>5.0635.00.03 Power supply</b> – for max. 3 POW-LED 1 W, 350 mA, IP20 – see page 138</p> <p><b>5.0635.00.10 Power supply</b> – for max. 6 POW-LED 1 W, 350 mA, IP20 – see page 138</p> <p><b>5.0670.00.06 Power supply</b> – only for 6 POW-LED 3 W Modul, 1400 mA, IP65 – see page 142</p> <p><b>5.0670.00.10 Power supply</b> – for max. 3 POW-LED 3 W, 700 mA, IP20 – see page 138</p> <p><b>5.0670.00.20 Power supply</b> – for max. 6 POW-LED 3 W, 700 mA, IP20 – see page 138</p> <p><b>5.0635.09.16 RGB-Controller</b> – for max. 12 POW-LED 1 W RGB, 350 mA, IP65 – see page 140</p> <p><b>5.0635.09.24 RGB-Controller</b> – for max. 24 POW-LED 1 W RGB, 350 mA, IP65 – see page 140</p> <p><b>5.0670.09.18 RGB-Controller</b> – for max. 18 POW-LED 3 W RGB, 700 mA, IP65 – see page 140</p> <p><b>5.0098.00.00 Transformer</b> – 1 x 50 W, 50 VA, 12 V-AC – see page 143</p> <p><b>5.0101.00.00 Transformer</b> – 2 x 75 W, 150 VA, 12 V-AC – see page 143</p>	<p><b>4.0171.00.20 glass disc, frosted</b> – for softer light distribution (light loss approx. -15%)</p> <p><b>4.0171.00.50 anti-glare louver</b></p> <p><b>4.0081.01.00 glass disc, frosted</b> – for softer light distribution (light loss approx. -15%)</p> <p><b>4.0081.04.00 colour disk</b> – yellow</p> <p><b>4.0081.05.00 colour disk</b> – red</p> <p><b>4.0081.06.00 colour disk</b> – blue</p> <p><b>4.0081.07.00 colour disk</b> – green</p> <p><b>4.0081.14.00 coloured lamps</b> – yellow</p> <p><b>4.0081.15.00 coloured lamps</b> – red</p> <p><b>4.0081.16.00 coloured lamps</b> – blue</p> <p><b>4.0081.17.00 coloured lamps</b> – green</p> <p><b>4.0084.55.55 gluing flange</b> – ø 150 mm</p>
4.0012.01.00		
4.0012.03.00		
4.0012.04.00		
4.0012.10.00		
4.0012.20.11		
4.0012.20.12		
4.0012.20.13		
4.0012.20.16		
4.0012.20.19		
4.0012.40.11		
4.0012.40.12		
4.0012.40.13		
4.0012.40.16		
4.0012.40.19		
4.0080.00.11		
4.0080.00.12		
4.0080.00.13		
4.0080.00.14	●	
4.0080.00.15	●	
4.0080.00.16	●	
4.0080.00.17	●	
4.0080.00.19		
4.0080.00.20		
4.0080.00.35		
4.0080.00.50		
4.0083.00.11		
4.0083.00.12		
4.0083.00.13		
4.0083.00.14	●	
4.0083.00.15	●	
4.0083.00.16	●	
4.0083.00.17	●	
4.0083.00.19		
4.0083.00.20		
4.0083.00.35		
4.0083.00.39		
4.0083.00.50		
4.0084.00.00		
4.0171.01.00		
4.0171.02.00		
4.0171.03.00		
4.0171.04.00		
4.0171.20.01		
4.0171.20.02		
4.0171.20.03		
4.0171.20.06		
4.0171.20.08	●	
4.0171.20.09		
4.0171.20.11		
4.0171.20.12		
4.0171.20.13		
4.0171.20.16		
4.0171.20.18	●	
4.0171.20.19		
4.0171.20.20		
4.0171.20.35		
4.0171.20.50		

# Recessed Underwater-Light



Deutsche Oper, Berlin, Germany



Navarino Hotel, Pylos Messinia, Greece

# Recessed Underwater-Light with cover

**4.0093**



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel
- With POW-LED or QR-CB51 light source
- For flush-mounted installation or with a round or square cover
- For installation in concrete walls and floors in conjunction with an installation housing (4.0094, not included)
- Cable gland PG11, marine grade 316L stainless steel
- Supplied with light source and silicon cable (3 m) already connected

### APPLICATION

- For whirlpools and show pools

### ACCESSORIES & POWER SUPPLIES

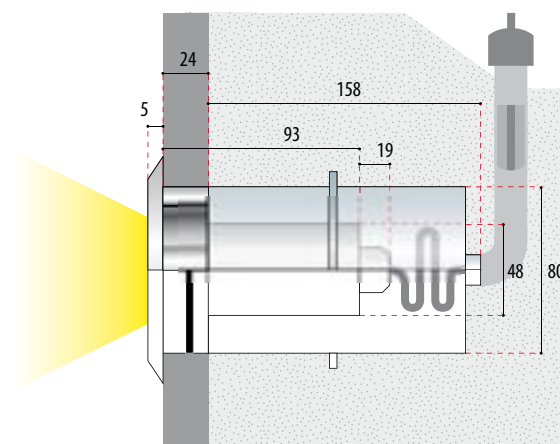
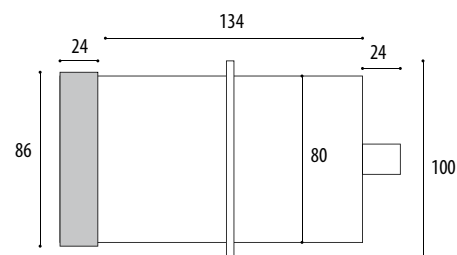
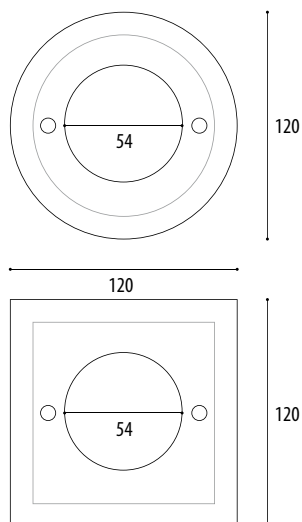
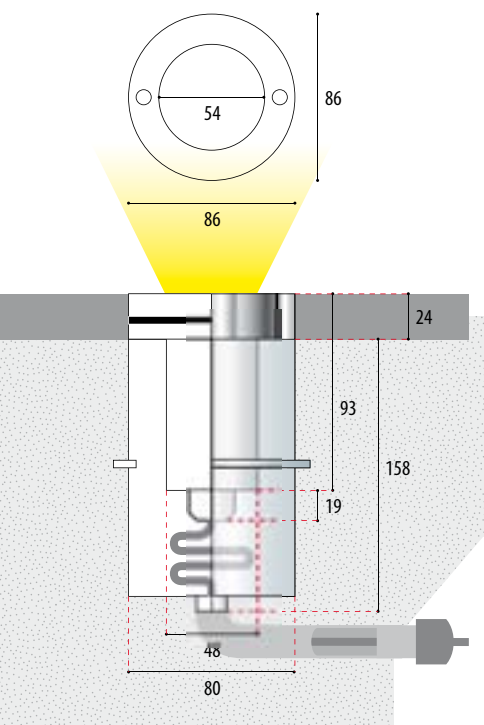
see page 72 and 137+

### REFERENCES

- POW-LED, series-connected
- Reduced-wattage version (20 W) or LED-version suitable for use in wet rooms or showers. (according to prior agreement)
- Please order the installation housing (4.0094) separately

### OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- Radiation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°



## Recessed Underwater-Light with cover

4.0093



Hotel Esperanto, Fulda, Germany

Article number flush cover	Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radiation angle	No. >163
<b>Versions: Only underwater operation</b>									
POW-LED									
4.0093.10.11	4.0093.20.11	4.0093.40.11	POW-LED cold white <input type="checkbox"/>	6.000K	3 x 3 W (150 lm/LED = total 450 lm)	700 mA		30°	W33
4.0093.10.12	4.0093.20.12	4.0093.40.12	POW-LED warm white <input type="checkbox"/>	3.000K	3 x 3 W (130 lm/LED = total 390 lm)	700 mA		30°	
4.0093.10.13	4.0093.20.13	4.0093.40.13	POW-LED neutral white <input type="checkbox"/>	4.500K	3 x 3 W (140 lm/LED = total 420 lm)	700 mA		30°	
4.0093.10.39	4.0093.20.39	4.0093.40.39	POW-LED RGB <input type="checkbox"/>		3 x 3 W	700 mA		30°	
halogen									
4.0093.10.20	4.0093.20.20	4.0093.40.20	QR-CBC51 (IRC)	3.000K	20W	12V-AC	GU5,3	36°	C63
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>									
POW-LED									
4.0093.10.14	4.0093.20.14	4.0093.40.14	POW-LED yellow <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0093.10.15	4.0093.20.15	4.0093.40.15	POW-LED red <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0093.10.16	4.0093.20.16	4.0093.40.16	POW-LED blue <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0093.10.17	4.0093.20.17	4.0093.40.17	POW-LED green <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
4.0093.10.19	4.0093.20.19	4.0093.40.19	POW-LED RGB <input type="checkbox"/>		3 x 1 W	350 mA		30° medium	
halogen									
4.0093.10.20	4.0093.20.20	4.0093.40.20	QR-CBC51 (IRC)	3.000K	20W	12V-AC	GU5,3	36°	C63
installation housing									
4.0094.00.00	Installation housing out of 316L stainless steel with 1.5m cable protection tube and terminating cable gland (M20 plastic)								

# Recessed Underwater-Light

## 4.0088



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Compact spotlight made of marine grade 316L stainless steel
- With POW-LED or QR-CB35 light source
- With screw-type flange for pre-fabricated pools or containers
- Cable gland PG9, marine grade 316L stainless steel
- Supplied with light source and silicon cable (2 m) already connected

### APPLICATION

- In whirlpools or small pools

### ACCESSORIES & POWER SUPPLIES

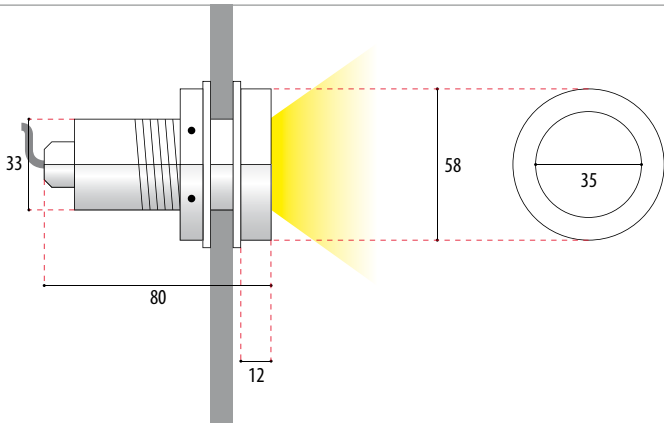
see page 72 and 137+

### REFERENCES

- POW-LED, series-connected

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30° and medium flood 45° on request
- POW-LED RGB available



Article number Frame V4A	Article number Frame V4A white	Lamps	Light colour	Wattage	Tension	Socket	Radation angle	No. >163
<b>Versions: Only underwater operation</b>								
halogen								
4.0088.00.35	4.0088.02.35	QR-CBC35	3.000K	35W	12V-AC	GU4	36°	C15
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>								
POW-LED								
4.0088.00.01	4.0088.02.01	POW-LED cold white <span style="color:blue">■</span>	6.000K	1 x 1 W (140 lm/LED)	350 mA		10° spot	V12
4.0088.00.02	4.0088.02.02	POW-LED warm white <span style="color:orange">■</span>	3.000K	1 x 1 W (100 lm/LED)	350 mA		10° spot	
4.0088.00.03	4.0088.02.03	POW-LED neutral white <span style="color:gray">■</span>	4.500K	1 x 1 W (110 lm/LED)	350 mA		10° spot	
4.0088.00.04	4.0088.02.04	POW-LED yellow <span style="color:yellow">■</span>		1 x 1 W	350 mA		10° spot	
4.0088.00.05	4.0088.02.05	POW-LED red <span style="color:red">■</span>		1 x 1 W	350 mA		10° spot	
4.0088.00.06	4.0088.02.06	POW-LED blue <span style="color:blue">■</span>		1 x 1 W	350 mA		10° spot	
4.0088.00.07	4.0088.02.07	POW-LED green <span style="color:green">■</span>		1 x 1 W	350 mA		10° spot	
halogen								
4.0088.00.20	4.0088.02.20	QR-CBC35	3.000K	20W	12V-AC	GU4	36°	C13

# Recessed Underwater-Light

## 4.0087

### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Compact spotlight made of marine grade 316L stainless steel
- With POW-LED or QR-CB35 light source
- For concrete pools, walls or steps with an installation housing (4.0089, not included)
- Cable gland PG9, marine grade 316L stainless steel
- Supplied with light source and silicon cable (2 m) already connected

### APPLICATION

- In whirlpools or small pools

### ACCESSORIES & POWER SUPPLIES

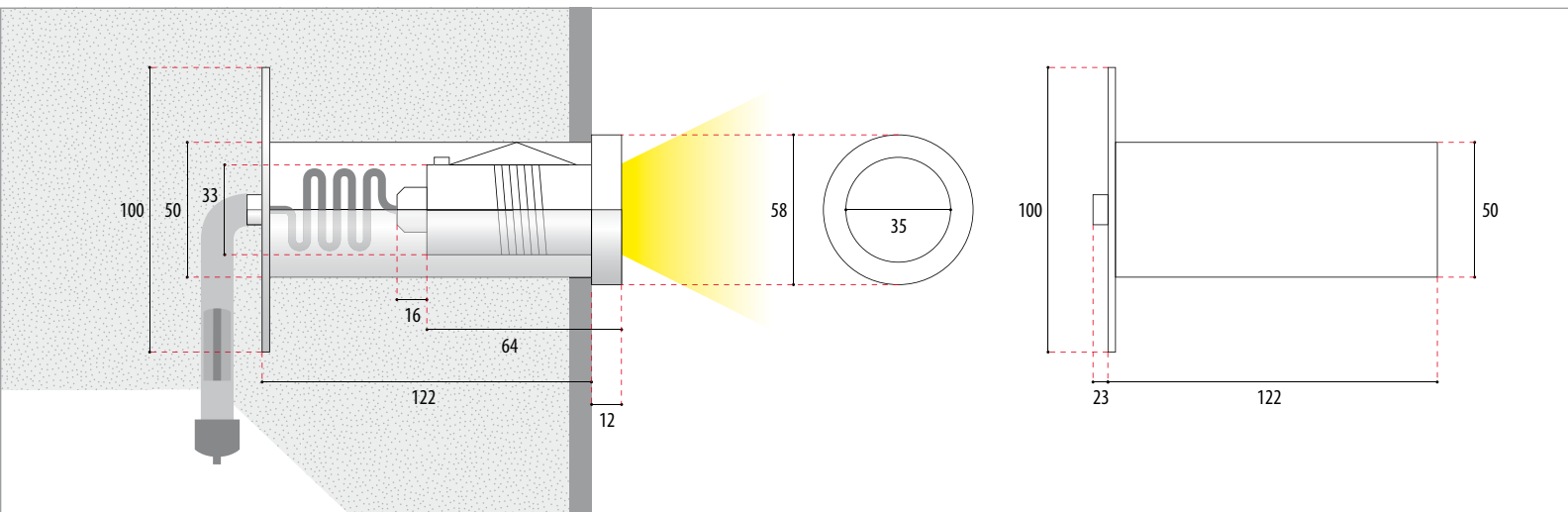
see page 72 and 137+

### REFERENCES

- POW-LED, series-connected
- Please order the installation housing (4.0089) separately

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30° and medium flood 45° on request
- POW-LED RGB available



Article number Frame V4A	Article number Frame V4A white	Lamps	Light colour	Wattage	Tension	Socket	Radiation angle	No. >163	
<b>Versions: Only underwater operation</b>									
<b>halogen</b>									
4.0087.00.35	4.0087.02.35	QR-CBC35	3.000K	35W	12V-AC	GU4	36°	C15	
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>									
<b>POW-LED</b>									
4.0087.00.01	4.0087.02.01	POW-LED cold white <input type="checkbox"/>	6.000K	1 x 1 W (140 lm/LED)	350 mA		10° spot	V12	
4.0087.00.02	4.0087.02.02	POW-LED warm white <input type="checkbox"/>	3.000K	1 x 1 W (100 lm/LED)	350 mA		10° spot		
4.0087.00.03	4.0087.02.03	POW-LED neutral white <input type="checkbox"/>	4.500K	1 x 1 W (110 lm/LED)	350 mA		10° spot		
4.0087.00.04	4.0087.02.04	POW-LED yellow <input type="checkbox"/>		1 x 1 W	350 mA		10° spot		
4.0087.00.05	4.0087.02.05	POW-LED red <input type="checkbox"/>		1 x 1 W	350 mA		10° spot		
4.0087.00.06	4.0087.02.06	POW-LED blue <input type="checkbox"/>		1 x 1 W	350 mA		10° spot		
4.0087.00.07	4.0087.02.07	POW-LED green <input type="checkbox"/>		1 x 1 W	350 mA		10° spot		
<b>halogen</b>									
4.0087.00.20	4.0087.02.20	QR-CBC35		20W	12V-AC	GU4	36°	C13	
<b>installation housing</b>									
4.0089.00.00	Installation housing out of 316L stainless steel with 1.5m cable protection tube and terminating cable gland (M20 plastic)								

## Recessed Underwater-Light





# Recessed Linear Underwater-Light out of 316L stainless steel

## 4.3061



### DESCRIPTION

- Linear Spotlight, entirely made of V4A stainless steel 1.4571 EPOL
- Degree of protection IP68 – for water depth up to 5 m
- Rectangular cover, made of V4A stainless steel EPOL L645x128mm
- With POW-LED 18 x 3 W 700 mA/24 V DC white and blue medium 30° und POW LED 18 x 3W 700mA RGB, temperature controlled (NTC), +/- 15° adjustable
- Constant-current power source/ RGB controller external
- Rotationally symmetric light distribution with POW LED white and blue 90° and RGB medium 30°, Cable gland PG11, V4A stainless steel EPOL
- Installation housing made of V4A stainless steel EPOL with 1.5m cable protection tube for wall and floor installation in concrete pools with tile covering and for welding into stainless steel pools
- Supplied with lamp and 3m of silicon cable

### ACCESSORIES & POWER SUPPLIES

see page 72 and 137+

### REFERENCES

- Use of the most powerful single-chip POW-LED with over 150 lm/LED (TLF) at 700 mA with light colour cold white
- Matching installation housing should be selected, depending on the installation type and situation.

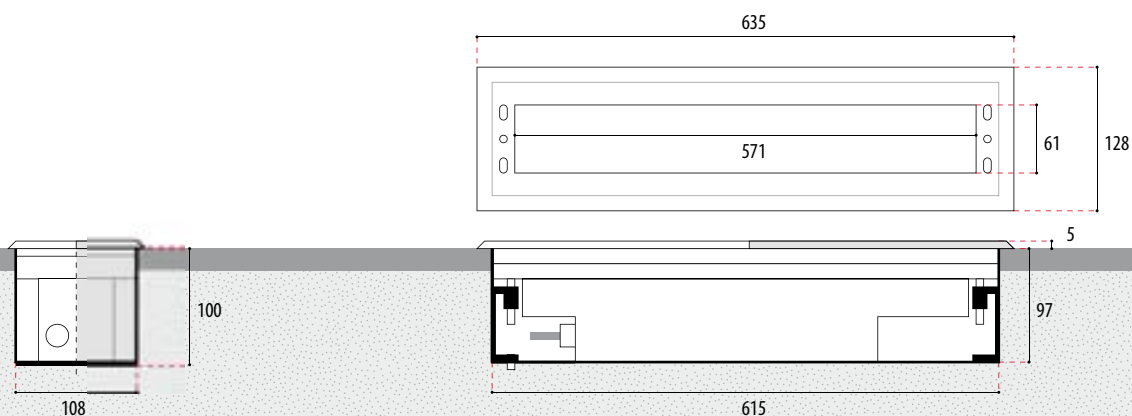
### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30°, medium flood 45°; flood 90° and elliptical 41x10° on request
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Installation housing for other pool types or flush cover version on request.



### APPLICATION

- For fixation inground and walls for illumination and accent lighting in swimming pools, water attractions and fountains.



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radiation angle	No. >163
<b>Versions: Only underwater operation</b>						
<b>POW-LED, Radiation Angle 30° (medium)</b>						
4.3061.40.11	POW-LED cold white	6.000K	18 x 3 W (230 lm/LED = total 4140 lm)	700 mA/24 V-DC	30°	
4.3061.40.12	POW-LED warm white	3.000K	18 x 3 W (150 lm/LED = total 2700 lm)	700 mA/24 V-DC	30°	
4.3061.40.13	POW-LED neutral white	4.500K	18 x 3 W (160 lm/LED = total 2880 lm)	700 mA/24 V-DC	30°	
4.3061.40.16	POW-LED royal blue		18 x 3 W (610 mW/LED)	700 mA/24 V-DC	30°	
4.3061.40.19	POW-LED RGB		18 x 3 W	700 mA/24 V-DC	30°	
<b>installation housing</b>						
4.3061.01.00	made of V4A stainless steel with 1.5m protective cable tube and M20 plastic terminating connection, for installation in concrete pools with tile covering					
4.3061.04.00	made of V4A stainless steel with 1.5m protective cable tube and M20 plastic terminating connection, for welding into stainless steel pools					

# Recessed Underwater-Light

## power supplies & Accessories – 4.0087 · 4.0088 · 4.0093 · 4.3061

	5.0635.00.03 Power supply – for max. 3 POW-LED 1 W, 350 mA, IP20 – see page 138	5.0635.00.10 Power supply – for max. 6 POW-LED 1 W, 350 mA, IP20 – see page 138	5.0670.00.10 Power supply – for max. 3 POW-LED 3 W, 700 mA, IP20 – see page 138	5.0670.00.20 Power supply – for max. 6 POW-LED 3 W, 700 mA, IP20 – see page 138	5.0670.00.18 Power supply – only for 18 POW-LED 3 W Modul, 4200 mA, IP65 – see page 142	5.0635.09.16 RGB-Controller – for max. 12 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	5.0635.09.24 RGB-Controller – for max. 24 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	5.0670.09.18 RGB-Controller – for max. 18 POW-LED 3 W RGB, 700 mA, IP65 – see page 140	5.0098.00.00 Transformer – 1 x 50 W, 50 VA, 12 V-AC – see page 143	4.0081.14.00 coloured lamps – yellow	4.0081.15.00 coloured lamps – red	4.0081.16.00 coloured lamps – blue	4.0081.17.00 coloured lamps – green	4.0093.02.00 Anti-skid coating	4.0093.04.00 colour disk – yellow	4.0093.05.00 colour disk – red	4.0093.06.00 colour disk – blue	4.0093.07.00 colour disk – green	4.0094.55.55 gluing flange – ø 150 mm
Spotlight ↓	Power supplies									Accessories									
4.0087.00-02.01	●	●																	
4.0087.00-02.04	●	●																	
4.0087.00-02.05	●	●																	
4.0087.00-02.06	●	●																	
4.0087.00-02.07	●	●																	
4.0087.00-02.20									●										
4.0087.00-02.35									●										
4.0088.00-02.01	●	●																	
4.0088.00-02.04	●	●																	
4.0088.00-02.05	●	●																	
4.0088.00-02.06	●	●																	
4.0088.00-02.07	●	●																	
4.0088.00-02.20									●										
4.0088.00-02.35									●										
4.0089.00.00																			
4.0093.10-20-40.11			●	●										●					
4.0093.10-20-40.12			●	●										●					
4.0093.10-20-40.13			●	●										●					
4.0093.10-20-40.14	●	●												●					
4.0093.10-20-40.15	●	●												●					
4.0093.10-20-40.16	●	●												●					
4.0093.10-20-40.17	●	●												●					
4.0093.10-20-40.19						●	●							●					
4.0093.10-20-40.20								●	●	●	●	●	●	●	●	●	●	●	●
4.0093.10-20-40.35								●	●	●	●	●	●	●	●	●	●	●	●
4.0093.10-20-40.39								●	●	●	●	●	●	●	●	●	●	●	●
4.0094.00.00																			●
4.3061.40.11					●	●													
4.3061.40.12					●	●													
4.3061.40.13					●	●													
4.3061.40.16					●	●													
4.3061.40.19								●											

# Surface-mounted Underwater-Lights



# Surface-mounted Underwater-Light out of 316L stainless steel

## 4.0011.15



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Compact spotlight, entirely made of marine grade 316L stainless steel
- With POW-LED 1 W- and 3 W light source
- Mounting foot adjustable through 180°
- Cable gland PG11, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- Supplied with light source and silicon cable (3 m) already connected

### APPLICATION

- For small fountains, watergames and exterior areas

### ACCESSORIES & POWER SUPPLIES

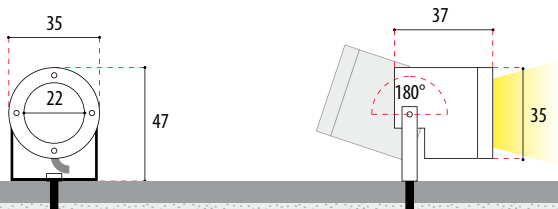
see page 80 and 137+

### REFERENCES

- POW-LED, series-connected

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30° and medium flood 45° on request



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>						
4.0011.15.01	POW-LED cold white <input type="checkbox"/>	6.000K	1 x 1 W (100 lm/LED)	350 mA	10° spot	V12
4.0011.15.02	POW-LED warm white <input type="checkbox"/>	3.000K	1 x 1 W (80 lm/LED)	350 mA	10° spot	
4.0011.15.03	POW-LED neutral white <input type="checkbox"/>	4.500K	1 x 1 W (90 lm/LED)	350 mA	10° spot	
4.0011.15.04	POW-LED yellow <input type="checkbox"/>		1 x 1 W	350 mA	10° spot	
4.0011.15.05	POW-LED red <input type="checkbox"/>		1 x 1 W	350 mA	10° spot	
4.0011.15.06	POW-LED blue <input type="checkbox"/>		1 x 1 W	350 mA	10° spot	
4.0011.15.07	POW-LED green <input type="checkbox"/>		1 x 1 W	350 mA	10° spot	
<b>Versions: Only underwater operation</b>						
4.0011.15.11	POW-LED cold white <input type="checkbox"/>	6.000K	1 x 3 W (150 lm/LED)	700 mA	10°	W31
4.0011.15.12	POW-LED warm white <input type="checkbox"/>	3.000K	1 x 3 W (130 lm/LED)	700 mA	10°	
4.0011.15.13	POW-LED neutral white <input type="checkbox"/>	4.500K	1 x 3 W (140 lm/LED)	700 mA	10°	
4.0011.15.09	1 Multichip POW-LED RGB (3 x 1 W) <input type="checkbox"/>		3 x 1 W (total/all on)	350 mA	120°	

## Surface-mounted Underwater-Light out of 316L stainless steel

4.0086



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Compact spotlight, entirely made of marine grade 316L stainless steel
- With QR-CB51, QPAR16 or POW-LED light source
- Mounting foot adjustable through 90°
- Cable gland PG11, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- Supplied with light source and silicon cable (3 m) already connected

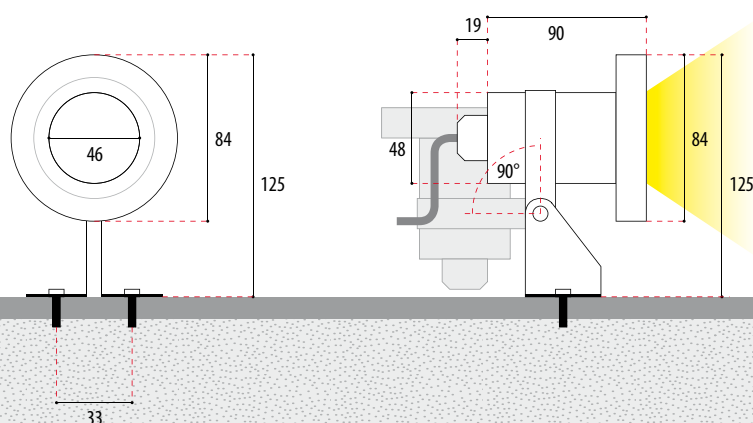
ACCESSORIES & POWER SUPPLIES  
see page 80 and 137+

## REFERENCES

- POW-LED, series-connected

## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- Radiation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>							
<b>POW-LED</b>							
4.0086.00.14	POW-LED yellow		3 x 1 W	350 mA		30° medium	
4.0086.00.15	POW-LED red		3 x 1 W	350 mA		30° medium	
4.0086.00.16	POW-LED blue		3 x 1 W	350 mA		30° medium	
4.0086.00.17	POW-LED green		3 x 1 W	350 mA		30° medium	
4.0086.00.19	POW-LED RGB		3 x 1 W	350 mA		30° medium	
<b>QR-CB51</b>							
4.0086.00.20	QR-CBC51	3.000K	20W	12V-AC	GU5,3	36°	C22
4.0086.00.35	QR-CBC51	3.000K	35W	12V-AC	GU5,3	36°	C33
<b>Versions: Only underwater operation</b>							
<b>POW-LED</b>							
4.0086.00.11	POW-LED cold white	6.000K	3 x 3 W (150 lm/LED = total 450 lm)	700 mA		30°	W33
4.0086.00.12	POW-LED warm white	3.000K	3 x 3 W (130 lm/LED = total 390 lm)	700 mA		30°	
4.0086.00.13	POW-LED neutral white	4.500K	3 x 3 W (140 lm/LED = total 420 lm)	700 mA		30°	
4.0086.00.39	POW-LED RGB		3 x 3 W	700 mA		30°	
<b>QR-CB51</b>							
4.0086.00.50	QR-CBC51	3.000K	50W	12V-AC	GU5,3	36°	C43
4.0086.00.75	QR-CBC51	3.000K	75W	12V-AC	GU5,3	60°	C53
<b>QPAR16</b>							
4.0086.00.51	QPAR16		35W	230V	GU10	35°	G11
4.0086.00.52	QPAR16		50W	230V	GU10	35°	G12

# Surface-mounted Spotlight stainless steel 316L

## 4.0072



### DESCRIPTION

- Spotlight, entirely made of V4A stainless steel 1.4571 EPOL
- Protection class IP68 – Water depth 3 m
- For use in outdoor and underwater environments
- with POW-LED 3 x 1 W cold white (6000 K), neutral white (4500 K), warm white (3000 K), colored; POW-LED 3 x 1 W RGB, low voltage halogen QR-CB51 ES 20 W/35 W/12 V-AC
- For use in underwater environments only
- with POW-LED 3 x 3 W cold white (6000K), neutral white (4500 K), warm white (3000 K), colored; 3 Multichip POW-LED 3 x 3 W RGB, low voltage halogen QR-CB51 ES 20 W/35 W/50 W/12 V-AC, POW-LED 6 x 3 W cold white (6000 K)
- Rotationally symmetric light distribution with POW LED 10° and 30° and for low-voltage halogen 36°
- Screw-type cable fastener with M16x1.5, PVDF
- Supplied with lamp and 3m of underwater cable
- Constant-current power source/RGB controller/transformer external

### APPLICATION

- For illuminating and accentuating areas outdoors, e.g. facades, buildings, trees and in the underwater environment of fountains and water features.

### ACCESSORIES & POWER SUPPLIES

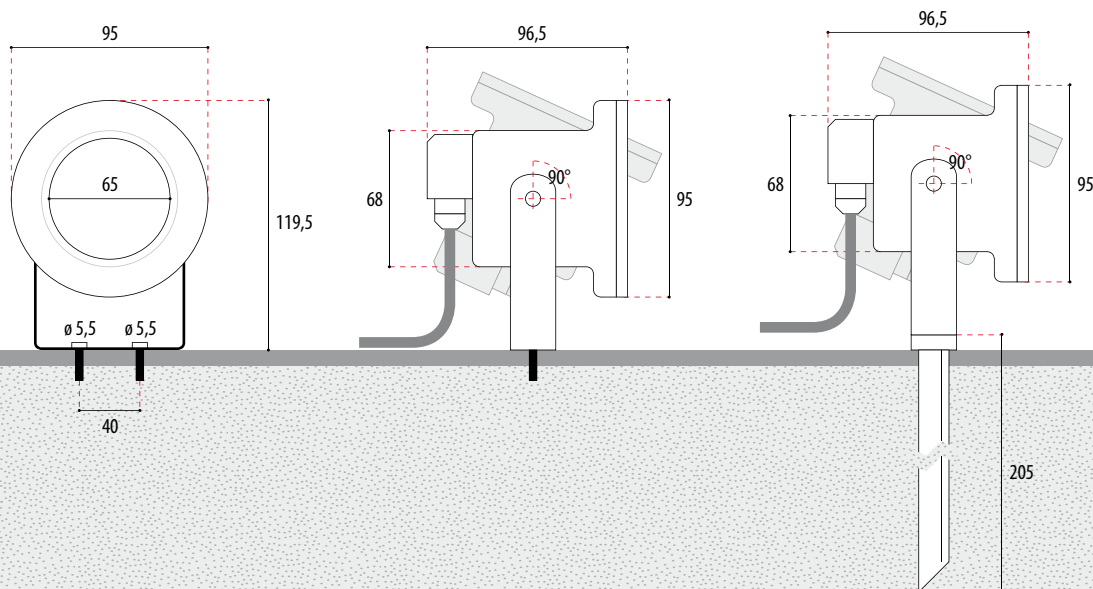
see page 81 and 137+

### REFERENCES

- Use of the most powerful single-chip POW-LED with over 140lm/LED (TLF) at 350 mA (133lm/Watt) in light colour cold white.

### OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30°, medium flood 45°, flood 90° and elliptical 15x40°
- POW-LED 6 x 3 W cold white, neutral white and warm white
- Internal power supply available on request
- Halogen OR-CB51 lamps possible in various beam angles – 10°, 24°, 36°, 60° – and various colours – blue, yellow, green, magenta, orange, red




# Surface-mounted Spotlight stainless steel 316L

## 4.0072



Norwegian Bank, Oslo, Norway

Article number	Lamps	Light colour	Wattage (TLF)	Tension	Radiation angle	
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>						
<b>POW-LED, Radiation Angle 10°(spot)</b>						
4.0072.00.01	POW-LED cold white <input type="checkbox"/>	6.000 K	3 x 1 W (140 lm/LED = total 420 lm)	350 mA	10° spot	V32
4.0072.00.02	POW-LED warm white <input type="checkbox"/>	3.000 K	3 x 1 W (110 lm/LED = total 330 lm)	350 mA	10° spot	
4.0072.00.03	POW-LED neutral white <input type="checkbox"/>	4.500 K	3 x 1 W (125 lm/LED = total 375 lm)	350 mA	10° spot	
4.0072.00.06	POW-LED blue <input type="checkbox"/>		3 x 1 W (400 mW/LED)	350 mA	10° spot	
4.0072.00.09	POW-LED RGB <input type="checkbox"/>		3 x 1 W	350 mA	10° spot	
<b>POW-LED, Radiation Angle 30°/40° (medium)</b>						
4.0072.00.11	POW-LED cold white <input type="checkbox"/>	6.000 K	3 x 1 W (140 lm/LED = total 420 lm)	350 mA	30° medium	V33
4.0072.00.12	POW-LED warm white <input type="checkbox"/>	3.000 K	3 x 1 W (110 lm/LED = total 330 lm)	350 mA	30° medium	
4.0072.00.13	POW-LED neutral white <input type="checkbox"/>	4.500 K	3 x 1 W (125 lm/LED = total 375 lm)	350 mA	30° medium	
4.0072.00.16	POW-LED blue <input type="checkbox"/>		3 x 1 W (400 mW/LED)	350 mA	30° medium	
4.0072.00.19	POW-LED RGB <input type="checkbox"/>		3 x 1 W	350 mA	30° medium	
<b>halogen</b>						
4.0072.00.20	QR-CBC51 (IRC) GU5,3	3.000K	20W 1.000cd	12V-AC	36°	C63
4.0072.00.35	QR-CBC51 (IRC) GU5,3	3.000K	35W 2.200cd	12V-AC	36°	C73
<b>Versions: Only underwater operation</b>						
<b>POW-LED, Radiation Angle 10°(spot)</b>						
4.0072.30.01	POW-LED cold white <input type="checkbox"/>	6.000 K	3 x 3 W (230 lm/LED = total 690 lm)	700 mA	10° spot	W61
4.0072.30.02	POW-LED warm white <input type="checkbox"/>	3.000 K	3 x 3 W (190 lm/LED = total 570 lm)	700 mA	10° spot	
4.0072.30.03	POW-LED neutral white <input type="checkbox"/>	4.500 K	3 x 3 W (215 lm/LED = total 645 lm)	700 mA	10° spot	
4.0072.30.06	POW-LED blue <input type="checkbox"/>		3 x 3 W (630mW/LED)	700 mA	10° spot	
4.0072.30.08	POW-LED cold white <input type="checkbox"/>	6.000 K	6 x 3 W (230 lm/LED = total 1380 lm)	700 mA	15° spot	W11
4.0072.30.09	POW-LED RGB <input type="checkbox"/>		3 x 3 W	700 mA	10° spot	
4.0072.30.29	3 Multichip POW-LED RGB (3 x 3 W) <input type="checkbox"/>		9 x 3 W (total/all on)	700 mA	10° spot	
<b>POW-LED, Radiation Angle 30°/40° (medium)</b>						
4.0072.30.11	POW-LED cold white <input type="checkbox"/>	6.000 K	3 x 3 W (230 lm/LED = total 690 lm)	700 mA	30° medium	W33
4.0072.30.12	POW-LED warm white <input type="checkbox"/>	3.000 K	3 x 3 W (190 lm/LED= total 570 lm)	700 mA	30° medium	
4.0072.30.13	POW-LED neutral white <input type="checkbox"/>	4.500 K	3 x 3 W (215 lm/LED= total 645 lm)	700 mA	30° medium	
4.0072.30.16	POW-LED blue <input type="checkbox"/>		3 x 3 W (630mW/LED)	700 mA	30° medium	
4.0072.30.18	POW-LED cold white <input type="checkbox"/>	6.000 K	6 x 3 W (230 lm/LED = total 1380 lm)	700 mA	40° medium	W12
4.0072.30.19	POW-LED RGB <input type="checkbox"/>		3 x 3 W	700 mA	30° medium	
4.0072.30.39	3 Multichip POW-LED RGB (3 x 3 W) <input type="checkbox"/>		9 x 3 W (total/all on)	700 mA	30° medium	
<b>halogen</b>						
4.0072.30.20	QR-CBC51 (IRC) GU5,3	3.000K	20W 1.000cd	12V-AC	36°	C63
4.0072.30.35	QR-CBC51 (IRC) GU5,3	3.000K	35W 2.200cd	12V-AC	36°	C73
4.0072.30.50	QR-CBC51 (IRC) GU5,3	3.000K	50W 2.850cd	12V-AC	36°	C83

# Surface-mounted Underwater-Light out of 304L stainless steel

## 4.0077 – 4.0070



4.0077



4.0070

### DESCRIPTION

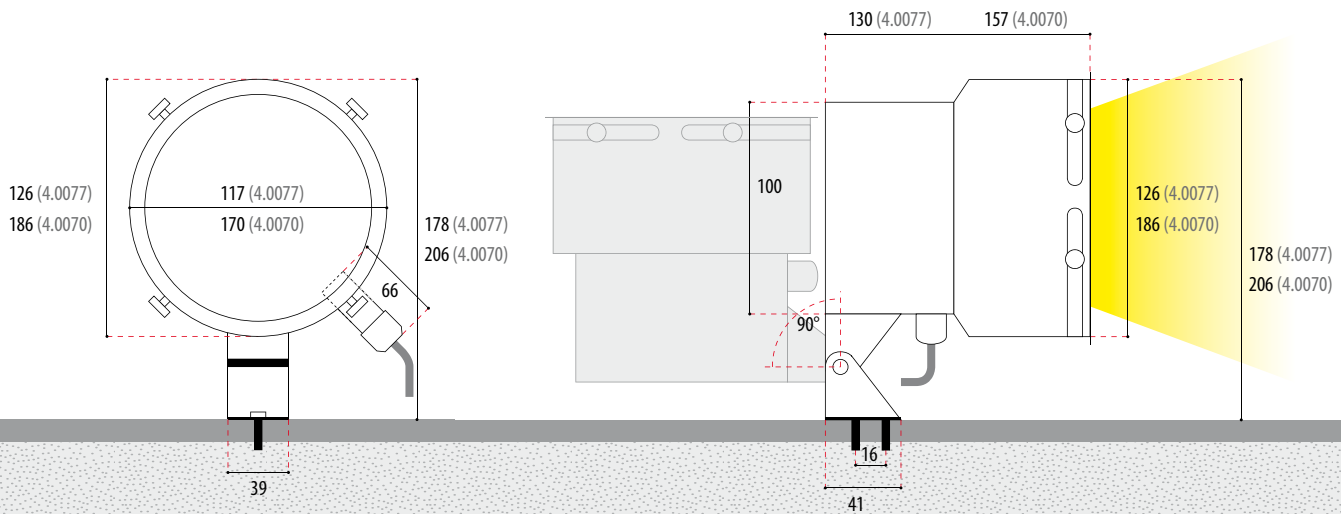
- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 304L stainless steel
- With PAR38, PAR56 or QT12 light source
- Mounting foot adjustable through 90°
- Cable gland PG16, plastic
- Temperature-resistant silicon seal
- Supplied with light source

### ACCESSORIES & POWER SUPPLIES

see page 80 and 137+

### OPTIONS ON REQUEST

- Please order the double cable gland for ring assembly separately



Article number	Lamps	Wattage	Tension	Socket	Radation angle	No. >163
<b>Versions: Only underwater operation</b>						
<b>QT12</b>						
4.0077.00.10	PAR38 flood	100W	12V-AC	Klemme	30°	A25
<b>PAR38</b>						
4.0077.00.11	PAR38 spot	120W	230V	Klemme	12°	G36
4.0077.00.12	PAR38 spot	120W	24V-DC	Klemme	12°	G31
4.0077.00.13	PAR38 flood	120W	230V	Klemme	30°	G37
<b>PAR56</b>						
4.0070.00.30	PAR56	300W	230V	GX16d	9°x 12°	G42
4.0070.00.31	PAR56	300W	230V	GX16d	11°x25°	G43
4.0070.00.32	PAR56	300W	230V	GX16d	16°x40°	G44
4.0070.00.33	PAR56	300W	12V-AC	Klemme	16°x40°	G41



# Surface-mounted Underwater-Light out of 316L stainless steel

**4.0036**

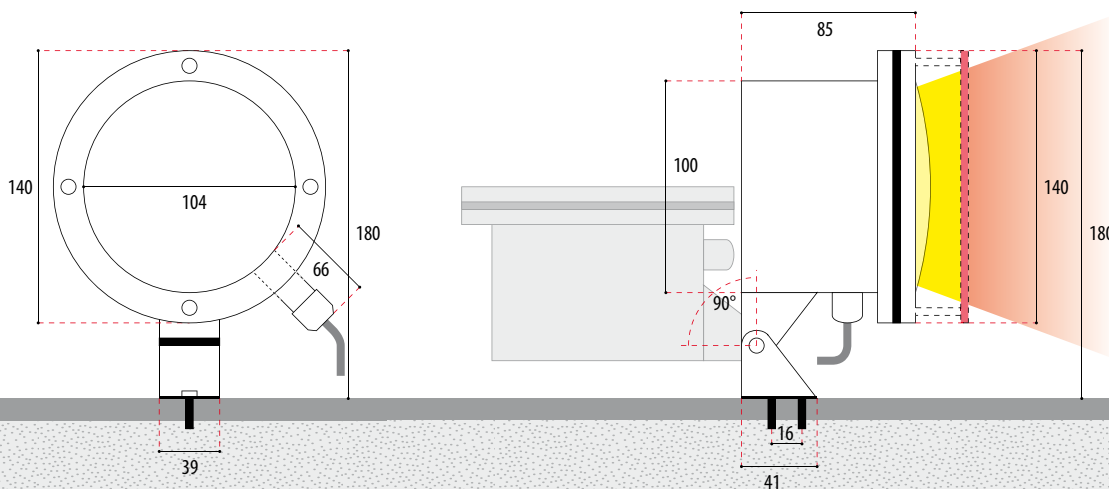


### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel
- With PAR36 reflector lamps
- Mounting foot adjustable through 90°
- Cable gland PG16, plastic
- Temperature-resistant silicon seal
- Supplied with light source PAR36

### ACCESSORIES & POWER SUPPLIES

see page 80 and 137+



Article number	Lamps	Wattage	Tension	Socket	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>						
<b>Standard-Version</b>						
4.0036.00.25	PAR36	25W	12V-AC	Klemme	11°	G21
4.0036.00.26	PAR36	25W	12V-AC	Klemme	36°	G22
<b>Versions: Only underwater operation</b>						
<b>Standard-Version</b>						
4.0036.00.50	PAR36	50W	12V-AC	Klemme	11°	G23
4.0036.00.51	PAR36	50W	12V-AC	Klemme	36°	G24
<b>Version for Colour disk</b>						
4.0036.40.25	PAR36	25W	12V-AC	Klemme	11°	G21
4.0036.40.26	PAR36	25W	12V-AC	Klemme	36°	G22
4.0036.40.50	PAR36	50W	12V-AC	Klemme	11°	G23
4.0036.40.51	PAR36	50W	12V-AC	Klemme	36°	G24



# Surface-mounted Underwater-Light out of 316L stainless steel

## power supplies & Accessories – 4.0072

	5.0635.00.03 Power supply – for max. 3 POW-LED 1 W, 350 mA, IP20 – see page 138	5.0635.00.10 Power supply – for max. 6 POW-LED 1 W, 350 mA, IP20 – see page 138	5.0635.00.20 Power supply – for max. 12 POW-LED 1 W, 350 mA, IP20 – see page 138	5.0670.00.06 Power supply – only for 6 POW-LED 3 W Modul, 1400 mA, IP65 – see page 142	5.0670.00.10 Power supply – for max. 3 POW-LED 3 W, 700 mA, IP20 – see page 138	5.0670.00.20 Power supply – for max. 6 POW-LED 3 W, 700 mA, IP20 – see page 138	5.0635.09.16 RGB-Controller – for max. 12 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	5.0670.09.18 RGB-Controller – for max. 18 POW-LED 3 W RGB, 700 mA, IP65 – see page 140	5.0098.00.00 Transformer – 1 x 50 W, 50 VA, 12 V-AC – see page 143	9.0072.20.00 spike – stainless steel, 205 mm	9.0072.00.20 glass disc, frosted – for softer light distribution (light loss approx. -15%)	9.0072.00.50 anti-glare louver	9.0072.21.00 Mounting plate V4A, D125 mm, turnable +/-45°
<b>Spotlight</b> ↓	<b>Power supplies</b>									<b>Accessories</b>			
4.0072.00.01	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.02	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.03	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.06	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.09							● 1-4			●	●	●	●
4.0072.00.11	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.12	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.13	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.16	● 1	● 1-2	● 2-4							●	●	●	●
4.0072.00.19							● 1-4			●	●	●	●
4.0072.00.20								● 1		●	●	●	●
4.0072.00.35								● 1		●	●	●	●
4.0072.30.01					● 1	● 1-2				●	●	●	●
4.0072.30.02					● 1	● 1-2				●	●	●	●
4.0072.30.03					● 1	● 1-2				●	●	●	●
4.0072.30.06					● 1	● 1-2				●	●	●	●
4.0072.30.08				● 1						●	●	●	●
4.0072.30.09								● 1-6		●	●	●	●
4.0072.30.11					● 1	● 1-2				●	●	●	●
4.0072.30.12					● 1	● 1-2				●	●	●	●
4.0072.30.13					● 1	● 1-2				●	●	●	●
4.0072.30.16					● 1	● 1-2				●	●	●	●
4.0072.30.18				● 1						●	●	●	●
4.0072.30.19								● 1-6		●	●	●	●
4.0072.30.20								● 1		●	●	●	●
4.0072.30.29								● 1-2		●	●	●	●
4.0072.30.35								● 1		●	●	●	●
4.0072.30.39								● 1-2		●	●	●	●
4.0072.30.50								● 1		●	●	●	●

# Surface-mounted Underwater-Light out of 316L stainless steel, 90° adjustable

**4.0192 · 4.0195**



4.0192



4.0195

## DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel for HIT-TC, halogen, POW-LED or compact light source TC-T/E (electronic ballast device installed for HIT-TC and TC-T/E)
- Mounting foot adjustable through 90°
- Cable gland PG13,5, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- POW-LED with light source and 3 m cable

## APPLICATION

- For fountains, plants and watergames

## ACCESSORIES & POWER SUPPLIES

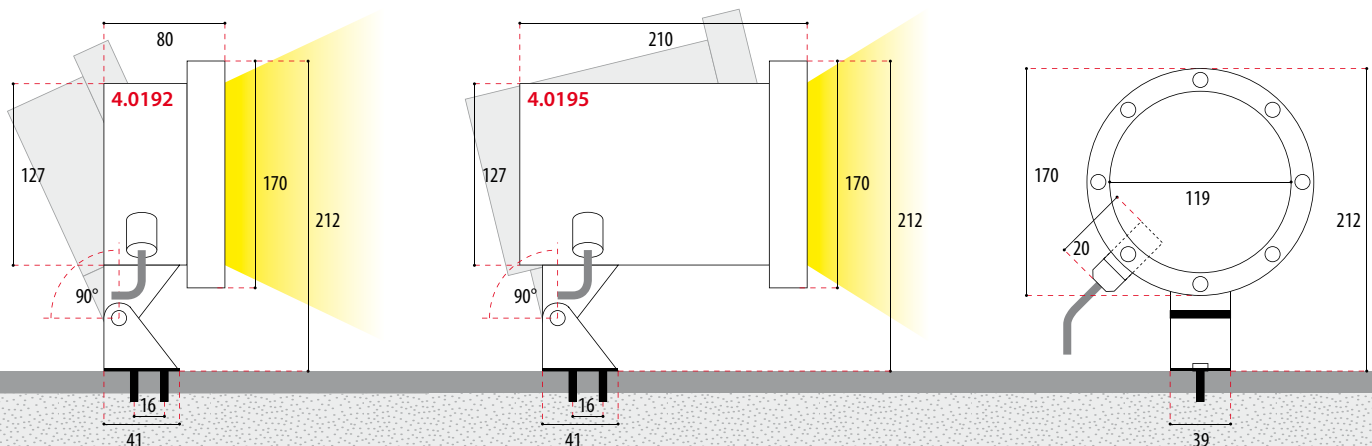
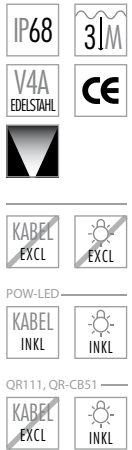
see page 90 and 137+

## REFERENCES

- POW-LED, series-connected

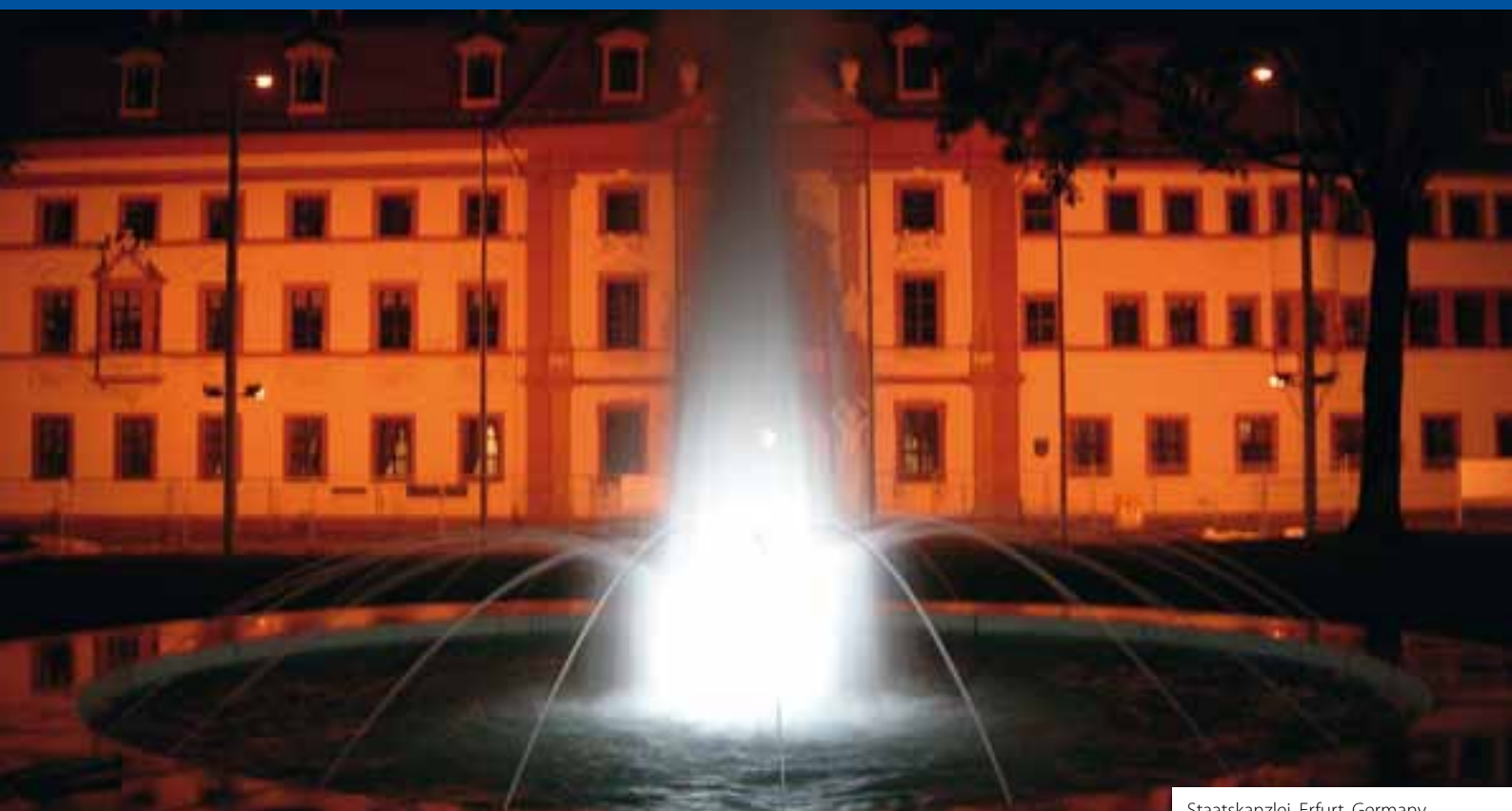
## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- Radiation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°
- QR111: 8°, 24°, 45°
- Incl. light sources and cable



## Surface-mounted Underwater-Light out of 316L stainless steel, 90° adjustable

4.0192 · 4.0195



Staatskanzlei, Erfurt, Germany

Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>							
<b>POW-LED</b>							
4.0192.90.01	POW-LED cold white <input type="checkbox"/>	6.000K	12 x 1 W (140 lm/LED = total 1680 lm)	350 mA	Klemme	30°	V23
4.0192.90.02	POW-LED warm white <input type="checkbox"/>	3.000K	12 x 1 W (100 lm/LED = total 1200 lm)	350 mA	Klemme	30°	
4.0192.90.03	POW-LED neutral white <input type="checkbox"/>	4.500K	12 x 1 W (110 lm/LED = total 1320 lm)	350 mA	Klemme	30°	
4.0192.90.09	POW-LED RGB <input type="checkbox"/>		12 x 1 W	350 mA	Klemme	30°	
<b>POW-LED – 230 V</b>							
4.0195.90.01	POW-LED cold white <input type="checkbox"/>	6.000K	12 x 1 W (140 lm/LED = total 1680 lm)	230V	Klemme	30°	V23
4.0195.90.02	POW-LED warm white <input type="checkbox"/>	3.000K	12 x 1 W (100 lm/LED = total 1200 lm)	230V	Klemme	30°	
4.0195.90.03	POW-LED neutral white <input type="checkbox"/>	4.500K	12 x 1 W (110 lm/LED = total 1320 lm)	230V	Klemme	30°	
<b>installation housing</b>							
4.0195.90.18	TC-TEL		18W	230V	GX24q-2	100° flood	T20
4.0195.90.20	HIT-TC-CE		20W	230V	G8,5	15° spot	M30
4.0195.90.21	HIT-TC-CE		20W	230V	G8,5	35° medium	M20
4.0195.90.22	HIT-TC-CE		20W	230V	G8,5	7° superspot	M18
4.0195.90.23	HIT-TC-CE		20W	230V	G8,5	55° flood	M32
<b>Versions: Only underwater operation</b>							
<b>POW-LED</b>							
4.0192.90.39	POW-LED RGB <input type="checkbox"/>		12 x 3 W	700 mA	Klemme	30°	
<b>QR111, QR-CB51</b>							
4.0192.90.10	QR111	3.000K	100W	12V-AC	G53	24°	D42
4.0192.90.15	QR-CBC51	3.000K	3 x 50W	12V-AC	GU5,3	36°	C45
<b>QR111, HIT</b>							
4.0195.90.10	QR111	3.000K	100W	230V (integ. Trafo)	G53	24°	D42
4.0195.90.35	HIT-TC-CE		35W	230V	G8,5	15° spot	M31
4.0195.90.36	HIT-TC-CE		35W	230V	G8,5	35° medium	M21
4.0195.90.37	HIT-TC-CE		35W	230V	G8,5	7° superspot	M19
4.0195.90.38	HIT-TC-CE		35W	230V	G8,5	55° flood	M33

# Surface-mounted Underwater-Light out of 316L stainless steel, 180° adjustable

## 4.0192 · 4.0195



4.0192



4.0195

### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel for HIT-TC, halogen, POW-LED or compact light source TC-T/E (electronic ballast device installed for HIT-TC and TC-T/E)
- Mounting foot adjustable through 180°
- Cable gland PG13,5, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- POW-LED with light source and 3 m cable

### APPLICATION

- For fountains, plants and watergames

### ACCESSORIES & POWER SUPPLIES

see page 90 and 137+

### REFERENCES

- POW-LED, series-connected

### OPTIONS ON REQUEST

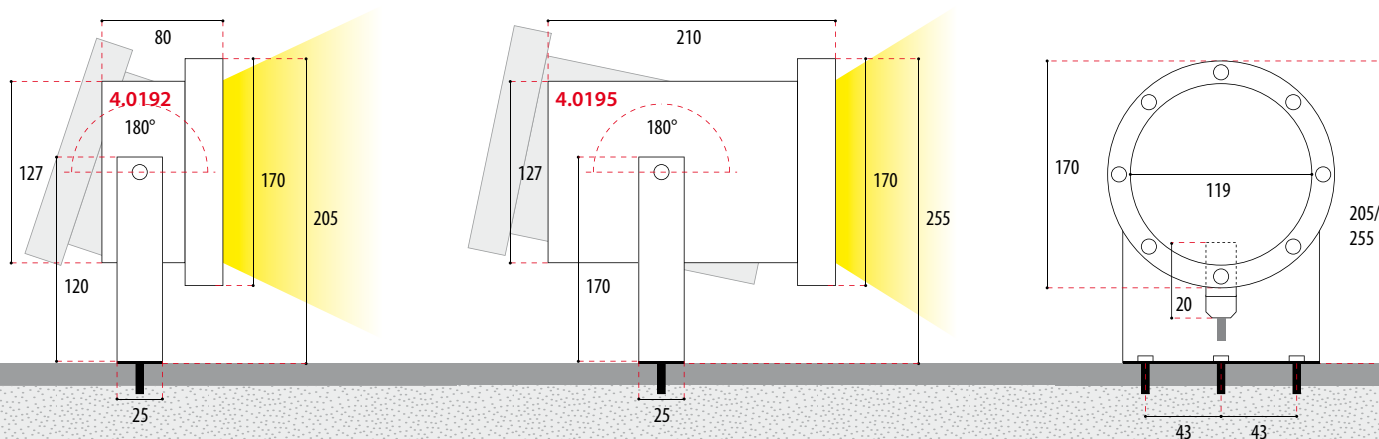
- Radation Angle: POW-LED: 10°, 30°, 45°
- Radation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°
- QR111: 8°, 24°, 45°
- Incl. light sources and cable



POW-LED



QR111, QR-CB51




## Surface-mounted Underwater-Light out of 316L stainless steel, 180° adjustable

4.0192 · 4.0195



Ypsilon Bridge, Drammen, Norway

Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radiation angle	
<b>Versions: Underwater and exterior operation (according to prior agreement)</b> ↓							
<b>POW-LED</b>							
4.0192.18.01	POW-LED cold white <input type="checkbox"/>	6.000K	12 x 1 W (140 lm/LED = total 1680 lm)	350 mA	Klemme	30°	V23
4.0192.18.02	POW-LED warm white <input type="checkbox"/>	3.000K	12 x 1 W (100 lm/LED = total 1200 lm)	350 mA	Klemme	30°	
4.0192.18.03	POW-LED neutral white <input type="checkbox"/>	4.500K	12 x 1 W (110 lm/LED = total 1320 lm)	350 mA	Klemme	30°	
4.0192.18.09	POW-LED RGB <input type="checkbox"/>		12 x 1 W	350 mA	Klemme	30°	
<b>POW-LED – 230 V</b>							
4.0195.18.01	POW-LED cold white <input type="checkbox"/>	6.000K	12 x 1 W (140 lm/LED = total 1680 lm)	230V	Klemme	30°	V23
4.0195.18.02	POW-LED warm white <input type="checkbox"/>	3.000K	12 x 1 W (100 lm/LED = total 1200 lm)	230V	Klemme	30°	
4.0195.18.03	POW-LED neutral white <input type="checkbox"/>	4.500K	12 x 1 W (110 lm/LED = total 1320 lm)	230V	Klemme	30°	
<b>installation housing</b>							
4.0195.18.18	TC-TEL		18W	230V	GX24q-2	100° flood	T20
4.0195.18.20	HIT-TC-CE		20W	230V	G8,5	15° spot	M30
4.0195.18.21	HIT-TC-CE		20W	230V	G8,5	35° medium	M20
4.0195.18.22	HIT-TC-CE		20W	230V	G8,5	7° superspot	M18
4.0195.18.23	HIT-TC-CE		20W	230V	G8,5	55° flood	M32
<b>Versions: Only underwater operation</b> ↓							
<b>POW-LED</b>							
4.0192.18.39	POW-LED RGB <input type="checkbox"/>		12 x 3 W	700 mA	Klemme	30°	
<b>QR111, QR-CB51</b>							
4.0192.18.10	QR111	3.000K	100W	12V-AC	G53	24°	D42
4.0192.18.15	QR-CB51	3.000K	3 x 50W	12V-AC	GU5,3	36°	C45
<b>QR111, HIT</b>							
4.0195.18.10	QR111	3.000K	100W	230V (integ. Trafo)	G53	24°	D42
4.0195.18.35	HIT-TC-CE		35W	230V	G8,5	15° spot	M31
4.0195.18.36	HIT-TC-CE		35W	230V	G8,5	35° medium	M21
4.0195.18.37	HIT-TC-CE		35W	230V	G8,5	7° superspot	M19
4.0195.18.38	HIT-TC-CE		35W	230V	G8,5	55° flood	M33

# Surface-mounted Underwater-Light out of 316L stainless steel, 90° adjustable

4.0365 · 4.0305

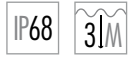


### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made entirely of marine grade 316L stainless steel for POW-LED modules or halogen light sources
- Mounting foot adjustable through 90°
- Cable gland PG16/21, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- POW-LED-Platine temperatur control (NTC)
- Ballast and ignitor fitted depending on the version
- POW-LED-Version with light source and 3 m cable

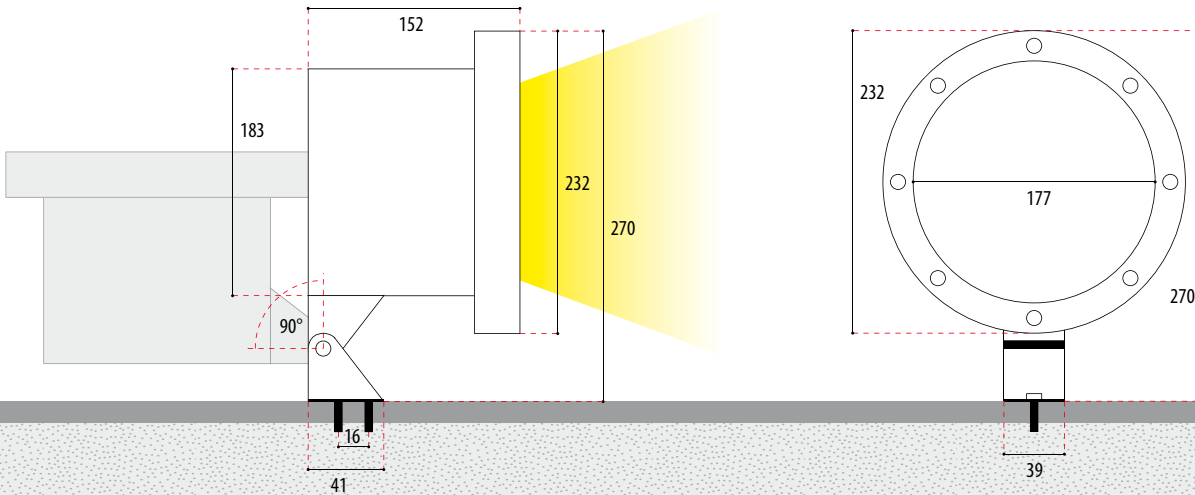
### ACCESSORIES & POWER SUPPLIES

see page 90 and 137+



### OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Please order the double cable gland for ring assembly separately



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>							
<b>POW-LED</b>							
4.0365.00.01	POW-LED cold white <input type="checkbox"/>	6.000K	36 x 1 W (140 lm/LED = total 5040 lm)	350 mA	Klemme	30°	V73
4.0365.00.02	POW-LED warm white <input type="checkbox"/>	3.000K	36 x 1 W (100 lm/LED = total 3600 lm)	350 mA	Klemme	30°	
4.0365.00.03	POW-LED neutral white <input type="checkbox"/>	4.500K	36 x 1 W (110 lm/LED = total 3960 lm)	350 mA	Klemme	30°	
4.0365.00.09	POW-LED RGB <input type="checkbox"/>		36 x 1 W	350 mA	Klemme	30°	
<b>halogen</b>							
4.0305.00.10	QT12	3.000K	90W	12V-AC	GY6,35	19°	B38
4.0305.00.35	HIT-CRI		35W	230V	G12	19°	I31
4.0305.00.50	HME		50W	230V	E27	109°	N31
<b>Versions: Only underwater operation</b>							
<b>POW-LED</b>							
4.0365.00.49	POW-LED RGB+White <input type="checkbox"/>		48 x 1 W	350 mA		30°	
<b>halogen</b>							
4.0305.00.00	QT32		150W	230V	E27	24°	F33
4.0305.00.25	M36		250W	24V-DC	GY6,35	28°	F37
4.0305.00.30	QR-CBS1	3.000K	6 x 50W	12V-AC	GU5,3	36°	C95
4.0305.00.38	M38		300W	230V	GY9,5	24°	F38
4.0305.00.40	M40		500W	230V	GY9,5	26°	F39
4.0305.00.70	HIT-CRI		70W	230V	G12	19°	I33



# Surface-mounted Underwater-Light out of 316L stainless steel, 90° adjustable

**4.0095**



**DESCRIPTION**

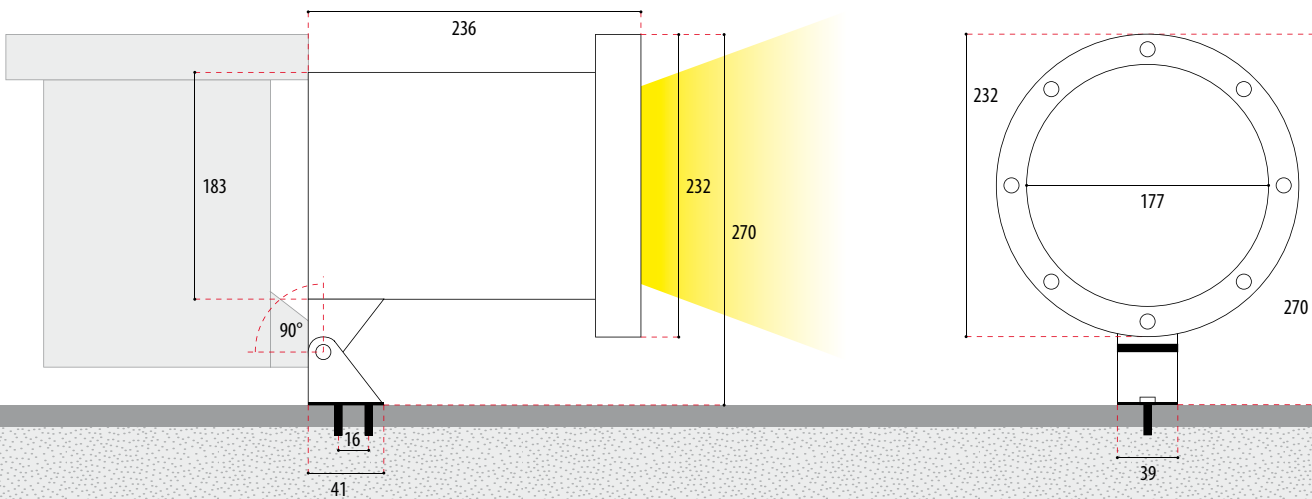
- Protection system IP68 – for a water depth of up to 3 m
- Made entirely of marine grade 316L stainless steel with aluminium reflector
- Mounting foot adjustable through 90°
- Cable gland PG16/21, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- Ballast and ignitor fitted depending on the version


**ACCESSORIES & POWER SUPPLIES**  
see page 90 and 137+



**OPTIONS ON REQUEST**

- Please order the double cable gland for ring assembly separately
- Coloured light sources available
- Other beam angles available
- Special designs available on request



Article number	Lamps	Wattage	Tension	Socket	Radation angle	
<b>Versions: Only underwater operation</b>						
4.0095.00.00	QT32	250W	230V	E27	24°	F35
4.0095.00.15	HIT-CRI	150W	230V	G12	20°	I35
4.0095.00.16	HIT-DE	150W	230V	RX7s-24	80°	J53
4.0095.00.17	HST-DE	150W	230V	RX7s-24	80°	Q52
4.0095.00.70	HIT-CRI	70W	230V	G12	19°	I33
4.0095.00.71	HIT-DE	70W	230V	RX7s	80°	J51
4.0095.00.80	HME	80W	230V	E27	109°	N32
4.0095.00.81	HME	125 W	230V	E27	109°	N33

# Surface-mounted Underwater-Light out of 316L stainless steel, 180° adjustable

## 4.0362 · 4.0302



### DESCRIPTION

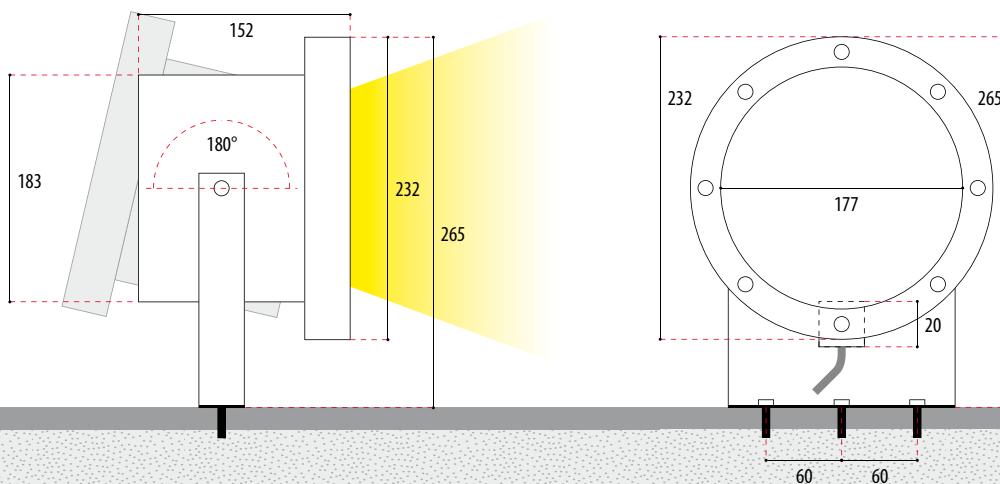
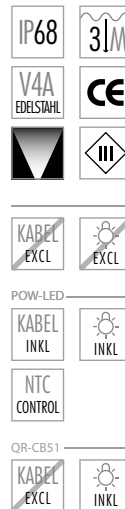
- Protection system IP68 – for a water depth of up to 3 m
- Made entirely of marine grade 316L stainless steel for POW-LED modules or halogen light sources
- Mounting foot adjustable through 180°
- Cable gland PG16/21, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- POW-LED-Platine temperatur control (NTC)
- Ballast and ignitor fitted depending on the version
- POW-LED-Version with light source and 3 m cable

### ACCESSORIES & POWER SUPPLIES

see page 90 and 137+

### OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Please order the double cable gland for ring assembly separately
- 12 V available on request
- Water depths of up to 30 m available



Article number	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>							
<b>POW-LED</b>							
4.0362.00.01	POW-LED cold white	6.000K	36 x 1 W (140 lm/LED = total 5040 lm)	350 mA	Klemme	30°	V73
4.0362.00.02	POW-LED warm white	3.000K	36 x 1 W (100 lm/LED = total 3600 lm)	350 mA	Klemme	30°	
4.0362.00.03	POW-LED neutral white	4.500K	36 x 1 W (110 lm/LED = total 3960 lm)	350 mA	Klemme	30°	
4.0362.00.09	POW-LED RGB		36 x 1 W	350 mA	Klemme	30°	
<b>halogen</b>							
4.0302.00.10	QT12	3.000K	90W	12V-AC	GY6,35	19°	B38
4.0302.00.35	HIT-CRI		35W	230V	G12	19°	I31
4.0302.00.50	HME		50W	230V	E27	109°	N31
<b>Versions: Only underwater operation</b>							
<b>POW-LED</b>							
4.0362.00.49	POW-LED RGB+White		48 x 1 W	350 mA		30°	
<b>halogen</b>							
4.0302.00.00	QT32		150W	230V	E27	24°	F33
4.0302.00.25	M36		250W	24V-DC	GY6,35	28°	F37
4.0302.00.30	QR-CBS51	3.000K	6 x 50W	12V-AC	GU5,3	36°	C95
4.0302.00.38	M38		300W	230V	GY9,5	24°	F38
4.0302.00.40	M40		500W	230V	GY9,5	26°	F39
4.0302.00.70	HIT-CRI		70W	230V	G12	19°	I33

# Surface-mounted Underwater-Light out of 316L stainless steel, 180° adjustable

**4.0097**



**DESCRIPTION**

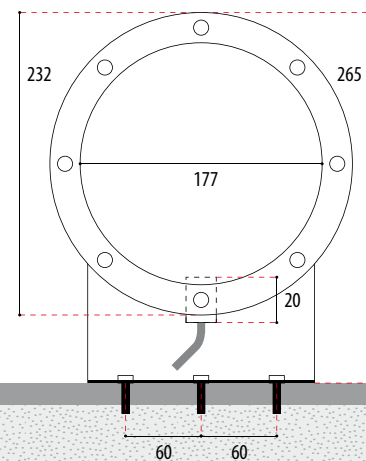
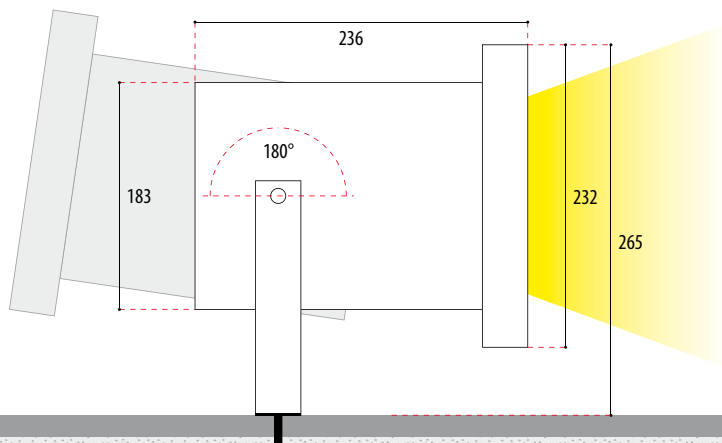
- Protection system IP68 – for a water depth of up to 3 m
- Made entirely of marine grade 316L stainless steel with aluminium reflector
- Mounting foot adjustable through 180°
- Cable gland PG16/21, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- Ballast and ignitor fitted depending on the version


**ACCESSORIES & POWER SUPPLIES**  
see page 90 and 137+



**OPTIONS ON REQUEST**

- Please order the double cable gland for ring assembly separately
- Coloured light sources available
- Other beam angles available
- Special designs available on request



Article number	Lamps	Wattage	Tension	Socket	Radation angle	
<b>Versions: Only underwater operation</b>						
4.0097.00.00	QT32	250W	230V	E27	24°	F35
4.0097.00.15	HIT-CRI	150W	230V	G12	20°	I35
4.0097.00.16	HIT-DE	150W	230V	RX7s-24	80°	J53
4.0097.00.17	HST-DE	150W	230V	RX7s-24	80°	Q52
4.0097.00.70	HIT-CRI	70W	230V	G12	19°	I33
4.0097.00.71	HIT-DE	70W	230V	RX7s	80°	J51
4.0097.00.80	HME	80W	230V	E27	109°	N32
4.0097.00.81	HME	125 W	230V	E27	109°	N33

# Surface-mounted Underwater-Light out of 316L stainless steel

## power supplies & Accessories – 4.0095 · 4.0097 · 4.0192 · 4.0195 · 4.0302 · 4.0305 · 4.0362 · 4.0365

	5.0635.00.36 Power supply – for max. 3 x 12 POW-LED 1 W, 350 mA, IP65 – see page 138	5.0635.09.50 RGB-Controller – for max. 36 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	5.0635.09.52 RGBW-Controller – for max. 48 POW-LED 1 W RGBW, 350 mA, IP65 – see page 140	5.0670.09.18 RGB-Controller – for max. 18 POW-LED 3 W RGB, 700 mA, IP65 – see page 140	5.0100.00.00 Transformer – 2 x 50 W, 100 VA, 12 V-AC – see page 143	5.0101.00.00 Transformer – 2 x 75 W, 150 VA, 12 V-AC – see page 143	5.0103.00.00 Transformer – 2 x 175 W, 350 VA, 12 V-AC – see page 143	5.0317.00.01 Transformer – 1 x 250 W, 250 VA, 24 V-DC – see page 143	4.0003.01.00 anti-glare louver – black, for symm. and asymm. Reflector	4.0003.02.00 anti-glare louver – black, for adjustable Reflector	4.0004.40.13 double cable gland – made of V4A-stainless steel	4.0004.40.16 double cable gland – made of V4A-stainless steel	4.0009.00.20 angular ring – with 2 protection bars	4.0009.00.40 angular ring – with 4 protection bars	4.0066.01.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.0230.01.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.0230.04.00 colour disk – yellow	4.0230.05.00 colour disk – red	4.0230.06.00 colour disk – blue	4.0230.07.00 colour disk – green	4.0232.04.00 colour filter, dichroitic – yellow	4.0232.05.00 colour filter, dichroitic – red	4.0232.06.00 colour filter, dichroitic – blue	4.0232.07.00 colour filter, dichroitic – green	4.0305.50.00 spike – 395 mm
Spotlight ↓	Power supplies								Accessories																
4.0095-97.00.00																									
4.0095-97.00.15																									
4.0095-97.00.16																									
4.0095-97.00.17																									
4.0095-97.00.70																									
4.0095-97.00.71																									
4.0095-97.00.80																									
4.0095-97.00.81																									
4.0192.18-90.01	●																								
4.0192.18-90.02	●																								
4.0192.18-90.03	●																								
4.0192.18-90.09		●																							
4.0192.18-90.10					●																				
4.0192.18-90.15						●																			
4.0192.18-90.39				●																					
4.0195.18-90.01																									
4.0195.18-90.02																									
4.0195.18-90.03																									
4.0195.18-90.10											●														
4.0195.18-90.18											●														
4.0195.18-90.20											●														
4.0195.18-90.21											●														
4.0195.18-90.22											●														
4.0195.18-90.23											●														
4.0195.18-90.35											●														
4.0195.18-90.36											●														
4.0195.18-90.37											●														
4.0195.18-90.38											●														
4.0305-302.00.00																									
4.0305-302.00.10																									
4.0305-302.00.25																									
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4.0305-302.00.38																									
4.0305-302.00.40																									
4.0305-302.00.50																									
4.0305-302.00.70																									
4.0362.00.01	●																								
4.0362.00.02	●																								
4.0362.00.03	●																								
4.0362.00.09		●																							
4.0362.00.49			●																						
4.0365.00.01	●																								
4.0365.00.02	●																								
4.0365.00.03	●																								
4.0365.00.09		●																							
4.0365.00.49			●																						

## Surface-mounted Underwater-dock-Light out of 316L stainless steel

4.2202



## DESCRIPTION

- Protection system IP68 – for a water depth of up to 10 m
- With marine grade 316L stainless steel housing and toughened safety glass which is resistant to temperature changes
- For metal halogen vapour lamps
- Supplied completely ready for connection, with ballast device and ignition device, light source and silicon cable (10 m) (3 x 2.5 qmm)
- inclusive pivoting/standing frame

## APPLICATION

- For use at ship-docks, raw sea and for special solutions, in fountains and high waterjets

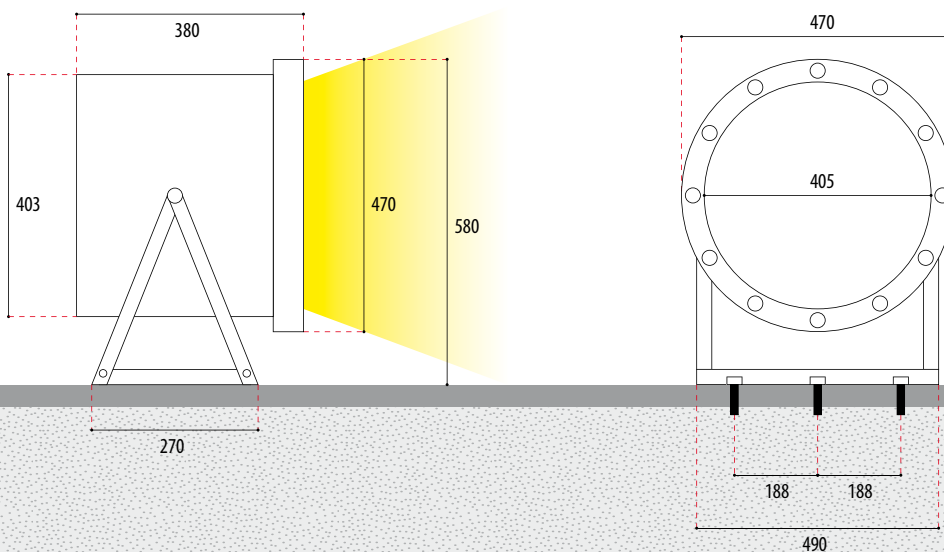
ACCESSORIES & POWER SUPPLIES  
see page 94 and 137+

## REFERENCES

- pivoting/standing frame inclusive

## OPTIONS ON REQUEST

- Coloured light sources available



Article number	Lamps	Wattage	Tension	Socket	Light-current	No >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>						
<b>Flood</b>						
4.2202.00.00	HIT (E40)	250W	230V	E40	21.000lm	M14
<b>Spot</b>						
4.2202.10.00	HIT-DE	250W	230V	Fc2	21.000lm	J20
<b>Versions: Only underwater operation</b>						
<b>Flood</b>						
4.2204.00.00	HIT (E40)	400W	230V	E40	42.000lm	M15
4.2206.00.00	HIT-DE	1000W	230V	Kabel	90.000lm	M16
<b>Spot</b>						
4.2204.10.00	HIT-DE	400W	230V	Fc2	40.000lm	J21

# Surface-mounted Underwater-Light out of 316L stainless steel, 180° adjustable

## 4.4110



### DESCRIPTION

- Protection system IP68 – for a water depth of up to 3 m
- Made of marine grade 316L stainless steel with a symmetrical stainless steel reflector
- Mounting bracket adjustable through 180°
- Cable gland PG16/21, marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass
- Ballast and Ignitor fitted depending on type, without light source

### ACCESSORIES & POWER SUPPLIES

see page 94 and 137+

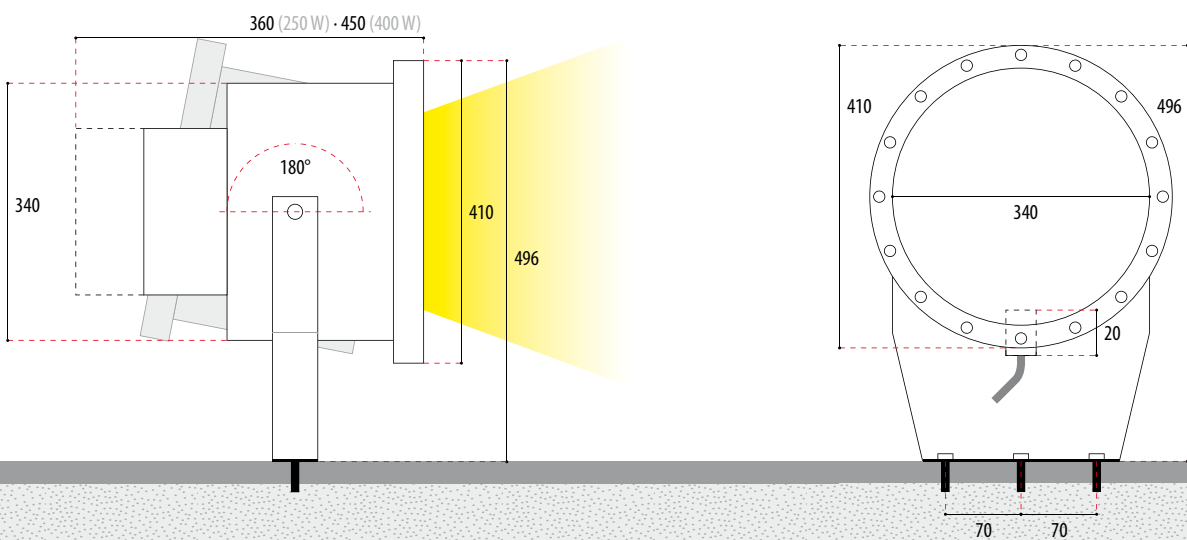


### OPTIONS ON REQUEST

- Coloured HIT light sources available

### APPLICATION

- For illumination of wide or high fountains



Article number	Lamps	Wattage	Tension	Socket	Radation angle	No. >163
<b>Versions: Underwater and exterior operation (according to prior agreement)</b>						
<b>Flood</b>						
4.4110.00.25	HIE	250W	230V	E40	80°	L76
4.4110.00.26	HSE-MF	250W	230V	E40	80°	R75
4.4110.00.27	HME	250W	230V	E40	80°	N74
<b>Spot</b>						
4.4110.00.29	HIT-DE	250W	230V	Fc2	16°	J20
4.4110.00.30	HST-DE	250W	230V	Fc2	20°	Q20
<b>Versions: Only underwater operation</b>						
<b>Flood</b>						
4.4110.00.40	HSE-MF	400W	230V	E40	80°	R76
4.4110.00.41	HIE	400W	230V	E40	80°	L77
4.4110.00.42	HME	400W	230V	E40	80°	N75
<b>Spot</b>						
4.4110.00.43	HIT-DE	400W	230V	Fc2	35°	J21
4.4110.00.44	HST-DE	400W	230V	Fc2	35°	Q21

## Surface-mounted Underwater-Light out of 316L stainless steel



# Surface-mounted Underwater-Light out of 316L stainless steel

## power supplies & Accessories – 4.2202 · 4.4110

	4.0004.40.16 double cable gland – made of V4A-stainless steel		4.0008.01.00 anti-glare louver		4.0085.01.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)		4.2001.00.00 Protective grille – made of V4A-stainless steel	
Spotlight ↓	Accessories							
4.2202.00.00							●	
4.2202.10.00							●	
4.2204.00.00							●	
4.2204.10.00							●	
4.2206.00.00							●	
4.4110.00.25	●		●		●			
4.4110.00.26	●		●		●			
4.4110.00.27	●		●		●			
4.4110.00.29	●		●		●			
4.4110.00.30	●		●		●			
4.4110.00.40	●		●		●			
4.4110.00.41	●		●		●			
4.4110.00.42	●		●		●			
4.4110.00.43	●		●		●			
4.4110.00.44	●		●		●			



# Ground mounted-Lights



## Ground mounted-Light with POW-LED

4.0011 · 4.0010



## DESCRIPTION

- Protection system IP67
- For floor and wall installation with aluminium installation sleeve and marine grade 316L stainless steel cover
- Housing made of anodised aluminium
- Flush-mounted cover, round or square cover
- Toughened safety glass (ESG) – withstands loads of up to 650 kg
- Supplied with POW-LED module, installation sleeve and 3 m of connecting cable

## APPLICATION

- For illumination and orientation for facades, terrace, ways and gardens. For floor and wall installation.

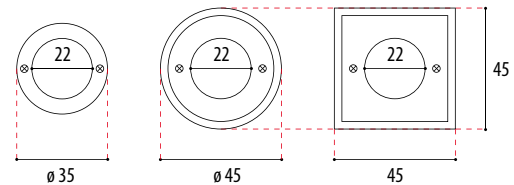
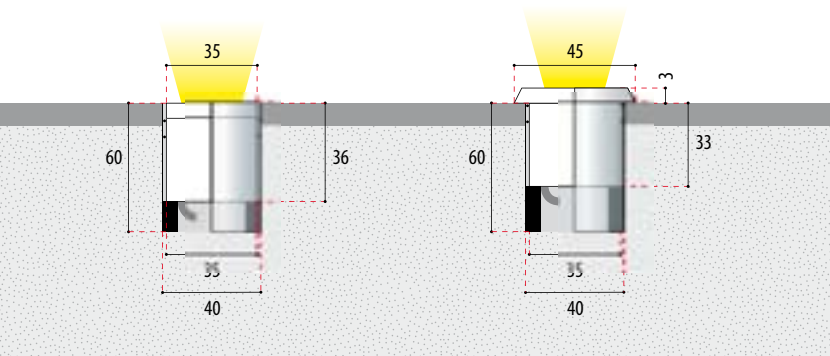
ACCESSORIES & POWER SUPPLIES  
see page 101 and 137+

## REFERENCES

- POW-LED, series-connected
- Glass surface temperature below 40° (Cool Contact)

## OPTIONS ON REQUEST

- Cable lengths available according to requirements
- marine grade 316L stainless steel housing on request
- Radiation angle 45° and 30°



Article number flush cover	Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Temperature	Radation angle	No. >163
<b>Radation Angle 10°(spot)</b>									
4.0011.10.01	4.0011.20.01	4.0011.40.01	POW-LED cold white <span style="color:blue">□</span>	6.000K	1 x 1 W (100 lm/LED)	350 mA	<40°C	10° spot	V12
4.0011.10.02	4.0011.20.02	4.0011.40.02	POW-LED warm white <span style="color:orange">□</span>	3.000K	1 x 1 W (80 lm/LED)	350 mA	<40°C	10° spot	
4.0011.10.03	4.0011.20.03	4.0011.40.03	POW-LED neutral white <span style="color:grey">□</span>	4.500K	1 x 1 W (90 lm/LED)	350 mA	<40°C	10° spot	
4.0011.10.04	4.0011.20.04	4.0011.40.04	POW-LED yellow <span style="color:yellow">■</span>		1 x 1 W	350 mA	<40°C	10° spot	
4.0011.10.05	4.0011.20.05	4.0011.40.05	POW-LED red <span style="color:red">■</span>		1 x 1 W	350 mA	<40°C	10° spot	
4.0011.10.06	4.0011.20.06	4.0011.40.06	POW-LED blue <span style="color:blue">■</span>		1 x 1 W	350 mA	<40°C	10° spot	
4.0011.10.07	4.0011.20.07	4.0011.40.07	POW-LED green <span style="color:green">■</span>		1 x 1 W	350 mA	<40°C	10° spot	
<b>Radation Angle homogen diffus</b>									
4.0010.10.01	4.0010.20.01	4.0010.40.01	POW-LED cold white <span style="color:blue">□</span>	6.000K	1 x 1 W (100 lm/LED)	350 mA	<40°C	homogen diffus	
4.0010.10.02	4.0010.20.02	4.0010.40.02	POW-LED warm white <span style="color:orange">□</span>	3.000K	1 x 1 W (80 lm/LED)	350 mA	<40°C	homogen diffus	
4.0010.10.03	4.0010.20.03	4.0010.40.03	POW-LED neutral white <span style="color:grey">□</span>	4.500K	1 x 1 W (90 lm/LED)	350 mA	<40°C	homogen diffus	
4.0010.10.04	4.0010.20.04	4.0010.40.04	POW-LED yellow <span style="color:yellow">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0010.10.05	4.0010.20.05	4.0010.40.05	POW-LED red <span style="color:red">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0010.10.06	4.0010.20.06	4.0010.40.06	POW-LED blue <span style="color:blue">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0010.10.07	4.0010.20.07	4.0010.40.07	POW-LED green <span style="color:green">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	

## Ground mounted-Light with POW-LED

4.0026 · 4.0025



## DESCRIPTION

- Protection system IP67
- For floor installation with a plastic installation container
- Housing made of anodised aluminium
- With round or square marine grade 316L stainless steel cover
- Toughened safety glass (ESG) – withstands loads of up to 650 kg
- Supplied with LED module, plastic installation container and 3 m of connecting cable

## APPLICATION

- For illumination and orientation for facades, terrace, ways and gardens.
- For floor and wall installation.

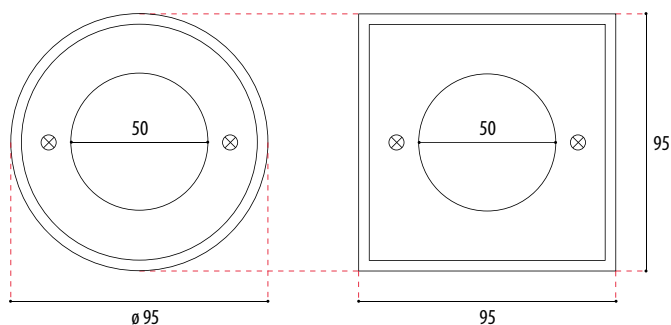
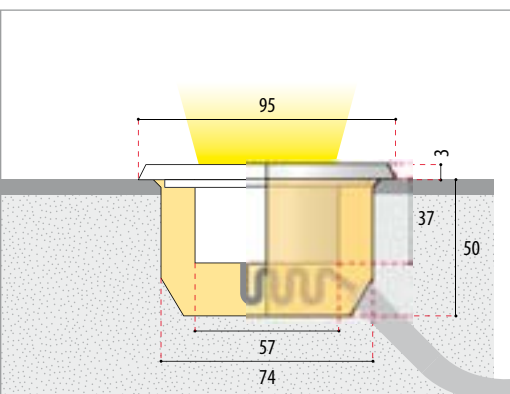
ACCESSORIES & POWER SUPPLIES  
see page 101 and 137+

## REFERENCES

- POW-LED, series-connected
- Glass surface temperature below 40° (Cool Contact)

## OPTIONS ON REQUEST

- Cable lengths available according to requirements
- marine grade 316L stainless steel housing on request
- Radiation angle 45°



Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Temperature	Radiation angle	No. >163
<b>Radiation Angle 10°(spot)</b>								
4.0026.20.01	4.0026.40.01	POW-LED cold white <span style="color:blue">□</span>	6.000 K	3 x 1 W (140 lm/LED = total 420 lm)	350 mA	<40°C	10° spot	V32
4.0026.20.02	4.0026.40.02	POW-LED warm white <span style="color:orange">□</span>	3.000K	3 x 1 W (100 lm/LED = total 300 lm)	350 mA	<40°C	10° spot	
4.0026.20.03	4.0026.40.03	POW-LED neutral white <span style="color:grey">□</span>	4.500K	3 x 1 W (110 lm/LED = total 330 lm)	350 mA	<40°C	10° spot	
4.0026.20.04	4.0026.40.04	POW-LED yellow <span style="color:yellow">■</span>		3 x 1 W	350 mA	<40°C	10° spot	
4.0026.20.05	4.0026.40.05	POW-LED red <span style="color:red">■</span>		3 x 1 W	350 mA	<40°C	10° spot	
4.0026.20.06	4.0026.40.06	POW-LED blue <span style="color:blue">■</span>		3 x 1 W	350 mA	<40°C	10° spot	
4.0026.20.07	4.0026.40.07	POW-LED green <span style="color:green">■</span>		3 x 1 W	350 mA	<40°C	10° spot	
4.0026.20.09	4.0026.40.09	POW-LED RGB <span style="color:red">■</span> <span style="color:green">■</span> <span style="color:blue">■</span>		3 x 1 W	350 mA	<40°C	10° spot	
<b>Radiation Angle 30° (medium)</b>								
4.0026.20.11	4.0026.40.11	POW-LED cold white <span style="color:blue">□</span>	6.000 K	3 x 1 W (140 lm/LED = total 420 lm)	350 mA	<40°C	30° medium	V33
4.0026.20.12	4.0026.40.12	POW-LED warm white <span style="color:orange">□</span>	3.000K	3 x 1 W (100 lm/LED = total 300 lm)	350 mA	<40°C	30° medium	
4.0026.20.13	4.0026.40.13	POW-LED neutral white <span style="color:grey">□</span>	4.500K	3 x 1 W (110 lm/LED = total 330 lm)	350 mA	<40°C	30° medium	
4.0026.20.14	4.0026.40.14	POW-LED yellow <span style="color:yellow">■</span>		3 x 1 W	350 mA	<40°C	30° medium	
4.0026.20.15	4.0026.40.15	POW-LED red <span style="color:red">■</span>		3 x 1 W	350 mA	<40°C	30° medium	
4.0026.20.16	4.0026.40.16	POW-LED blue <span style="color:blue">■</span>		3 x 1 W	350 mA	<40°C	30° medium	
4.0026.20.17	4.0026.40.17	POW-LED green <span style="color:green">■</span>		3 x 1 W	350 mA	<40°C	30° medium	
4.0026.20.19	4.0026.40.19	POW-LED RGB <span style="color:red">■</span> <span style="color:green">■</span> <span style="color:blue">■</span>		3 x 1 W	350 mA	<40°C	30° medium	
<b>Radiation Angle homogen diffus</b>								
4.0025.20.11	4.0025.40.11	POW-LED cold white <span style="color:blue">□</span>	6.000K	1 x 1 W (100 lm/LED)	350 mA	<40°C	homogen diffus	
4.0025.20.12	4.0025.40.12	POW-LED warm white <span style="color:orange">□</span>	3.000K	1 x 1 W (80 lm/LED)	350 mA	<40°C	homogen diffus	
4.0025.20.13	4.0025.40.13	POW-LED neutral white <span style="color:grey">□</span>	4.500K	1 x 1 W (90 lm/LED)	350 mA	<40°C	homogen diffus	
4.0025.20.14	4.0025.40.14	POW-LED yellow <span style="color:yellow">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0025.20.15	4.0025.40.15	POW-LED red <span style="color:red">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0025.20.16	4.0025.40.16	POW-LED blue <span style="color:blue">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0025.20.17	4.0025.40.17	POW-LED green <span style="color:green">■</span>		1 x 1 W	350 mA	<40°C	homogen diffus	
4.0025.20.19	4.0025.40.19	1 Multichip POW-LED RGB (3 x 1 W)		3 x 1 W (total/all on)	350 mA	<40°C	homogen diffus	

## Ground mounted-Light out of 316L stainless steel with built-in pot

4.0071



## DESCRIPTION

- Spotlight, entirely made of V4A stainless steel 1.4571
- Protection class IP67
- Round or square attachment cover, made of V4A stainless steel, H3mm
- with POW-LED 3 x 1 W cold white (6000 K), neutral white (4500 K), warm white (3000K), blue; POW-LED 3 x 1 W RGB, low voltage halogen QR-CB51 ES 20 W/35 W/12 V-AC
- 360° pivotable and +/-15° adjustable
- Rotationally symmetric light distribution with POW LED white 10° and 30° and RGB 10° and 30° and for low-voltage halogen 36°
- Cable screw fixture M16
- including installation housing made of POM plastic for wall and floor installation
- Supplied with lamp and 3m of special cable
- Constant-current power source/RGB controller/external transformer

## APPLICATION

- For lighting and accentuating exterior, such as façades, buildings, trees and open spaces, installed in floor, wall or ceiling.

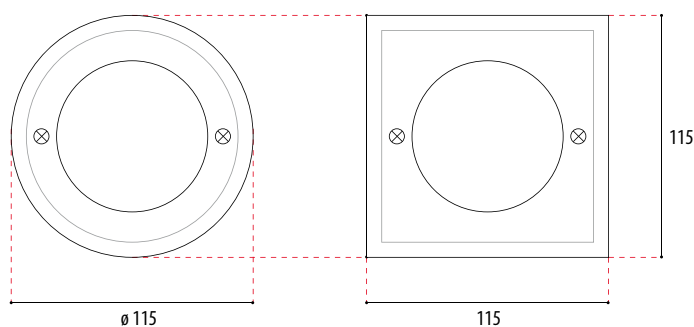
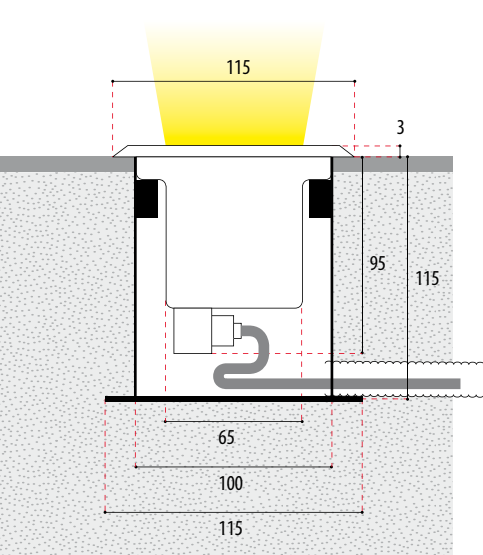
ACCESSORIES & POWER SUPPLIES  
see page 101 and 137+

## REFERENCES

- Use of the most powerful single-chip POW-LED with over 140lm/LED (TLF) at 350 mA (133lm/Watt) in light colour cold white.
- Plastic installation housing included, V4A stainless steel installation housing on request

## OPTIONS ON REQUEST

- POW-LED with beam angle spot 10°, medium 30°, medium flood 45°, flood 90° and elliptical 15x40°
- POW-LED monochrome, single colour in green, red, amber, turquoise
- Halogen OR-CB51 lamps possible in various beam angles – 10°, 24°, 36°, 60° – and various colours – blue, yellow, green, magenta, orange, red
- Matt glass lens for softer light distribution (light loss approx. -15%)
- Anti-glare grid
- 230 V version













## Ground mounted-Light out of 316L stainless steel with built-in pot

4.0071



Krauß Naturstein Massenbach, Germany

Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Temperature	Radation angle	No. >163
<b>POW-LED, Radation Angle 10°(spot)</b>								
4.0071.20.01	4.0071.40.01	POW-LED cold white 	6.000 K	3 x 1 W (140 lm/LED = total 420 lm)	350 mA	<40°C	10° spot	V32
4.0071.20.02	4.0071.40.02	POW-LED warm white 	3.000 K	3 x 1 W (110 lm/LED = total 330 lm)	350 mA	<40°C	10° spot	
4.0071.20.03	4.0071.40.03	POW-LED neutral white 	4.500 K	3 x 1 W (125 lm/LED = total 375 lm)	350 mA	<40°C	10° spot	
4.0071.20.06	4.0071.40.06	POW-LED blue 		3 x 1 W (400 mW/LED)	350 mA	<40°C	10° spot	
4.0071.20.09	4.0071.40.09	POW-LED RGB 		3 x 1 W	350 mA	<40°C	10° spot	
<b>POW-LED, Radation Angle 30° (medium)</b>								
4.0071.20.11	4.0071.40.11	POW-LED cold white 	6.000 K	3 x 1 W (140 lm/LED = total 420 lm)	350 mA	<40°C	30° medium	V33
4.0071.20.12	4.0071.40.12	POW-LED warm white 	3.000 K	3 x 1 W (110 lm/LED = total 330 lm)	350 mA	<40°C	30° medium	
4.0071.20.13	4.0071.40.13	POW-LED neutral white 	4.500 K	3 x 1 W (125 lm/LED = total 375 lm)	350 mA	<40°C	30° medium	
4.0071.20.16	4.0071.40.16	POW-LED blue 		3 x 1 W (400 mW/LED)	350 mA	<40°C	30° medium	
4.0071.20.19	4.0071.40.19	POW-LED RGB 		3 x 1 W	350 mA	<40°C	30° medium	
<b>halogen</b>								
4.0071.20.20	4.0071.40.20	QR-CBC51 (IRC) GU5,3	3.000K	20W 1.000cd	12V-AC	80°	36°	C63
4.0071.20.35	4.0071.40.35	QR-CBC51 (IRC) GU5,3	3.000K	35W 2.200cd	12V-AC	90°	36°	C73

## Ground mounted-Light out of aluminium with cardan technology

4.0061



## DESCRIPTION

- Protection system IP67
- With POW-LED, QR-CB51 or QPAR16 light source
- Made of aluminium with multi-axial cardan technology for floor and wall installation
- 360° pivotable et +/-15° adjustable
- Flush-mounted, round and square cover made of marine grade 316L stainless steel
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 1500 kg
- Light output through multi-cardan pivotable light source unit can be flexibly adjusted
- Cable gland PG11, nickel-plated brass
- Supplied with light source and silicon cable (3 m) already connected

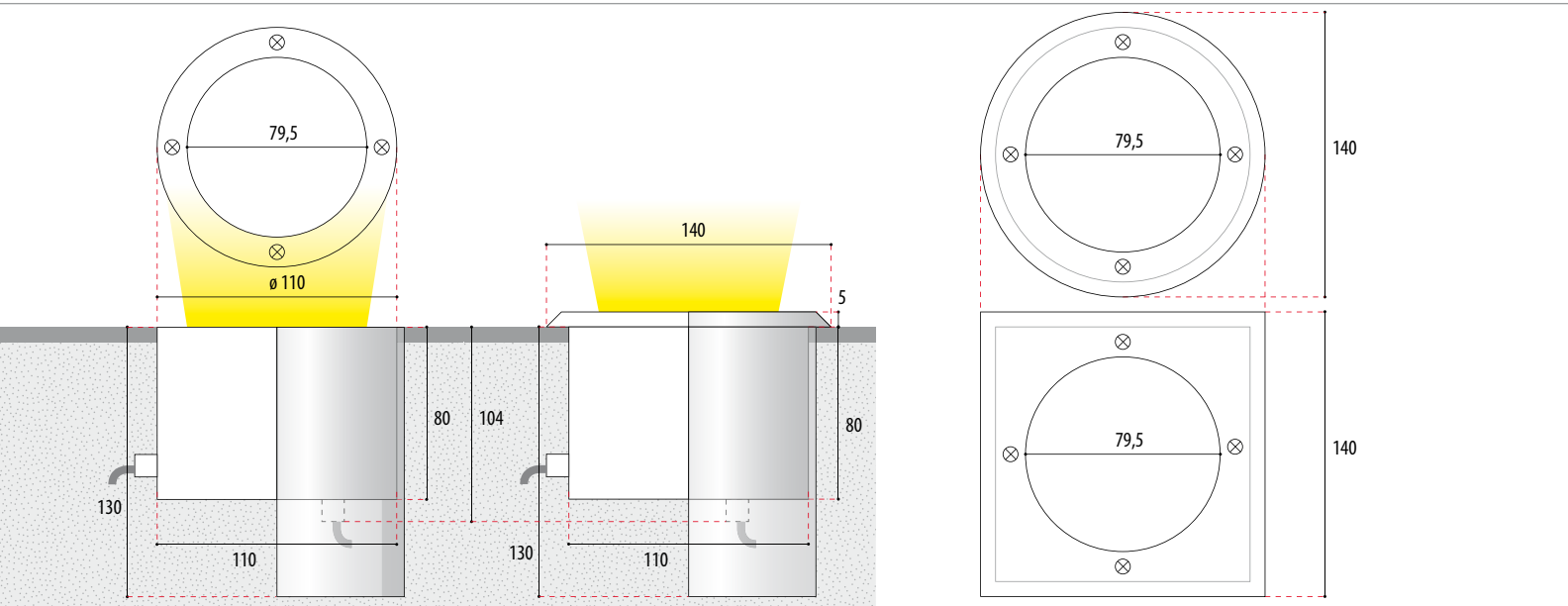
ACCESSORIES & POWER SUPPLIES  
see page 101 and 137+

## REFERENCES

- POW-LED, series-connected

## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- Radiation Angle: Halogen QR-CB51: 10°, 24°, 38°, 60°
- Aluminium installation housing available
- Special brass and bronze covers
- Coloured QR-CB51 light sources – see Accessories



Article number flush cover	Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Tempera- ture	Radation angle	No. >163
<b>POW-LED</b>										
4.0061.14.01	4.0061.24.01	4.0061.44.01	POW-LED cold white	6.000 K	3 x 1W (140 lm/LED = total 420 lm)	350 mA		<40°C	30° medium	V33
4.0061.14.02	4.0061.24.02	4.0061.44.02	POW-LED warm white	3.000 K	3 x 1W (110 lm/LED = total 330 lm)	350 mA		<40°C	30° medium	
4.0061.14.03	4.0061.24.03	4.0061.44.03	POW-LED neutral white	4.500 K	3 x 1W (125 lm/LED = total 375 lm)	350 mA		<40°C	30° medium	
4.0061.14.04	4.0061.24.04	4.0061.44.04	POW-LED yellow		3 x 1 W	350 mA		<40°C	30° medium	
4.0061.14.05	4.0061.24.05	4.0061.44.05	POW-LED red		3 x 1 W	350 mA		<40°C	30° medium	
4.0061.14.06	4.0061.24.06	4.0061.44.06	POW-LED blue		3 x 1 W	350 mA		<40°C	30° medium	
4.0061.14.07	4.0061.24.07	4.0061.44.07	POW-LED green		3 x 1 W	350 mA		<40°C	30° medium	
4.0061.14.09	4.0061.24.09	4.0061.44.09	POW-LED RGB		3 x 1 W	350 mA		<40°C	30° medium	
<b>halogen</b>										
4.0061.14.20	4.0061.24.20	4.0061.44.20	QR-CBC51	3.000K	20W	12V-AC	GU5,3	80°C	36°	C22
4.0061.14.35	4.0061.24.35	4.0061.44.35	QR-CBC51	3.000K	35W	12V-AC	GU5,3	90°C	36°	C33
4.0061.14.50	4.0061.24.50	4.0061.44.50	QR-CBC51	3.000K	50W	12V-AC	GU5,3	105°C	36°	C43
4.0061.14.51	4.0061.24.51	4.0061.44.51	QPAR16		35W	230V	GU10	90°C	35°	G11

# Ground mounted-Light power supplies & Accessories – 4.0010/11 · 4.0025/26 · 4.0061 · 4.0071

Spotlight ↓	Power supplies					Accessories		Spotlight ↓	Power supplies					Accessories	
	5.0635.00.03 Power supply – for max. 3 POW-LED 1 W, 350 mA, IP20 – see page 138								5.0635.00.03 Power supply – for max. 3 POW-LED 1 W, 350 mA, IP20 – see page 138						
	5.0635.00.10 Power supply – for max. 6 POW-LED 1 W, 350 mA, IP20 – see page 138								5.0635.00.10 Power supply – for max. 6 POW-LED 1 W, 350 mA, IP20 – see page 138						
	5.0635.00.20 Power supply – for max. 12 POW-LED 1 W, 350 mA, IP20 – see page 138								5.0635.00.20 Power supply – for max. 12 POW-LED 1 W, 350 mA, IP20 – see page 138						
	5.0635.09.16 RGB-Controller – for max. 12 POW-LED 1 W RGB, 350 mA, IP65 – see page 140								5.0635.09.16 RGB-Controller – for max. 12 POW-LED 1 W RGB, 350 mA, IP65 – see page 140						
	5.0635.09.50 RGB-Controller – for max. 36 POW-LED 1 W RGB, 350 mA, IP65 – see page 140								5.0635.09.50 RGB-Controller – for max. 36 POW-LED 1 W RGB, 350 mA, IP65 – see page 140						
	5.0098.00.00 Transformer – 1 x 50 W, 50 VA, 12 V-AC – see page 143								5.0098.00.00 Transformer – 1 x 50 W, 50 VA, 12 V-AC – see page 143						
	4.0071.00.20 glass disc, frosted – for softer light distribution (light loss approx. -15%)								4.0071.00.20 glass disc, frosted – for softer light distribution (light loss approx. -15%)						
	4.0071.00.50 anti-glare louver – black								4.0071.00.50 anti-glare louver – black						
	4.0061.14-24-44.01								4.0061.14-24-44.01						
	4.0061.14-24-44.02								4.0061.14-24-44.02						
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	4.0071.20-40.35								4.0071.20-40.35						

## Ground mounted-Light out of 316L stainless steel

4.0197



## DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel with POW-LED light source
- Flush-mounted, round and square cover made of marine grade 316L stainless steel
- Rotation-symmetric light distribution
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 1500 kg
- Cable gland PG13,5, nickel-plated brass

## APPLICATION

- For illumination and accent lighting for buildings, facades, outdoor facilities and trees

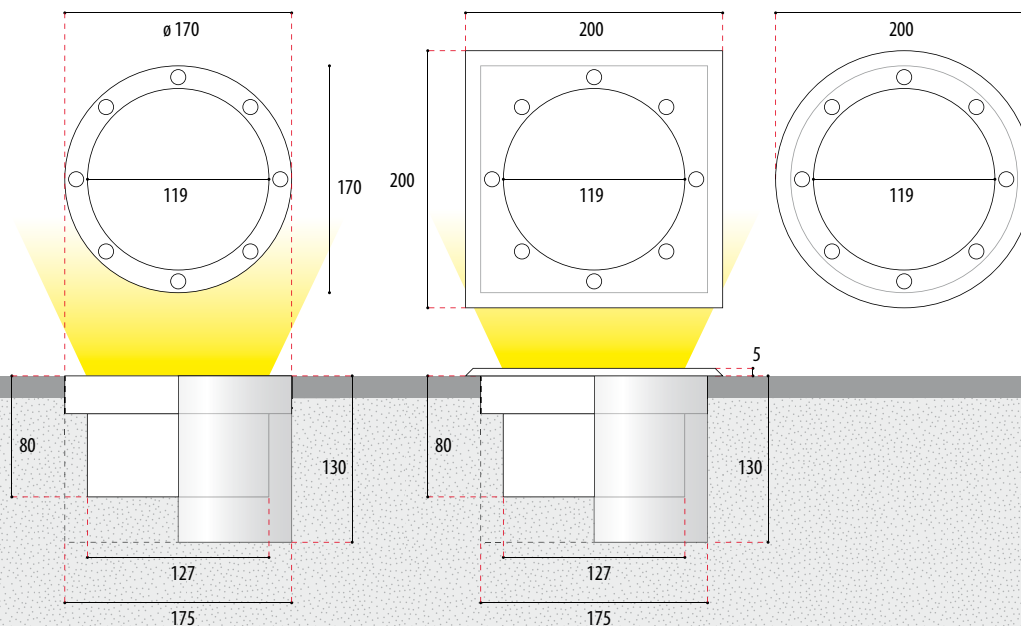
ACCESSORIES & POWER SUPPLIES  
see page 105 and 137+

## REFERENCES

- POW-LED, series-connected

## OPTIONS ON REQUEST

- The installation housing can be supplied as an option (4.0197.10.95)
- Protection system IP68 (fully ready for operation
- with light source and cables)
- Matt glass lens for softer light distribution (light loss approx. -15%)



Article number flush cover	Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Tempe- rature	Radation angle	No. >163
4.0197.10.01	4.0197.20.01	4.0197.40.01	POW-LED cold white <input type="checkbox"/>	6.000K	12 x 1 W (140 lm/LED = total 1680 lm)	350 mA	Klemme	<40°C	30°	V23
4.0197.10.02	4.0197.20.02	4.0197.40.02	POW-LED warm white <input type="checkbox"/>	3.000K	12 x 1 W (100 lm/LED = total 1200 lm)	350 mA	Klemme	<40°C	30°	
4.0197.10.03	4.0197.20.03	4.0197.40.03	POW-LED neutral white <input type="checkbox"/>	4.500K	12 x 1 W (110 lm/LED = total 1320 lm)	350 mA	Klemme	<40°C	30°	
4.0197.10.09	4.0197.20.09	4.0197.40.09	POW-LED RGB <input type="checkbox"/>		12 x 1 W	350 mA	Klemme	<40°C	30°	



## Ground mounted-Light out of 316L stainless steel

4.0198



## DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel for TC, HIT-TC, halogen or POW-LED light source
- Flush-mounted, round and square cover made of marine grade 316L stainless steel
- Rotation-symmetric light distribution
- HIT-TC, QR-CB51 and POW-LED 360° pivotable et +/-15° adjustable
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 1500 kg
- Cable gland PG13,5, nickel-plated brass

## APPLICATION

- For illumination and accent lighting for buildings, facades, outdoor facilities and trees

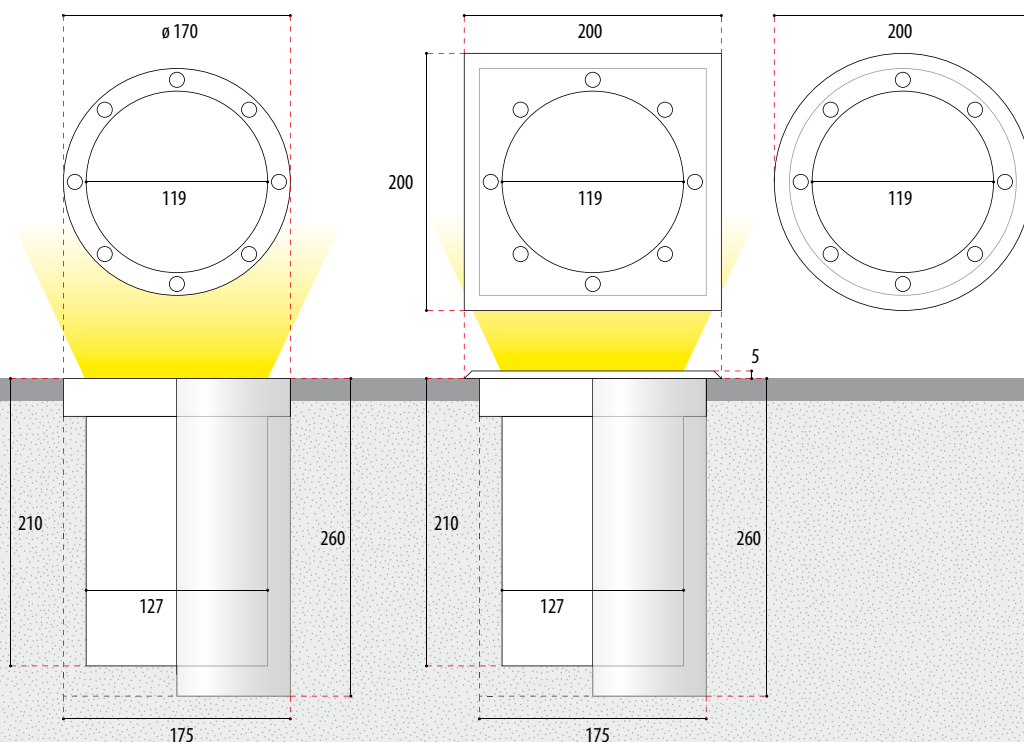
ACCESSORIES & POWER SUPPLIES  
see page 105 and 137+

## REFERENCES

- POW-LED, series-connected
- POW-LED white with integrated power supply

## OPTIONS ON REQUEST

- The installation housing can be supplied as an option (4.0198.10.95)
- Protection system IP68 (fully ready for operation with light source and cables)
- Matt glass lens for softer light distribution (light loss approx. -15%)



Article number flush cover	Article number circular cover	Article number squared cover	Lamps	Light colour	Wattage (TLF)	Tension	Socket	Temperature	Radiation angle	No. >163
4.0198.10.01	4.0198.20.01	4.0198.40.01	POW-LED cold white <input type="checkbox"/>	6.000K	12 x 1W (140 lm/LED = total 1680 lm)	230V	Klemme	<40°C	30°	V23
4.0198.10.02	4.0198.20.02	4.0198.40.02	POW-LED warm white <input type="checkbox"/>	3.000K	12 x 1W (100 lm/LED = total 1200 lm)	230V	Klemme	<40°C	30°	
4.0198.10.03	4.0198.20.03	4.0198.40.03	POW-LED neutral white <input type="checkbox"/>	4.500K	12 x 1W (110 lm/LED = total 1320 lm)	230V	Klemme	<40°C	30°	
4.0198.10.09	4.0198.20.09	4.0198.40.09	POW-LED RGB <input type="checkbox"/>		12 x 1 W	350 mA	Klemme	<40°C	30°	
4.0198.10.26	4.0198.20.26	4.0198.40.26	TC-TEL		18W	230V	GX24q-2	<55°C	100° flood	T20
4.0198.10.50	4.0198.20.50	4.0198.40.50	QR-CB51 (IRC)	3.000K	50W	12V-AC	GU5,3	<100°C	36°	C83
4.0198.12.20	4.0198.22.20	4.0198.42.20	HIT-TC-CE		20W	230V	G8,5	<55°C	7° superspot	M18
4.0198.12.35	4.0198.22.35	4.0198.42.35	HIT-TC-CE		35W	230V	G8,5	<75°C	7° superspot	M19
4.0198.13.20	4.0198.23.20	4.0198.43.20	HIT-TC-CE		20W	230V	G8,5	<55°C	15° spot	M30
4.0198.13.35	4.0198.23.35	4.0198.43.35	HIT-TC-CE		35W	230V	G8,5	<75°C	15° spot	M31
4.0198.16.20	4.0198.26.20	4.0198.46.20	HIT-TC-CE		20W	230V	G8,5	<55°C	35° medium	M20
4.0198.16.35	4.0198.26.35	4.0198.46.35	HIT-TC-CE		35W	230V	G8,5	<75°C	35° medium	M21
4.0198.17.20	4.0198.27.20	4.0198.47.20	HIT-TC-CE		20W	230V	G8,5	<55°C	55° flood	M32
4.0198.17.35	4.0198.27.35	4.0198.47.35	HIT-TC-CE		35W	230V	G8,5	<75°C	55° flood	M33



# Ground mounted-Light power supplies & Accessories – 4.0197 · 4.0198

	5.0635.00.20 Power supply – for max. 12 POW-LED 1 W, 350 mA, IP20 – see page 138	5.0635.00.36 Power supply – for max. 3 x 12 POW-LED 1 W, 350 mA, IP65 – see page 138	5.0635.09.16 RGB-Controller – for max. 12 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	5.0635.09.50 RGB-Controller – for max. 36 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	5.0098.00.00 Transformer – 1 x 50 W, 50 VA, 12 V-AC – see page 143	4.0003.01.01 anti-glare louver – black	4.0004.00.13 double cable gland – PG13,5, brass	4.0066.01.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.0066.02.00 Anti-skid coating	4.0197.10.95 Installation housing out of 316L stainless steel	4.0198.10.95 Installation housing out of 316L stainless steel	4.0232.04.00 colour filter, dichroitic – yellow	4.0232.05.00 colour filter, dichroitic – red	4.0232.06.00 colour filter, dichroitic – blue	4.0232.07.00 colour filter, dichroitic – green
Spotlight ↓	Power supplies					Accessories									
4.0197.10-20-40.01	●	●						●	●	●					
4.0197.10-20-40.02	●	●						●	●	●					
4.0197.10-20-40.03	●	●						●	●	●					
4.0197.10-20-40.09			●	●				●	●	●					
4.0197.10-20-40.15							●	●	●	●					
4.0198.10-20-40.01						●	●	●	●		●				
4.0198.10-20-40.02	integrated					●	●	●	●		●				
4.0198.10-20-40.03						●	●	●	●		●				
4.0198.10-20-40.09						●	●	●	●		●				
4.0198.10-20-40.26						●	●	●	●		●				
4.0198.10-20-40.50					●	●	●	●	●		●				
4.0198.12-22-42.20						●	●	●	●		●	●		●	●
4.0198.12-22-42.35						●	●	●	●		●	●	●	●	●
4.0198.13-23-43.20						●	●	●	●		●	●	●	●	●
4.0198.13-23-43.35						●	●	●	●		●	●	●	●	●
4.0198.16-26-46.20						●	●	●	●		●	●	●	●	●
4.0198.16-26-46.35						●	●	●	●		●	●	●	●	●
4.0198.17-27-47.20						●	●	●	●		●	●	●	●	●
4.0198.17-27-47.35						●	●	●	●		●	●	●	●	●

# Linear Ground mounted-Light, length 225/245 mm

## 4.3030



### DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel for TC-SEL, POW-LED, SMD-LED-light sources (ballast device/power supply fitted on SMD-LED single colour, POW-LED single colour, TC-SEL light sources)
- Flush-mounted or rectangular cover made of marine grade 316L stainless steel
- Linear light distribution, symmetrical/asymmetrical TC-SEL, +/- 15° adjustable POW-LED, SMD-LED with diffus glass as an orientation lamp
- Cable gland PG11, marine grade 316L stainless steel
- Installation housing available as an option
- POW-LED-Platine temperatur control (NTC)
- Supplied with light source and silicon cable

### ACCESSORIES & POWER SUPPLIES

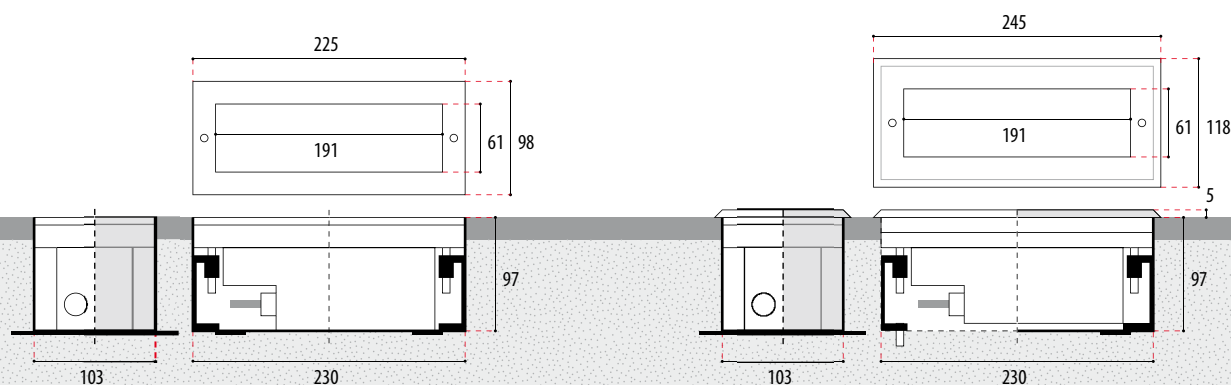
see page 111 and 137+

### REFERENCES

- Glass surface temperature below 75° (Cool Contact)
- Special designs and customer-specific equipment available on request
- For recessing into a hollow wall or floor without built in pot (mounting-SET on request possible)

### OPTIONS ON REQUEST

- Radation Angle: POW-LED: 10°, 30°, 45°
- SMD-LED RGB available



Article number flush cover	Article number rectangular cover	Lamps	Light colour	Wattage	Tension	Radation angle	Tempe- rature	No. >163	
<b>TC-SEL</b>									
4.3030.10.07	4.3030.40.07	TC-SEL	2.700K	7W/9W	230V	symmetrisch	<55°C	T30	
4.3030.11.07	4.3030.41.07	TC-SEL	2.700K	7W/9W	230V	asymmetrisch	<55°C	T30	
<b>POW-LED, Radation Angle 30° (medium)</b>									
4.3030.10.11	4.3030.40.11	POW-LED cold white <input type="checkbox"/>	6.000K	6 x 1 W (140 lm/LED = total 840 lm)	230V	30°	<55°C	V60	
4.3030.10.12	4.3030.40.12	POW-LED warm white <input type="checkbox"/>	3.000K	6 x 1 W (100 lm/LED = total 600 lm)	230V	30°	<55°C		
4.3030.10.13	4.3030.40.13	POW-LED neutral white <input type="checkbox"/>	4.500K	6 x 1 W (110 lm/LED = total 660 lm)	230V	30°	<55°C		
4.3030.10.19	4.3030.40.19	POW-LED RGB <input type="checkbox"/>		6 x 1 W	350 mA	30°	<55°C		
<b>SMD-LED</b>									
4.3030.10.01	4.3030.40.01	SMD-LED cold white <input type="checkbox"/>	6.500K	3 W	230V	diffus	<40°C		
4.3030.10.02	4.3030.40.02	SMD-LED warm white <input type="checkbox"/>	3.000K	3 W	230V	diffus	<40°C		
4.3030.10.03	4.3030.40.03	SMD-LED neutral white <input type="checkbox"/>	4.000K	3 W	230V	diffus	<40°C		
<b>installation housing</b>									
4.3030.00.00	4.3030.00.00	Installation housing out of 316L stainless steel with 2 terminating elements							

## Linear Ground mounted-Light, length 605/625 mm

4.3060

## DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel for T16, POW-LED, SMD-LED-light sources (ballast device/power supply fitted on T16, SMD-LED single colour and POW-LED single colour light sources)
- Flush-mounted or rectangular cover made of marine grade 316L stainless steel
- Linear light distribution, symmetrical/asymmetrical T16, +/- 15° adjustable POW-LED, SMD-LED with diffus glass as an orientation lamp
- Cable gland PG11, marine grade 316L stainless steel
- Installation housing available as an option, with option for linear connection to an expansion housing (only in conjunction with a flush-mounted cover)
- POW-LED-Platine temperatur control (NTC)
- Supplied with light source, silicon cable and connection box

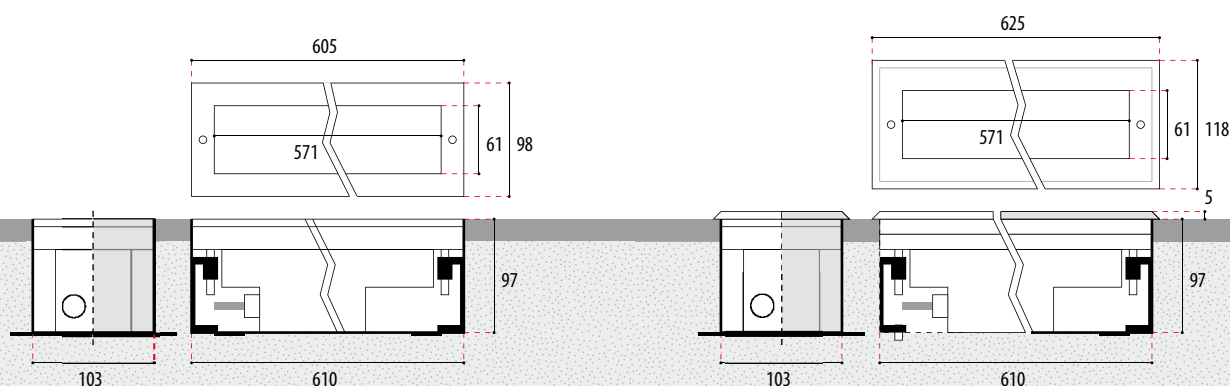
ACCESSORIES & POWER SUPPLIES  
see page 111 and 137+

## REFERENCES

- Glass surface temperature below 75° (Cool Contact)
- Special designs and customer-specific equipment available on request
- For recessing into a hollow wall or floor without built in pot (mounting-SET on request possible)

## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- T5 Coloured light sources available
- SMD-LED RGB available



Article number flush cover	Article number rectangular cover	Lamps	Light colour	Wattage	Tension	Radiation angle	Temperature	No. >163	
<b>T16</b>									
4.3060.10.07	4.3060.40.07	T16	2.700K	24W	230V	symmetrisch	<55°C	T31	
4.3060.11.07	4.3060.41.07	T16	2.700K	24W	230V	asymmetrisch	<55°C	T31	
<b>POW-LED, Radiation Angle 30° (medium)</b>									
4.3060.10.11	4.3060.40.11	POW-LED cold white	6.000K	18 x 1 W (140 lm/LED = total 2520 lm)	230V	30°	<55°C	V61	
4.3060.10.12	4.3060.40.12	POW-LED warm white	3.000K	18 x 1 W (100 lm/LED = total 1800 lm)	230V	30°	<55°C		
4.3060.10.13	4.3060.40.13	POW-LED neutral white	4.500K	18 x 1 W (110 lm/LED = total 1980 lm)	230V	30°	<55°C		
4.3060.10.19	4.3060.40.19	POW-LED RGB		18 x 1 W	350 mA	30°	<55°C		
<b>SMD-LED</b>									
4.3060.10.01	4.3060.40.01	SMD-LED cold white	6.500K	5 W	230V	diffus	<40°C		
4.3060.10.02	4.3060.40.02	SMD-LED warm white	3.000K	5 W	230V	diffus	<40°C		
4.3060.10.03	4.3060.40.03	SMD-LED neutral white	4.000K	5 W	230V	diffus	<40°C		
<b>installation housing</b>									
4.3060.00.00	4.3060.00.00	Installation housing out of 316L stainless steel with 2 terminating elements							
4.3060.01.00		Extension housing out of 316L stainless steel with 2 junction elements							

## Linear Ground mounted-Light, length 905/925 mm

4.3090

## DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel for T16, POW-LED, SMD-LED-light sources (ballast device/power supply fitted on T16, SMD-LED single colour and POW-LED single colour light sources)
- Flush-mounted or rectangular cover made of marine grade 316L stainless steel
- Linear light distribution, symmetrical/asymmetrical T16, +/- 15° adjustable POW-LED, SMD-LED with diffus glass as an orientation lamp
- Cable gland PG11, marine grade 316L stainless steel
- Installation housing available as an option, with option for linear connection to an expansion housing (only in conjunction with a flush-mounted cover)
- POW-LED-Platine temperatur control (NTC)
- Supplied with light source, silicon cable and connection box

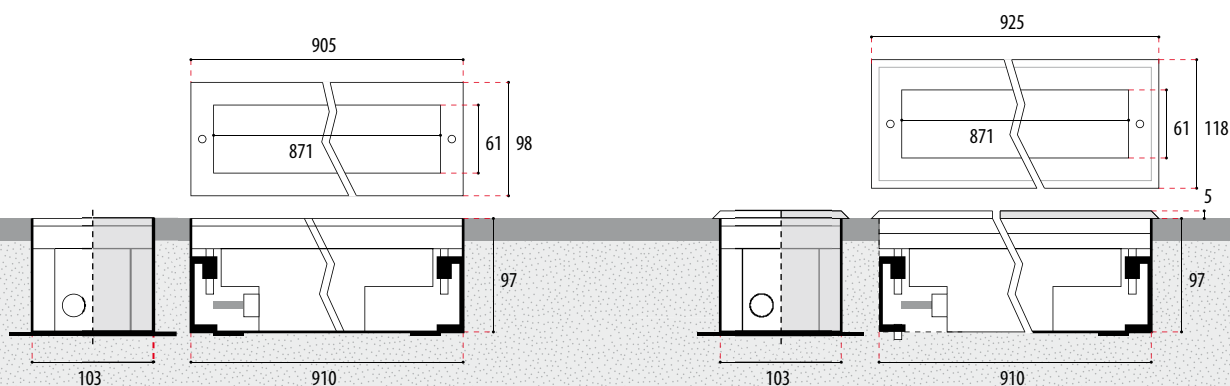
ACCESSORIES & POWER SUPPLIES  
see page 111 and 137+

## REFERENCES

- Glass surface temperature below 75° (Cool Contact)
- Special designs and customer-specific equipment available on request
- For recessing into a hollow wall or floor without built in pot (mounting-SET on request possible)

## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- T5 Coloured light sources available
- SMD-LED RGB available



Article number flush cover	Article number rectangular cover	Lamps	Light colour	Wattage	Tension	Radation angle	Temperature	No. >163	
<b>T16</b>									
4.3090.10.39	4.3090.40.39	T16	2.700K	39W	230V	symmetrisch	<75°C	T32	
4.3090.11.39	4.3090.41.39	T16	2.700K	39W	230V	asymmetrisch	<75°C	T32	
<b>POW-LED, Radation Angle 30° (medium)</b>									
4.3090.10.11	4.3090.40.11	POW-LED cold white <input type="checkbox"/>	6.000K	27 x 1 W (140 lm/LED = total 3780 lm)	230V	30°	<55°C	V62	
4.3090.10.12	4.3090.40.12	POW-LED warm white <input type="checkbox"/>	3.000K	27 x 1 W (100 lm/LED = total 2700 lm)	230V	30°	<55°C		
4.3090.10.13	4.3090.40.13	POW-LED neutral white <input type="checkbox"/>	4.500K	27 x 1 W (110 lm/LED = total 2970 lm)	230V	30°	<55°C		
4.3090.10.19	4.3090.40.19	POW-LED RGB <input type="checkbox"/>		27 x 1 W	350 mA	30°	<55°C		
<b>SMD-LED</b>									
4.3090.10.01	4.3090.40.01	SMD-LED cold white <input type="checkbox"/>	6.500K	7 W	230V	diffus	<40°C		
4.3090.10.02	4.3090.40.02	SMD-LED warm white <input type="checkbox"/>	3.000K	7 W	230V	diffus	<40°C		
4.3090.10.03	4.3090.40.03	SMD-LED neutral white <input type="checkbox"/>	4.000K	7 W	230V	diffus	<40°C		
<b>installation housing</b>									
4.3090.00.00	4.3090.00.00	Installation housing out of 316L stainless steel with 2 terminating elements							
4.3090.01.00		Extension housing out of 316L stainless steel with 2 junction elements							

## Linear Ground mounted-Light, length 1205/1225 mm

4.3012



## DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel for T16, POW-LED, SMD-LED-light sources (ballast device/power supply fitted on T16, SMD-LED single colour and POW-LED single colour light sources)
- Flush-mounted or rectangular cover made of marine grade 316L stainless steel
- Linear light distribution, symmetrical/asymmetrical T16, +/- 15° adjustable POW-LED, SMD-LED with diffus glass as an orientation lamp
- Cable gland PG11, marine grade 316L stainless steel
- Installation housing available as an option, with option for linear connection to an expansion housing (only in conjunction with a flush-mounted cover)
- POW-LED-Platine temperatur control (NTC)
- Supplied with light source, silicon cable and connection box

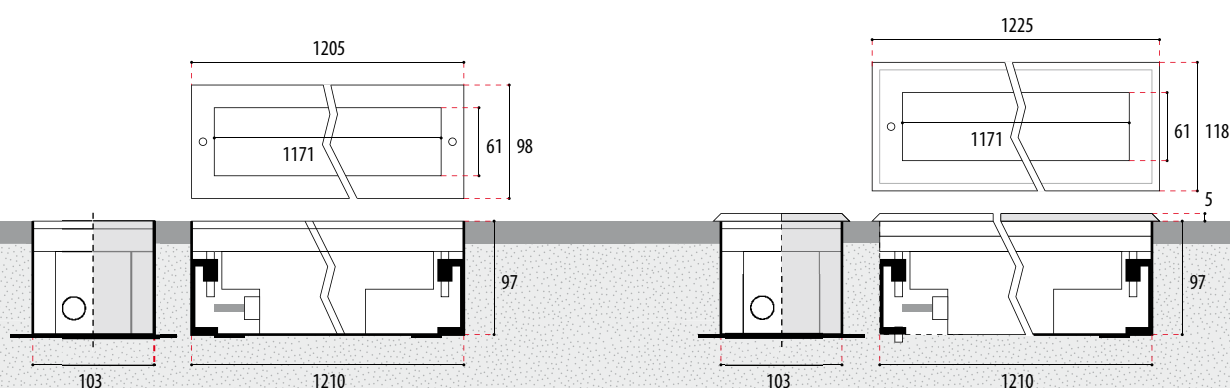
ACCESSORIES & POWER SUPPLIES  
see page 111 and 137+

## REFERENCES

- Glass surface temperature below 75° (Cool Contact)
- Special designs and customer-specific equipment available on request
- For recessing into a hollow wall or floor without built in pot (mounting-SET on request possible)

## OPTIONS ON REQUEST

- Radiation Angle: POW-LED: 10°, 30°, 45°
- T5 Coloured light sources available
- SMD-LED RGB available



Article number flush cover	Article number rectangular cover	Lamps	Light colour	Wattage	Tension	Radation angle	Temperature	No. >163	
<b>T16</b>									
4.3012.10.54	4.3012.40.54	T16	2.700K	54W	230V	symmetrisch	<75°C	T33	
4.3012.11.54	4.3012.41.54	T16	2.700K	54W	230V	asymmetrisch	<75°C	T33	
<b>POW-LED, Radation Angle 30° (medium)</b>									
4.3012.10.11	4.3012.40.11	POW-LED cold white <input type="checkbox"/>	6.000K	36 x 1 W (140 lm/LED = total 5040 lm)	230V	30°	<55°C	V63	
4.3012.10.12	4.3012.40.12	POW-LED warm white <input type="checkbox"/>	3.000K	36 x 1 W (100 lm/LED = total 3600 lm)	230V	30°	<55°C		
4.3012.10.13	4.3012.40.13	POW-LED neutral white <input type="checkbox"/>	4.500K	36 x 1 W (110 lm/LED = total 3960 lm)	230V	30°	<55°C		
4.3012.10.19	4.3012.40.19	POW-LED RGB <input type="checkbox"/>		36 x 1 W	350 mA	30°	<55°C		
<b>SMD-LED</b>									
4.3012.10.01	4.3012.40.01	SMD-LED cold white <input type="checkbox"/>	6.500K	9 W	230V	diffus	<40°C		
4.3012.10.02	4.3012.40.02	SMD-LED warm white <input type="checkbox"/>	3.000K	9 W	230V	diffus	<40°C		
4.3012.10.03	4.3012.40.03	SMD-LED neutral white <input type="checkbox"/>	4.000K	9 W	230V	diffus	<40°C		
<b>installation housing</b>									
4.3012.00.00	4.3012.00.00	Installation housing out of 316L stainless steel with 2 terminating elements							
4.3012.01.00		Extension housing out of 316L stainless steel with 2 junction elements							

# Linear Ground mounted-Light, length 1205/1225 mm

## 4.3012



### DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel for T16-light sources (ballast device fitted)
- Flush-mounted or rectangular cover made of marine grade 316L stainless steel
- Linear light distribution, symmetrical/asymmetrical T16
- Cable gland PG11, marine grade 316L stainless steel
- Installation housing available as an option
- Supplied with light source, silicon cable and connection box

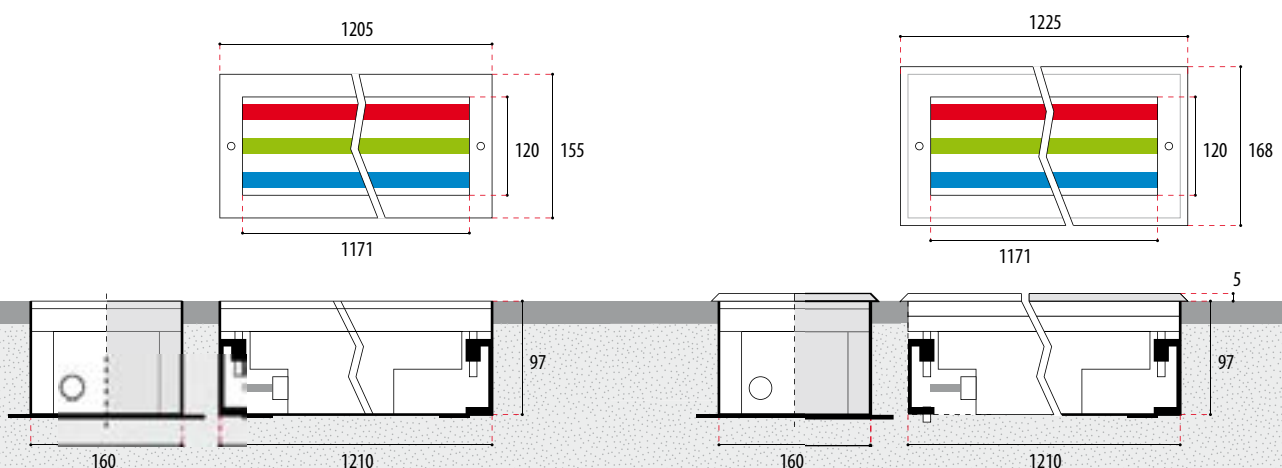
### ACCESSORIES & POWER SUPPLIES




see page 111 and 137+

### REFERENCES

- Glass surface temperature below 75° (Cool Contact)
- Special designs and customer-specific equipment available on request
- For recessing into a hollow wall or floor without built in pot (mounting-SET on request possible)

### OPTIONS ON REQUEST

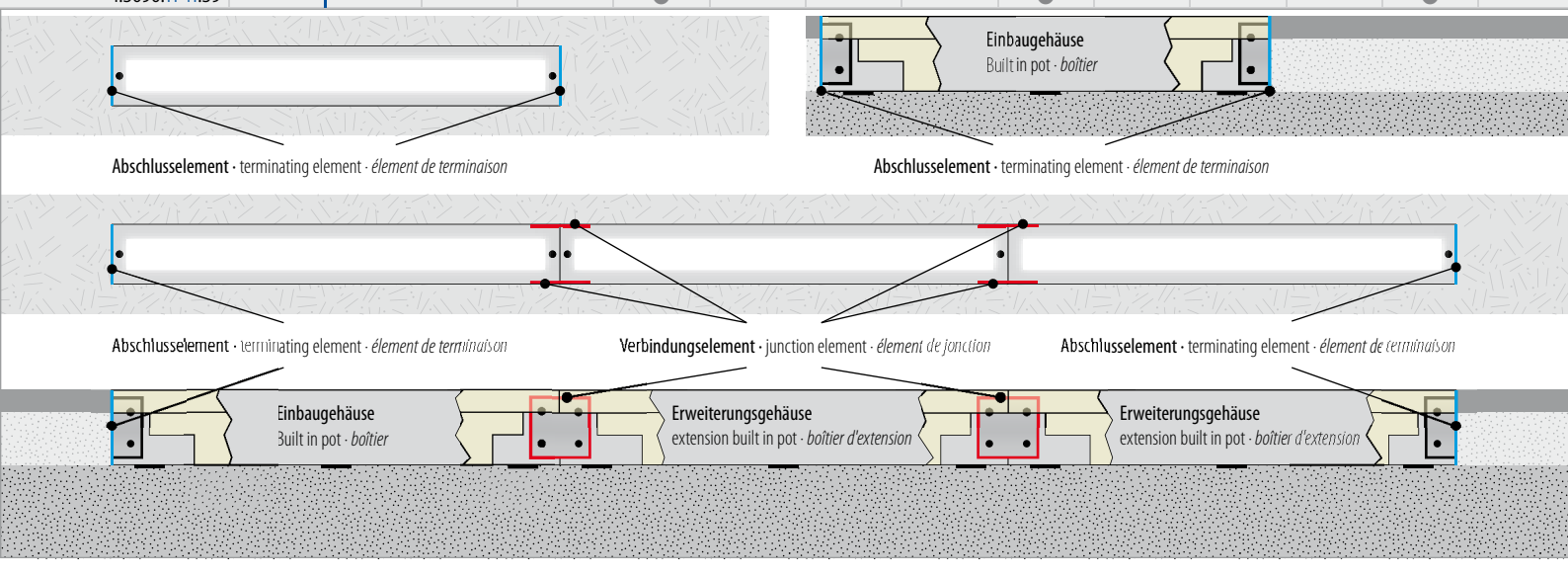


Article number flush cover	Article number rectangular cover	Lamps	Wattage	Tension	Radation angle	Temperature		
<b>T16</b>								
4.3012.10.59	4.3012.40.59	T16 RGB 	3 x 54W	230V	symmetrisch	<75°C		
4.3012.11.59	4.3012.41.59	T16 RGB 	3 x 54W	230V	asymmetrisch	<75°C		
<b>installation housing</b>								
4.3012.10.00	4.3012.10.00	Installation housing out of 316L stainless steel with 2 terminating elements						



# Linear Ground mounted-Light power supplies & Accessories – 4.3030 · 4.3060 · 4.3090 · 4.3012

	5.0635.09.50 RGB-Controller – for max. 36 POW-LED 1 W RGB, 350 mA, IP65 – see page 140	4.0003.30.12 anti-glare louver	4.0003.30.30 anti-glare louver	4.0003.30.60 anti-glare louver	4.0003.30.90 anti-glare louver	4.3012.02.00 Anti-skid coating	4.3030.02.00 Anti-skid coating	4.3060.02.00 Anti-skid coating	4.3090.02.00 Anti-skid coating	4.3012.03.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.3030.03.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.3060.03.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.3090.03.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)
Spotlight ↓	Power sup.	Accessories											
4.3012.00.00													
4.3012.01.00													
4.3012.10-40.00		●				●				●			
4.3012.10-40.01-02-03		●				●				●			
4.3012.10-40.19	●	●				●				●			
4.3012.10-40.11		●				●				●			
4.3012.10-40.12		●				●				●			
4.3012.10-40.13		●				●				●			
4.3012.10-40.54		●				●				●			
4.3012.10-40.59		●				●				●			
4.3012.11-41.54		●				●				●			
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4.3030.00.00													
4.3030.10-40.01-02-03			●				●				●		
4.3030.10-40.07			●				●				●		
4.3030.10-40.11			●				●				●		
4.3030.10-40.12			●				●				●		
4.3060.10-40.13			●				●				●		
4.3030.10-40.19	●		●				●				●		
4.3030.11-41.07			●				●				●		
4.3060.00.00													
4.3060.01.00													
4.3060.10-40.01-02-03				●			●				●		
4.3060.10-40.07				●			●				●		
4.3060.10-40.11				●			●				●		
4.3060.10-40.12				●			●				●		
4.3060.10-40.13				●			●				●		
4.3060.10-40.19	●			●			●				●		
4.3060.11-41.07				●			●				●		
4.3090.00.00													
4.3090.01.00													
4.3090.10-40.01-02-03					●		●				●		●
4.3090.10-40.11					●		●				●		●
4.3090.10-40.12					●		●				●		●
4.3090.10-40.13					●		●				●		●
4.3090.10-40.19	●				●		●				●		●
4.3090.10-40.39					●		●				●		●
4.3090.11-41.39					●		●				●		●



## Ground mounted-Light out of 316L stainless steel

4.0098



## DESCRIPTION

- Protection system IP67
- Made entirely of marine grade 316L stainless steel
- with flush-mounted cover, round or square cover or lock ring
- Reflector made of high-purity aluminium, symmetrical/asymmetrical
- Adjustable reflector: spot, flood and medium
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 5000 kg, lock ring up to 650 kg
- Cable gland PG 16/21, nickel-plated brass
- With fitted ballast device (depending on the light source)
- Supplied without light source and without cable

## APPLICATION

- Flexible lighting for varied applications including lighting of building facades, green areas and parks, outdoor facilities and many more.

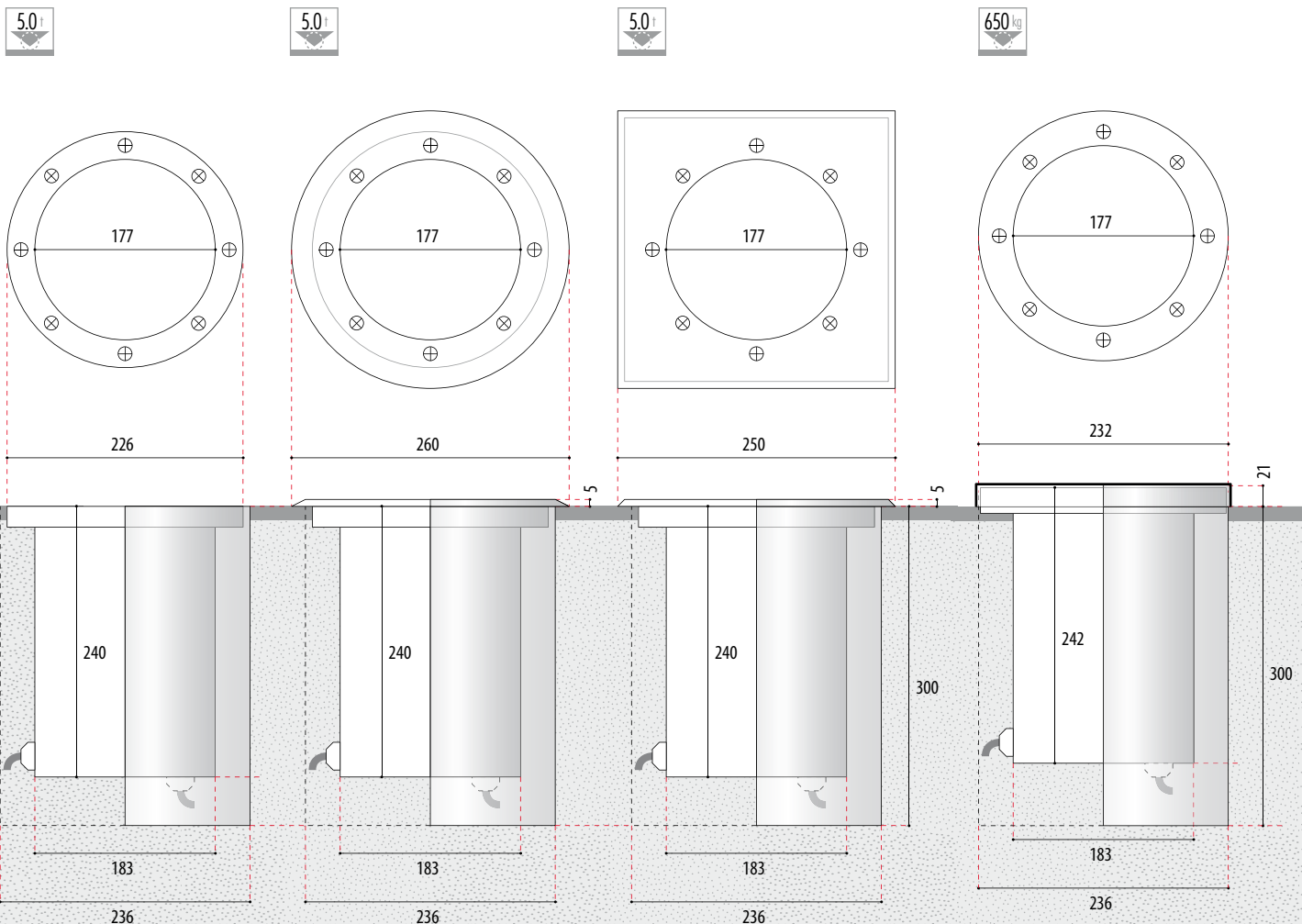
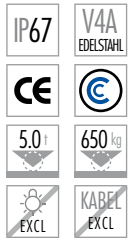
ACCESSORIES & POWER SUPPLIES  
see page 118 and 137+

## REFERENCES

- Version with POW-LED Page 114

## OPTIONS ON REQUEST

- Coloured HIT light sources available
- Protection system IP68 (fully ready for operation
- with light source and cables)
- Special brass and bronze covers
- Cable gland on floor possible
- The installation housing can be supplied as an option



## Ground mounted-Light out of 316L stainless steel

4.0098



Article number flush cover    Article number circular cover    Article number squared cover    Article number lock ring    Lamps    Wattage    Tension    Socket    Temperature    Radiation angle    



## Symmetric reflector, clear tempered glass lens

Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
4.0098.10.00	4.0098.20.00	4.0098.40.00	4.0098.00.00	QT32	max 250W	230V	E27	150°C	24°	F35
4.0098.10.15	4.0098.20.15	4.0098.40.15	4.0098.00.15	HIT-CRI	150W	230V	G12	140°C	20°	I35
4.0098.10.42	4.0098.20.42	4.0098.40.42	4.0098.00.42	TC-TEL	42W	230V	GX24q-3	<75°C	45°	T11
4.0098.10.70	4.0098.20.70	4.0098.40.70	4.0098.00.70	HIT-CRI	70W	230V	G12	110°C	19°	I33
4.0098.10.71	4.0098.20.71	4.0098.40.71	4.0098.00.71	HSE-E	70W	230V	E27	110°C	35°	R32
4.0098.10.72	4.0098.20.72	4.0098.40.72	4.0098.00.72	HIE	70W	230V	E27	110°C	42°	L31
4.0098.10.80	4.0098.20.80	4.0098.40.80	4.0098.00.80	HME	80W	230V	E27	115°C	109°	N32
4.0098.10.81	4.0098.20.81	4.0098.40.81	4.0098.00.81	HME	125 W	230V	E27	125°C	109°	N33



## Asymmetric reflector, frosted glass

Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
4.0098.11.00	4.0098.21.00	4.0098.41.00	4.0098.01.00	QT32	250W	230V	E27	150°C	30°	F45
4.0098.11.15	4.0098.21.15	4.0098.41.15	4.0098.01.15	HIT-CRI	150W	230V	G12	140°C	41°	I45
4.0098.11.70	4.0098.21.70	4.0098.41.70	4.0098.01.70	HIT-CRI	70W	230V	G12	110°C	40°	I43
4.0098.11.71	4.0098.21.71	4.0098.41.71	4.0098.01.71	HSE-E	70W	230V	E27	110°C	74°	R82
4.0098.11.80	4.0098.21.80	4.0098.41.80	4.0098.01.80	HME	80W	230V	E27	115°C	109°	N42
4.0098.11.81	4.0098.21.81	4.0098.41.81	4.0098.01.81	HME	125 W	230V	E27	125°C	109°	N33



## Adjustable reflector (+/-15°), clear glass lens, flood

Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
4.0098.12.00	4.0098.22.00	4.0098.42.00	4.0098.02.00	QT-DE12	150W	230V	R7s	100°C	80°	E51
4.0098.12.10	4.0098.22.10	4.0098.42.10	4.0098.02.10	HST-DE	150W	230V	RX7s-24	140°C	80°	Q52
4.0098.12.15	4.0098.22.15	4.0098.42.15	4.0098.02.15	HIT-DE	150W	230V	RX7s-24	140°C	80°	J53
4.0098.12.35	4.0098.22.35	4.0098.42.35	4.0098.02.35	HIT-DE-CE	35W	230V	RX7s	<75°C	80°	I91
4.0098.12.70	4.0098.22.70	4.0098.42.70	4.0098.02.70	HIT-DE	70W	230V	RX7s	110°C	80°	J51
4.0098.12.71	4.0098.22.71	4.0098.42.71	4.0098.02.71	HST-DE	70W	230V	RX7s	110°C	80°	Q51



## Adjustable reflector (+/-15°), clear glass lens, medium

Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
4.0098.16.12	4.0098.26.12	4.0098.46.12	4.0098.06.12	HST-CRI	100W	230V	GX12-1	120°C	35°	P82
4.0098.16.15	4.0098.26.15	4.0098.46.15	4.0098.06.15	HIT-CRI	150W	230V	G12	140°C	35°	I85
4.0098.16.35	4.0098.26.35	4.0098.46.35	4.0098.06.35	HIT-CRI	35W	230V	G12	<75°C	35°	I81
4.0098.16.52	4.0098.26.52	4.0098.46.52	4.0098.06.52	HST-CRI	50W	230V	GX12-1	80°C	35°	P81
4.0098.16.70	4.0098.26.70	4.0098.46.70	4.0098.06.70	HIT-CRI	70W	230V	G12	110°C	35°	I83



## Adjustable reflector (+/-15°), clear glass lens, spot

Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
4.0098.13.12	4.0098.23.12	4.0098.43.12	4.0098.03.12	HST-CRI	100W	230V	GX12-1	120°C	11°	P62
4.0098.13.15	4.0098.23.15	4.0098.43.15	4.0098.03.15	HIT-CRI	150W	230V	G12	140°C	12°	I65
4.0098.13.35	4.0098.23.35	4.0098.43.35	4.0098.03.35	HIT-CRI	35W	230V	G12	<75°C	11°	I61
4.0098.13.52	4.0098.23.52	4.0098.43.52	4.0098.03.52	HST-CRI	50W	230V	GX12-1	80°C	11°	P61
4.0098.13.70	4.0098.23.70	4.0098.43.70	4.0098.03.70	HIT-CRI	70W	230V	G12	110°C	12°	I63

## Ground mounted-Light out of 316L stainless steel

4.0304 · 4.0308 · 4.0303



## DESCRIPTION

- Protection system IP67
- Made entirely of marine grade 316L stainless steel
- with flush-mounted cover, round or square cover or lock ring
- Reflector made of high-purity aluminium, symmetrical/asymmetrical
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 5000 kg
- Cable gland PG 16/21, nickel-plated brass
- POW-LED-Platine temperatur control (NTC)
- With fitted ballast device (depending on the light source)
- Supplied without light source and without cable, POW-LED with light source and cable

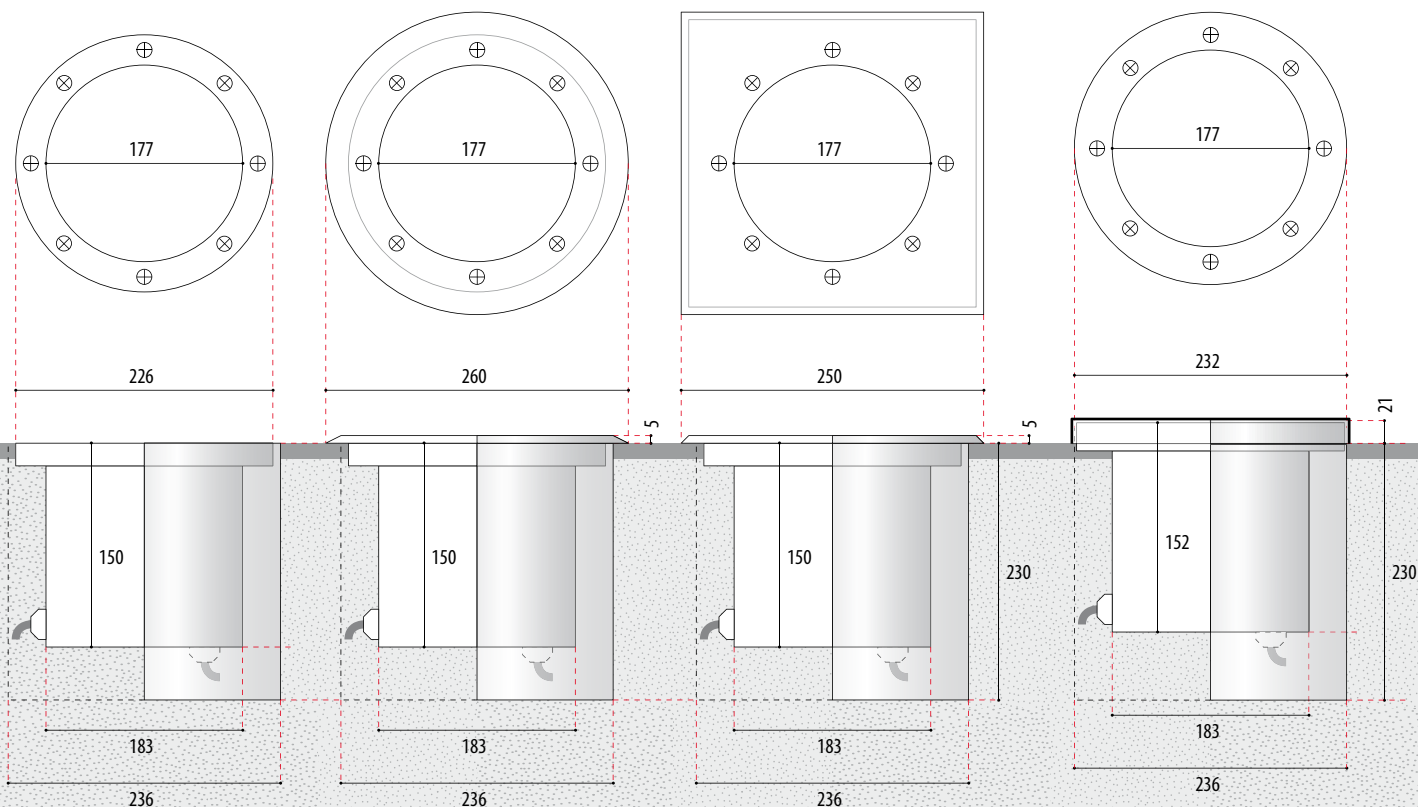
## APPLICATION

- Flexible lighting for varied applications including lighting of building facades, green areas and parks, outdoor facilities and many more.

ACCESSORIES & POWER SUPPLIES  
see page 118 and 137+

## OPTIONS ON REQUEST

- Coloured HIT light sources available
- Protection system IP68 (fully ready for operation)
- with light source and cables)
- Special brass and bronze covers
- Cable gland on floor possible
- The installation housing can be supplied as an option



# Ground mounted-Light out of 316L stainless steel

## 4.0304 · 4.0308 · 4.0303



Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Tempe- rature	Radiation angle	No. >163
<b>Symmetric reflector, clear tempered glass lens</b>										
4.0304.10.00	4.0308.20.00	4.0308.40.00	4.0303.00.00	QT32	150W	230V	E27	150°C	24°	F33
4.0304.10.35	4.0308.20.35	4.0308.40.35	4.0303.00.35	HIT-CRI	35W	230V	G12	<75°C	19°	I31
4.0304.10.50	4.0308.20.50	4.0308.40.50	4.0303.00.50	HME	50W	230V	E27	90°C	109°	N31
4.0304.10.70	4.0308.20.70	4.0308.40.70	4.0303.00.70	HIT-CRI	70W	230V	G12	110°C	19°	I33
<b>Asymmetric reflector, frosted glass</b>										
4.0304.11.00	4.0308.21.00	4.0308.41.00	4.0303.01.00	QT32	150W	230V	E27	150°C	30°	F43
4.0304.11.35	4.0308.21.35	4.0308.41.35	4.0303.01.35	HIT-CRI	35W	230V	G12	<75°C	40°	I41
4.0304.11.50	4.0308.21.50	4.0308.41.50	4.0303.01.50	HME	50W	230V	E27	90°C	109°	N41
4.0304.11.70	4.0308.21.70	4.0308.41.70	4.0303.01.70	HIT-CRI	70W	230V	G12	110°C	40°	I43
<b>Adjustable reflector lamp (+/-15°), clear glass lens, with lamp</b>										
4.0304.14.10	4.0308.24.10	4.0308.44.10	4.0303.04.10	QR111	100W	12V-AC	G53	140°C	24°	D42
4.0304.14.75	4.0308.24.75	4.0308.44.75	4.0303.04.75	QR-CBC51	75W	12V-AC	GU5,3	120°C	36°	C52
<b>POW-LED, clear tempered glass lens</b>										
4.0304.15.01	4.0308.25.01	4.0308.45.01	4.0303.05.01	POW-LED cold white <input type="checkbox"/>	36 x 1W (140 lm/LED = total 5040 lm)	350 mA	Klemme	<55°C	30°	V73
4.0304.15.02	4.0308.25.02	4.0308.45.02	4.0303.05.02	POW-LED warm white <input type="checkbox"/>	36 x 1W (100 lm/LED = total 3600 lm)	350 mA	Klemme	<55°C	30°	
4.0304.15.03	4.0308.25.03	4.0308.45.03	4.0303.05.03	POW-LED neutral white <input type="checkbox"/>	36 x 1W (110 lm/LED = total 3960 lm)	350 mA	Klemme	<55°C	30°	
4.0304.15.09	4.0308.25.09	4.0308.45.09	4.0303.05.09	POW-LED RGB <input type="checkbox"/>	36 x 1 W	350 mA	Klemme	<55°C	30°	



# Ground mounted-Light out of 316L stainless steel

## 4.0269

### DESCRIPTION

- Protection system IP67
- Made entirely of marine grade 316L stainless steel
- with flush-mounted cover, round or square cover or lock ring
- Reflector made of high-purity aluminium, symmetrical/asymmetrical
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 5000 kg
- Cable gland PG 16/21, nickel-plated brass
- Supplied without light source and without cable

### APPLICATION

- Flexible lighting for varied applications including lighting of building facades, green areas and parks, outdoor facilities and many more.

### ACCESSORIES & POWER SUPPLIES

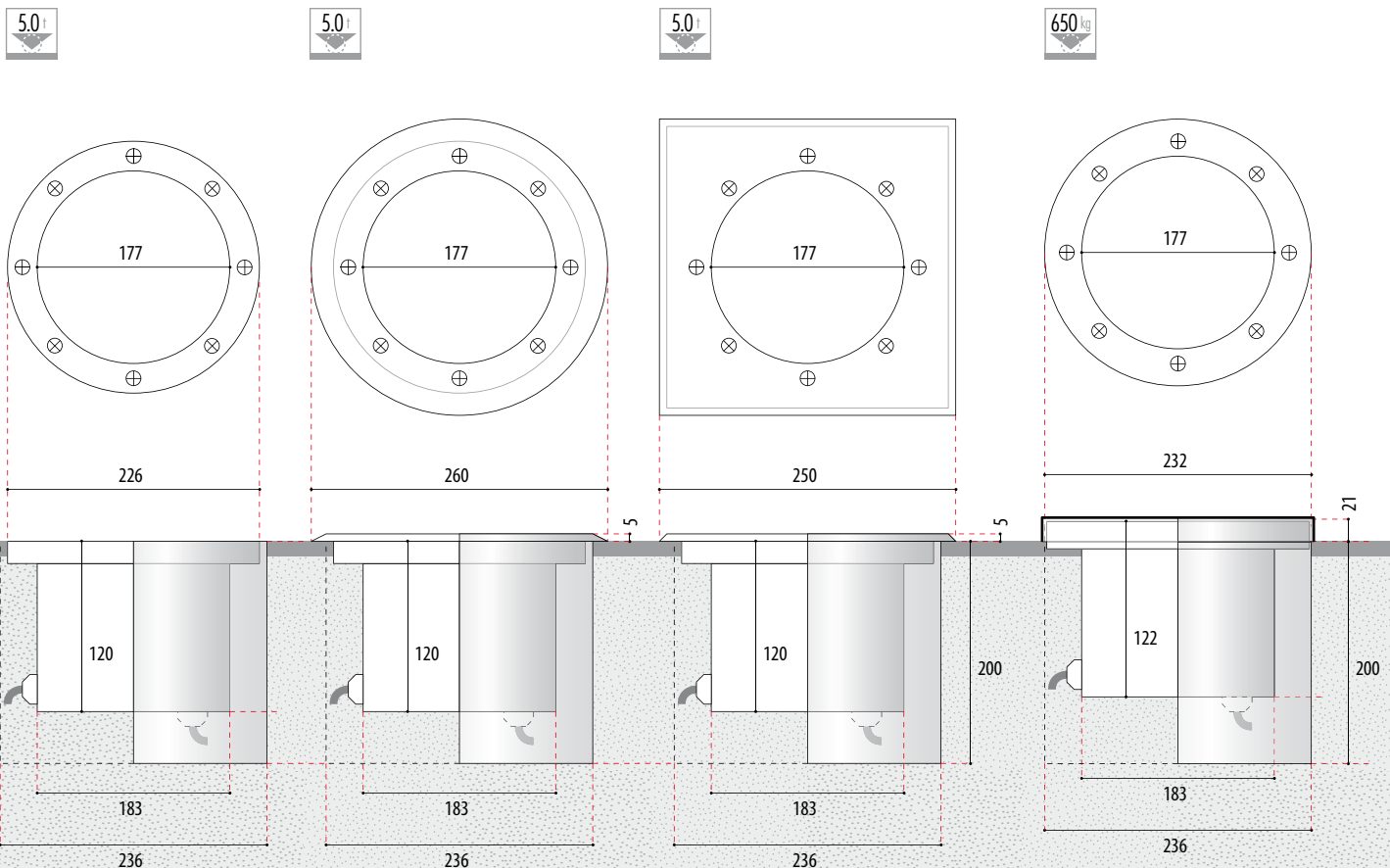
see page 118 and 137+

### REFERENCES

- Version with POW-LED Page 114

### OPTIONS ON REQUEST

- Coloured HIT light sources available
- Protection system IP68 (fully ready for operation)
- with light source and cables)
- Special brass and bronze covers
- Cable gland on floor possible
- The installation housing can be supplied as an option



## Ground mounted-Light out of 316L stainless steel

4.0269



Article number flush cover	Article number circular cover	Article number squared cover	Article number lock ring	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
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## Symmetric reflector, clear tempered glass lens

4.0269.10.00	4.0269.20.00	4.0269.40.00	4.0269.00.00	QT32	max 100W	230V	E27	150°C	24°	F33
4.0269.10.10	4.0269.20.10	4.0269.40.10	4.0269.00.10	QT12	90W	12V-AC	GY6,35	150°C	19°	B38



## Asymmetric reflector, frosted glass

4.0269.11.00	4.0269.21.00	4.0269.41.00	4.0269.01.00	QT32	max 100W	230V	E27	150°C	30°	F43
4.0269.11.10	4.0269.21.10	4.0269.41.10	4.0269.01.10	QT12	90W	12V-AC	GY6,35	150°C	31°	B48



## Adjustable reflector lamp (+/-15°), clear glass lens, with lamp

4.0269.14.75	4.0269.24.75	4.0269.44.75	4.0269.04.75	QR-CBC51	75W	12V-AC	GU5,3	120°C	36°	C52
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## Compact fluorescent lights, frosted glass for orientation

4.0269.10.07	4.0269.20.07	4.0269.40.07	4.0269.00.07	TC-S	2 x 7W	230V	G23	<55°C	60° diffus
4.0269.10.11	4.0269.20.11	4.0269.40.11	4.0269.00.11	TC-D	10W	230V	G24d-1	<55°C	60° diffus
4.0269.10.16	4.0269.20.16	4.0269.40.16	4.0269.00.16	TC-DD	16W	230V	GR10q	<55°C	60° diffus
4.0269.10.20	4.0269.20.20	4.0269.40.20	4.0269.00.20	TC-T	18W	230V	GX24d-2	<55°C	60° diffus
4.0269.10.21	4.0269.20.21	4.0269.40.21	4.0269.00.21	TC-D	13W	230V	G24d-1	<55°C	60° diffus







# Ground mounted-Lights



Catharinakapel, Harderwijk, Netherlands

# Ground mounted-Light out of 316L stainless steel, GTR-Unit

## 4.0320



### DESCRIPTION

- Protection system IP67
- Made entirely of marine grade 316L stainless steel
- with flush-mounted cover, round or square cover
- Reflector made of high-purity aluminium, symmetrical/asymmetrical
- Adjustable reflector: spot, flood and medium
- With GTR unit for reduction of the glass surface temperature
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 5000 kg
- Cable gland PG 16/21, nickel-plated brass
- With fitted ballast device (depending on the light source)
- Supplied without light source and without cable

### APPLICATION

- For lighting applications for building facades and outdoor facilities with requirements for reduced glass surface temperatures, compliant with the relevant standards

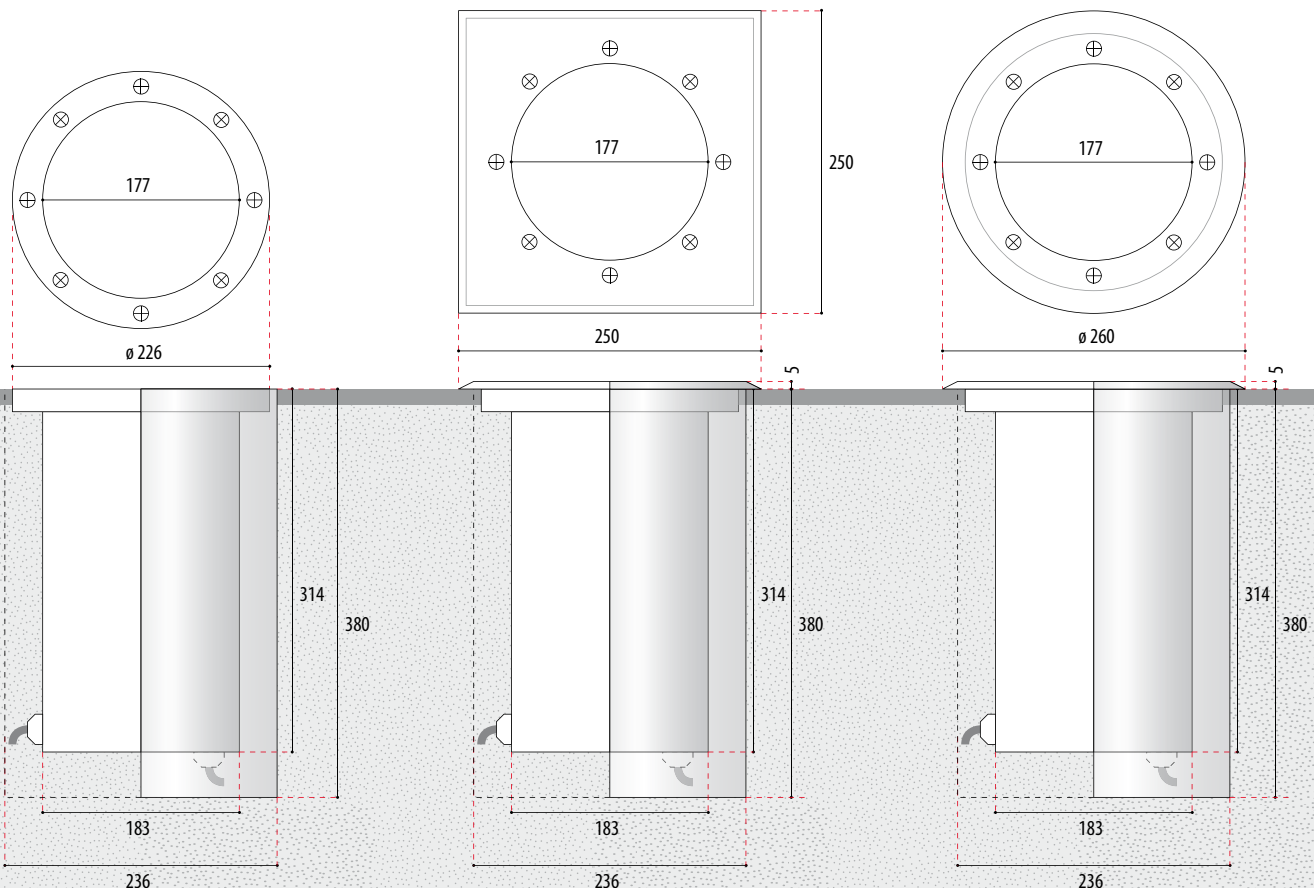
### ACCESSORIES & POWER SUPPLIES

see page 124 and 137+



### OPTIONS ON REQUEST


- Coloured HIT light sources available
- Protection system IP68 (fully ready for operation)
- with light source and cables)
- Special brass and bronze covers
- Cable gland on floor possible
- The installation housing can be supplied as an option (4.0320.10.95)



## Ground mounted-Light out of 316L stainless steel, GTR-Unit

4.0320



Article number flush cover	Article number circular cover	Article number squared cover	Lamps	Wattage	Tension	Socket	Temperature	Radation angle	
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Adjustable reflector (+/-15°), clear glass lens, flood

4.0320.12.35	4.0320.22.35	4.0320.42.35	HIT-DE-CE	35W	230V	RX7s	<40°C	80°	I91
4.0320.12.70	4.0320.22.70	4.0320.42.70	HIT-DE	70W	230V	RX7s	<68°C	80° flood	J51



Adjustable reflector (+/-15°), clear glass lens, medium

4.0320.16.15	4.0320.26.15	4.0320.46.15	HIT-CRI	150W	230V	G12	<95°C	35° medium	I85
4.0320.16.35	4.0320.26.35	4.0320.46.35	HIT-CRI	35W	230V	G12	<40°C	35° medium	I81
4.0320.16.70	4.0320.26.70	4.0320.46.70	HIT-CRI	70W	230V	G12	<68°C	35° medium	I83



Adjustable reflector (+/-15°), clear glass lens, spot

4.0320.13.15	4.0320.23.15	4.0320.43.15	HIT-CRI	150W	230V	G12	<95°C	12° spot	I65
4.0320.13.35	4.0320.23.35	4.0320.43.35	HIT-CRI	35W	230V	G12	<40°C	11° spot	I61
4.0320.13.70	4.0320.23.70	4.0320.43.70	HIT-CRI	70W	230V	G12	<68°C	12°	I63

## Ground mounted-Light out of 316L stainless steel, lock ring

4.4000



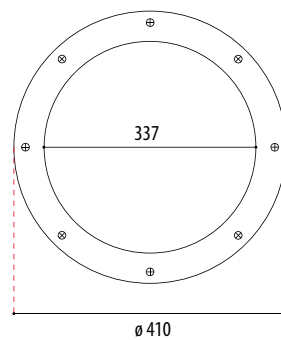
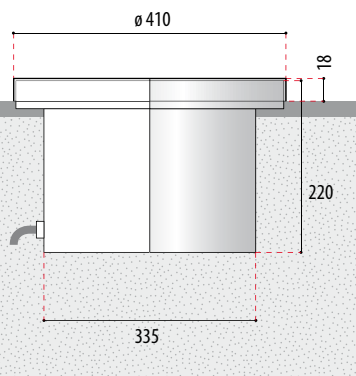
## DESCRIPTION


- Protection system IP67
- Made of marine grade 316L stainless steel
- Marine grade 316L stainless steel reflector
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 650 kg
- Cable gland PG 16/24, nickel-plated brass
- With integral ballast device
- Supplied without light source and without cable

ACCESSORIES & POWER SUPPLIES  
see page 124 and 137+

## OPTIONS ON REQUEST

- Coloured HIT light sources available
- Protection system IP68 (fully ready for operation)
- with light source and cables)
- Round attachment cover available
- special designs available



Article number	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No. >163
 Symmetric reflector, clear tempered glass lens							
4.4000.00.15	HIE	150W	230V	E27	110°C		L75
4.4000.00.71	HSE-E	50/70W	230V	E27	80°		R72
4.4000.00.80	HME	80/125W	230V	E27	100°C		N73

 Asymmetric reflector, clear tempered glass lens							
4.4000.01.15	HIE	150W	230V	E27	110°C		L85
4.4000.01.71	HSE-E	50/70W	230V	E27	80°		R82
4.4000.01.80	HME	80/125W	230V	E27	100°C		N83

## Ground mounted-Light out of 316L stainless steel, lock ring

4.4100



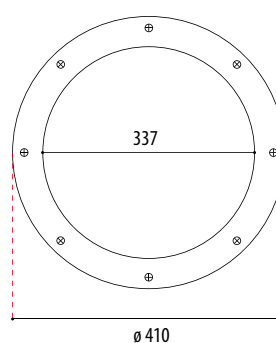
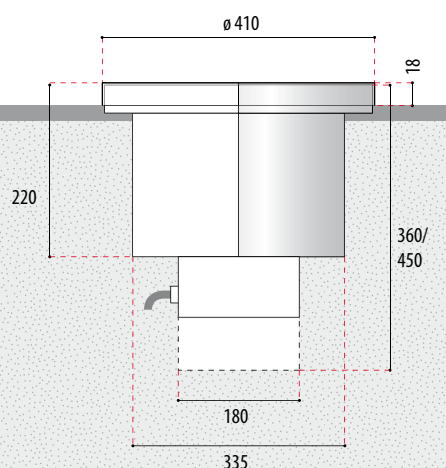
## DESCRIPTION

- Protection system IP67
- Made of marine grade 316L stainless steel
- Marine grade 316L stainless steel reflector
- Temperature-resistant silicon seal
- Toughened safety glass (ESG) – withstands loads of up to 650 kg
- Cable gland PG 16/24, nickel-plated brass
- With integral ballast device
- Supplied without light source and without cable

ACCESSORIES & POWER SUPPLIES  
see page 124 and 137+

## OPTIONS ON REQUEST

- Coloured HIT light sources available
- Protection system IP68 (fully ready for operation
- with light source and cables)
- Round attachment cover available
- special designs available
- Spot-Reflector



Article number	Lamps	Wattage	Tension	Socket	Temperature	Radiation angle	No >163
	Symmetric reflector, clear tempered glass lens						
4.4100.00.25	HIE	250W	230V	E40	160°C	80°	L76
4.4100.00.26	HSE-MF	250W	230V	E40	150°C	80°	R75
4.4100.00.27	HME	250W	230V	E40	150°C	80°	N74
4.4100.00.28	HSE-MF	150W	230V	E40	145°C		R74
4.4100.00.40	HSE-MF	400W	230V	E40	180°C	80°	R76
4.4100.00.41	HIE	400W	230V	E40	170°C	80°	L77
4.4100.00.42	HME	400W	230V	E40	170°C	80°	N75

## Asymmetric reflector, clear tempered glass lens

4.4100.01.25	HIE	250W	230V	E40	160°C	80°	L86
4.4100.01.26	HSE-MF	250W	230V	E40	150°C	80°	R85
4.4100.01.27	HME	250W	230V	E40	150°C	80°	N84
4.4100.01.28	HSE-MF	150W	230V	E40	145°C		R84
4.4100.01.40	HSE-MF	400W	230V	E40	180°C	80°	R86
4.4100.01.41	HIE	400W	230V	E40	170°C	80°	L87
4.4100.01.42	HME	400W	230V	E40	170°C	80°	N85

# Ground mounted-Light out of 316L stainless steel

## power supplies & Accessories – 4.0320 · 4.4000 · 4.4100

	4.0003.02.00 anti-glare louver – black, for adjustable Reflector	4.0004.00.00 double cable gland – PG16/21, brass	4.0008.01.00 anti-glare louver	4.0006.00.00 Termination cable gland – DK68, brass	4.0320.10.95 Installation housing out of 316L stainless steel – ø 235 x 360 mm	4.0230.41.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.0231.01.00 glass disc, frosted – for softer light distribution (light loss approx. -15%)	4.0231.02.00 rippled glass – with antiskid coating	4.0232.04.00 colour filter, dichroitic – yellow	4.0232.05.00 colour filter, dichroitic – red	4.0232.06.00 colour filter, dichroitic – blue	4.0232.07.00 colour filter, dichroitic – green
<b>Spotlight ↓</b>	<b>Accessories</b>											
4.0320.12.35	●	●		●	●		●	●	●	●	●	●
4.0320.12.70	●	●		●	●		●	●	●	●	●	●
4.0320.13.15	●	●		●	●		●	●	●	●	●	●
4.0320.13.35	●	●		●	●		●	●	●	●	●	●
4.0320.13.70	●	●		●	●		●	●	●	●	●	●
4.0320.16.15	●	●		●	●		●	●	●	●	●	●
4.0320.16.35	●	●		●	●		●	●	●	●	●	●
4.0320.16.70	●	●		●	●		●	●	●	●	●	●
4.4000.00.15		●	●	●		●						
4.4000.00.71		●	●	●		●						
4.4000.00.80		●	●	●		●						
4.4000.01.15		●	●	●		●						
4.4000.01.71		●	●	●		●						
4.4000.01.80		●	●	●		●						
4.4100.00.25		●	●	●		●						
4.4100.00.26		●	●	●		●						
4.4100.00.27		●	●	●		●						
4.4100.00.28		●	●	●		●						
4.4100.00.40		●	●	●		●						
4.4100.00.41		●	●	●		●						
4.4100.00.42		●	●	●		●						
4.4100.01.25		●	●	●		●						
4.4100.01.26		●	●	●		●						
4.4100.01.27		●	●	●		●						
4.4100.01.28		●	●	●		●						
4.4100.01.40		●	●	●		●						
4.4100.01.41		●	●	●		●						
4.4100.01.42		●	●	●		●						

# Outdoor-Floodlights



# Swinging reflector-Lights with Lexalite reflector

## 6.4300



### DESCRIPTION

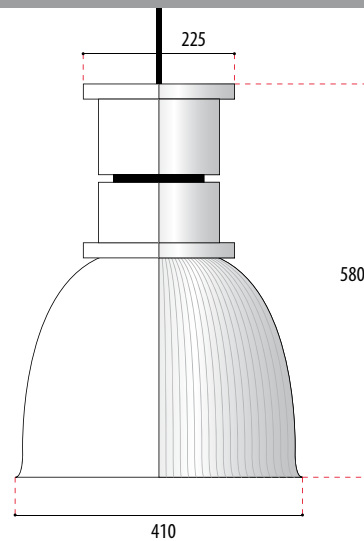
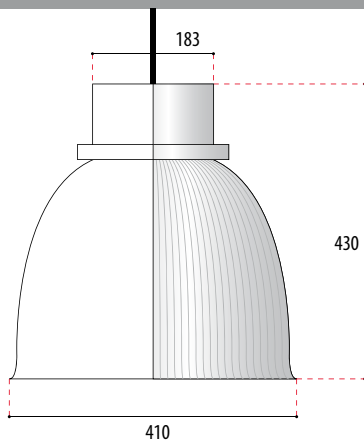
- Protection system IP54
- With transparent Lexalite reflector for inside and outside applications
- Sturdy, corrosion-proof light core made of marine grade 316L stainless steel with adjustable stainless steel wire support
- (6.4350) With separate ballast and ignitor unit, for light sources from 250 W
- Supplied with 3 m stainless steel wire, 3 m stainless steel safety chain and 4 m connecting cable H07RNF

### ACCESSORIES & POWER SUPPLIES

see page 134 and 137+



### OPTIONS ON REQUEST



Article number	Lamps	Wattage	Tension	Socket	Light-current	No >163
<b>single body</b>						
6.4300.00.15	HIE	150W	230V	E27	12.500lm	L15
6.4300.00.16	HSE-E	150W	230V	E40	14.000lm	R14
6.4300.00.42	TC-TEL	max 3 x 42W	230V	GX24q-4	3 x 3.200lm	
6.4300.00.70	HIE	70W	230V	E27	5.600lm	L11
6.4300.00.71	HSE-E	70W	230V	E27	5.600lm	R12
6.4300.00.80	HME	80/125W	230V	E27	4.000lm/6.500lm	N12
6.4300.00.85	TC-TELI	85W	230V	2G8-1	6.000lm	
<b>double body</b>						
6.4350.00.25	HIE	250W	230V	E40	19.000lm	L16
6.4350.00.26	HSE-MF	250W	230V	E40	31.000lm	R15
6.4350.00.27	HME	250W	230V	E40	14.000lm	N14
6.4350.00.40	HSE-MF	400W	230V	E40	54.000lm	R16
6.4350.00.41	HIE	400W	230V	E40	31.000lm	L17
6.4350.00.42	HME	400W	230V	E40	24.000lm	N15



# Swinging reflector-Lights with an aluminium reflector

**6.4400**



### DESCRIPTION

- Protection system IP54
- With an aluminium reflector for inside and outside applications
- Sturdy, corrosion-proof light core made of marine grade 316L stainless steel with adjustable stainless steel wire support
- (6.4450) With separate ballast and ignitor unit, for light sources from 250 W
- Supplied with 3 m stainless steel wire, 3 m stainless steel safety chain and 4 m connecting cable H07RNF

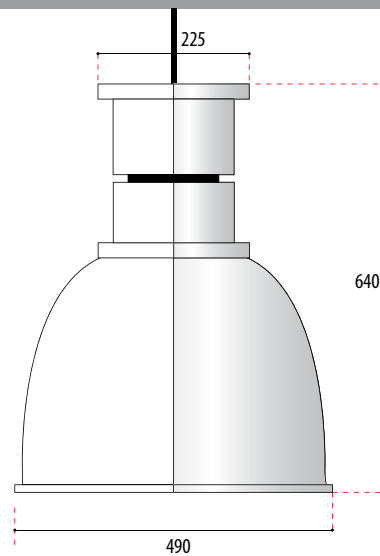
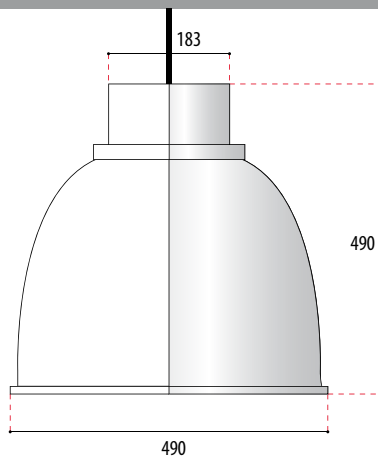
### ACCESSORIES & POWER SUPPLIES

see page 134 and 137+



### OPTIONS ON REQUEST

- Protection system IP65 possible with the available glass pane



Article number	Lamps	Wattage	Tension	Socket	Light-current	No. >163
<b>single body</b>						
6.4400.00.15	HIE	150W	230V	E27	12.500lm	L15
6.4400.00.16	HSE-E	150W	230V	E40	14.000lm	R14
6.4400.00.42	TC-TEL	max 3 x 42W	230V	GX24q-4	3 x 3.200lm	
6.4400.00.70	HIE	70W	230V	E27	5.600lm	L11
6.4400.00.71	HSE-E	70W	230V	E27	5.600lm	R12
6.4400.00.80	HME	80/125W	230V	E27	4.000lm/6.500lm	N12
6.4400.00.85	TC-TELI	85W	230V	2G8-1	6.000lm	
<b>double body</b>						
6.4450.00.25	HIE	250W	230V	E40	19.000lm	L16
6.4450.00.26	HSE-MF	250W	230V	E40	31.000lm	R15
6.4450.00.27	HME	250W	230V	E40	14.000lm	N14
6.4450.00.40	HSE-MF	400W	230V	E40	54.000lm	R16
6.4450.00.41	HIE	400W	230V	E40	31.000lm	L17
6.4450.00.42	HME	400W	230V	E40	24.000lm	N15

# Outdoor-Floodlight out of marine grade 316L stainless steel

## 4.0302



### DESCRIPTION

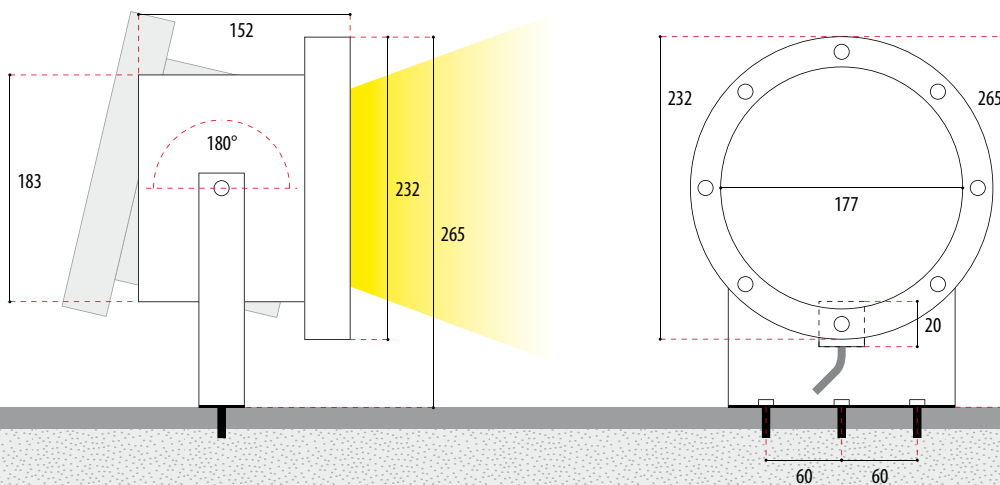
- Protection system IP67
- Made of marine grade 316L stainless steel, manufactured with an aluminium reflector
- Mounting bracket adjustable through 180°
- Temperature-resistant silicon seal
- Toughened safety glass
- Special cable gland PG 16/21, nickel-plated brass
- Ballast and Ignitor fitted depending on type

### ACCESSORIES & POWER SUPPLIES

see page 134 and 137+

### OPTIONS ON REQUEST

- Please order the double cable gland for ring assembly separately
- Protection system IP68 (fully ready for operation)
- with light source and cables)



Article number	Lamps	Wattage	Tension	Socket	Temperature	No. >163
4.0302.10.35	HIT-CRI	35W	230V	G12	<75°C	I31
4.0302.10.50	HME	50W	230V	E27	90°C	N31

# Outdoor-Floodlight out of marine grade 316L stainless steel

**4.0097**



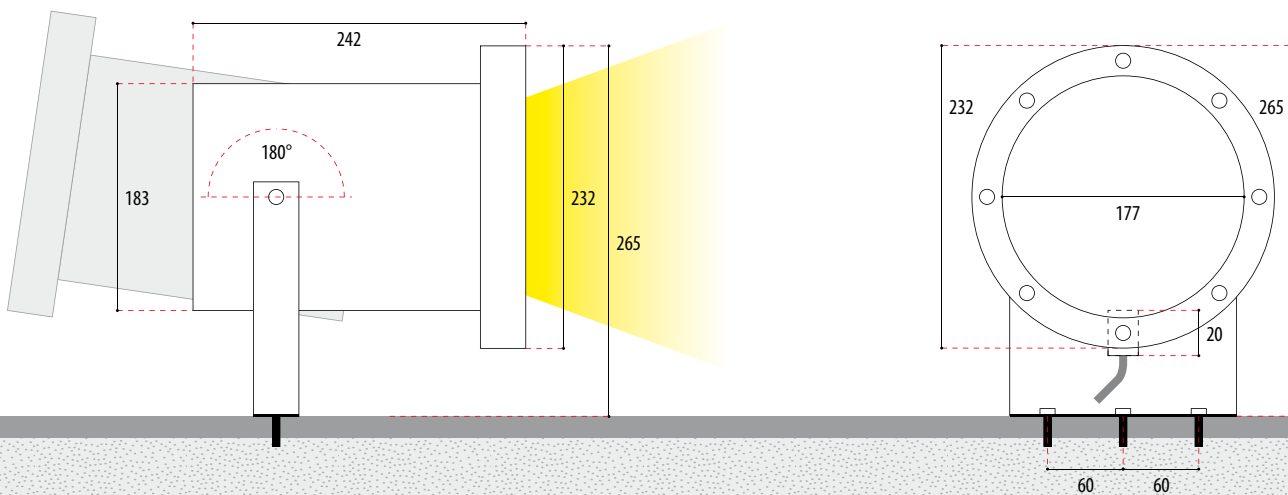
**DESCRIPTION**

- Protection system IP67
- Made of marine grade 316L stainless steel, manufactured with an aluminium reflector
- Mounting bracket adjustable through 180°
- Temperature-resistant silicon seal
- Toughened safety glass
- Special cable gland PG 16/21, nickel-plated brass
- Ballast and Ignitor fitted depending on type

**ACCESSORIES & POWER SUPPLIES**  
see page 134 and 137+



**OPTIONS ON REQUEST**



Article number	Lamps	Wattage	Tension	Socket	Temperature	
<b>Symmetric reflector, flood 80°</b>						
4.0097.12.70	HIT-DE	70W	230V	RX7s	110°C	J51
4.0097.12.71	HST-DE	70W	230V	RX7s	110°C	Q51
<b>Symmetric reflector, medium 35°</b>						
4.0097.16.35	HIT-CRI	35W	230V	G12	<75°C	I81
4.0097.16.52	HST-CRI	50W	230V	GX12-1	80°C	P81
4.0097.16.70	HIT-CRI	70W	230V	G12	110°C	I83
<b>Symmetric reflector, spot 12°</b>						
4.0097.13.35	HIT-CRI	35W	230V	G12	<75°C	I61
4.0097.13.52	HST-CRI	50W	230V	GX12-1	80°C	P61
4.0097.13.70	HIT-CRI	70W	230V	G12	110°C	I63

# HIT Outdoor-Floodlight

## 6.3459



### DESCRIPTION

- Protection system IP65
- Made of nonrusting diecast aluminium for HIT-DE metal vapour lamps
- With highly polished, wide-beam trickle mirror, safety glass and silicon sealing ring
- With fitted ballast and ignitor
- Fully wired on connecting terminal
- Supplied without light source

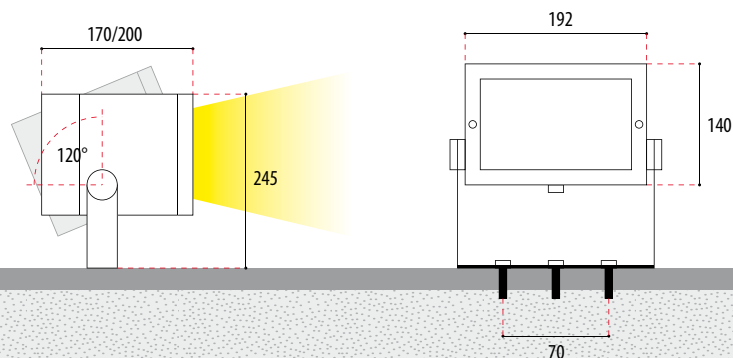
### ACCESSORIES & POWER SUPPLIES


see page 134 and 137+



### OPTIONS ON REQUEST

- Coloured HIT light sources available
- Asymmetrical reflector or spot reflector available on request



Article number	Lamps	Wattage	Tension	Socket	Light-current	
<b>Body colour black</b>						
6.3459.01.00	HIT-DE	70W	230V	RX7s	5.000lm	J91
6.3460.01.00	HIT-DE	150W	230V	RX7s-24	11.000lm	J93
<b>Body colour white</b>						
6.3459.02.00	HIT-DE	70W	230V	RX7s	5.000lm	J91
6.3460.02.00	HIT-DE	150W	230V	RX7s-24	11.000lm	J93

# HIT Outdoor-Floodlight

## 6.3470



### DESCRIPTION

- Protection system IP65
- Made of nonrusting diecast aluminium for HIT-DE metal vapour lamps
- With highly polished trickle mirror, safety glass and silicon sealing ring
- (6.3470) Ballast and Ignitor installed in a polyamide glass fibre connection box
- (6.3471) With fitted ballast and ignitor
- Fully wired on connecting terminal
- Supplied without light source

### ACCESSORIES & POWER SUPPLIES

see page 134 and 137+

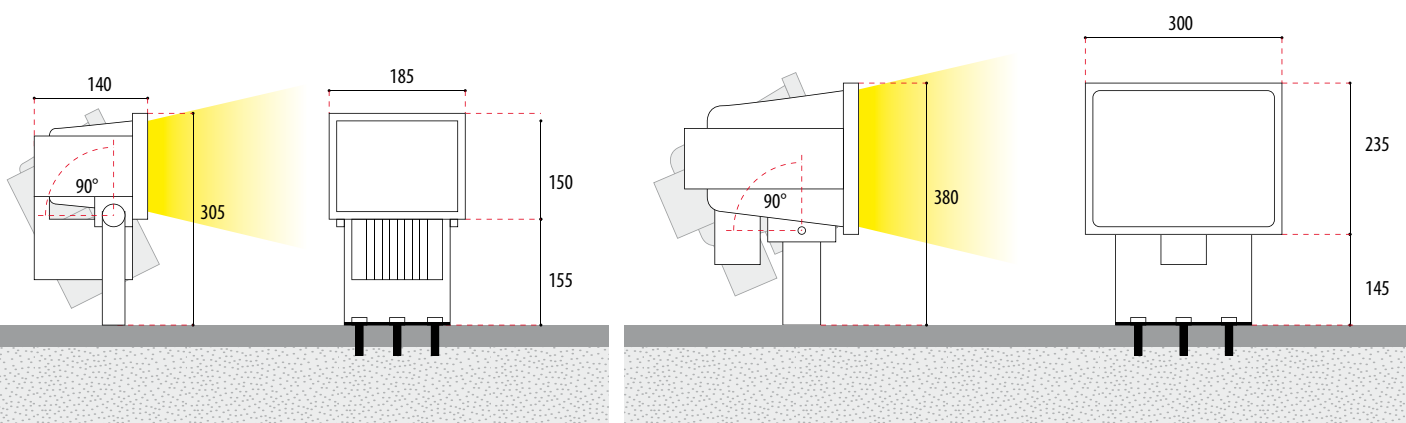


### OPTIONS ON REQUEST

- Asymmetrical reflector or spot reflector available on request

6.3470 (70 W)

6.3471 (150 W)



Article number	Lamps	Wattage	Tension	Socket	Light-current	No >163
<b>Body colour black</b>						
6.3470.01.00	HIT-DE	70W	230V	RX7s	5.000lm	J91
6.3471.01.00	HIT-DE	150W	230V	RX7s-24	11.000lm	J93
<b>Body colour white</b>						
6.3470.02.00	HIT-DE	70W	230V	RX7s	5.000lm	J91
6.3471.02.00	HIT-DE	150W	230V	RX7s-24	11.000lm	J93

# PAR38 Outdoor-Floodlight with ground stake

**6.0159**



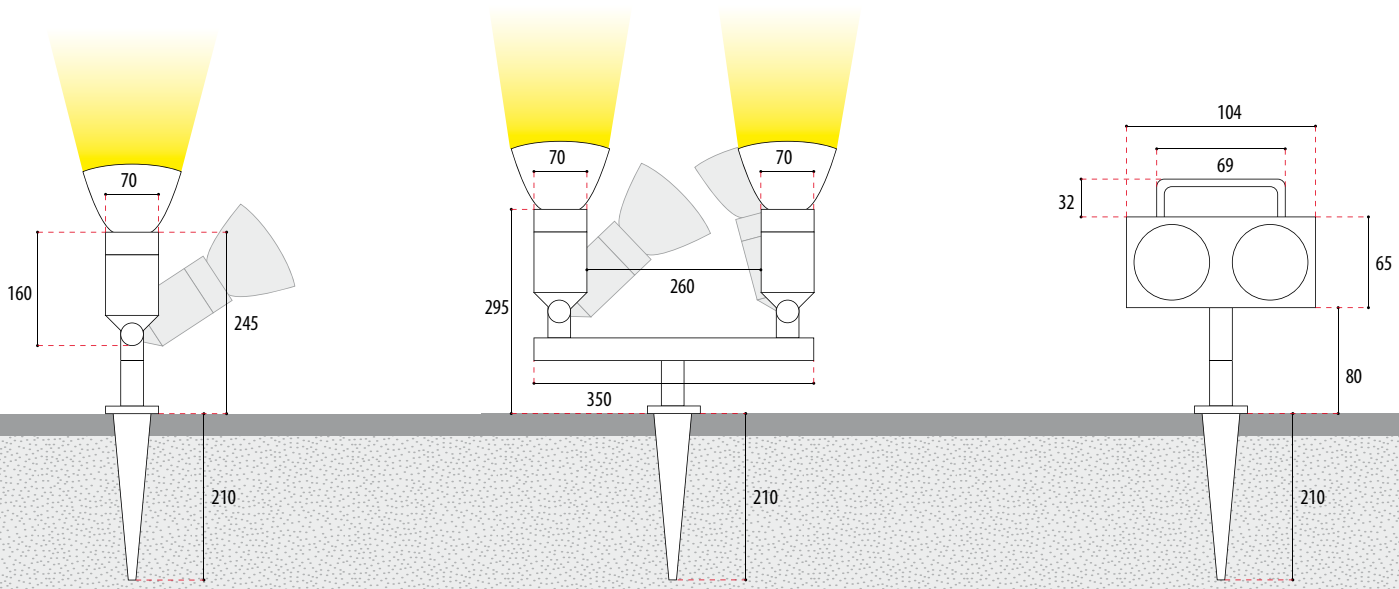
### DESCRIPTION


- Protection system IP54
- with ground stake
- (6.0159) Garden spotlight with 2 holders, 6 m of connecting cable and plug
- (6.1516) Garden spotlight with 6 m connecting cable and plug
- (6.0154) Socket, double, with 6 m connecting cable and plug
- Supplied without light source

ACCESSORIES & POWER SUPPLIES  
see page 134 and 137+



OPTIONS ON REQUEST



Article number	Lamps	Wattage	Tension	Socket	Radation angle	
<b>Garden spotlight with 2 holders, 6 m of connecting cable and plug</b>						
6.0159.01.84	PAR38	120W	230V	E27	30°	G37
<b>Garden spotlight with 6 m connecting cable and plug</b>						
6.1516.01.84	PAR38	120W	230V	E27	30°	G37
<b>Socket, double, with 6 m connecting cable and plug</b>						
6.0154.01.84		6 Ampere	230V			

# PAR38 Outdoor-Floodlight

## 6.0150



### DESCRIPTION

- Protection system IP54
- (6.0152) with one holder for wall and ceiling installation, available in black and white
- (6.0158) wall bars with 2 holders, for wall or ceiling installation, available in black and white
- (6.0164) wall bars with 3 holders, for wall or ceiling installation, available in black
- (6.1500) one holder, length 750 mm, available in black and white
- (6.1600) one holder, length 1000 mm, available in black and white
- Supplied without light source

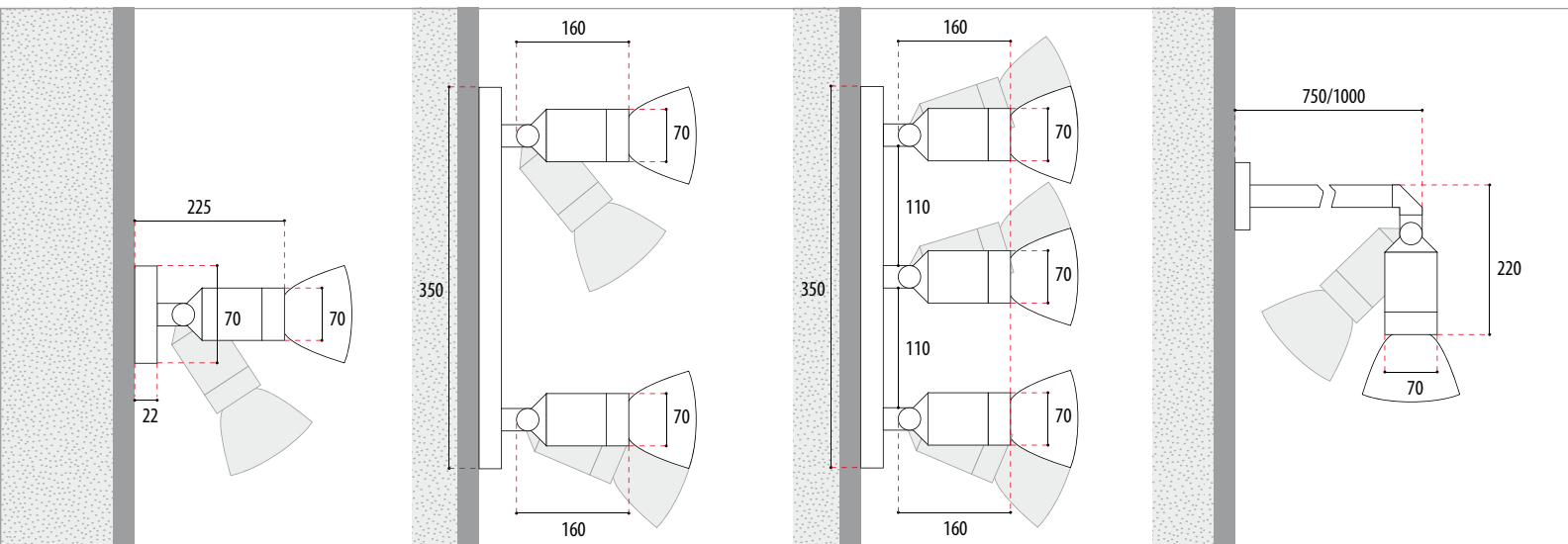
### APPLICATION

### ACCESSORIES & POWER SUPPLIES

see page 134 and 137+



### OPTIONS ON REQUEST



Article number	Lamps	Wattage	Tension	Socket	Radation angle	No. >163
<b>with one holder for wall and ceiling installation, available in black and white</b>						
6.0150.01.84 black	PAR38	120W	230V	E27	30°	G37
6.0150.02.84 white	PAR38	80W	230V	E27	30°	G35
<b>wall bars with 2 holders, for wall or ceiling installation, available in black and white</b>						
6.0158.01.84 black	PAR38	120W	230V	E27	30°	G37
6.0158.02.84 white	PAR38	80W	230V	E27	30°	G35
<b>wall bars with 3 holders, for wall or ceiling installation, available in black</b>						
6.0164.01.84 black	PAR38	120W	230V	E27	30°	G37
<b>one holder, length 750 mm, available in black and white</b>						
6.1500.01.84 black	PAR38	120W	230V	E27	30°	G37
6.1500.02.84 white	PAR38	80W	230V	E27	30°	G35
<b>one holder, length 1000 mm, available in black and white</b>						
6.1600.01.84 black	PAR38	120W	230V	E27	30°	G37
6.1600.02.84 white	PAR38	80W	230V	E27	30°	G35

# Outdoor-Floodlight power supplies & Accessories

4.0003.01.00	anti-glare louver – black, for symm. and asymm. Reflector
4.0004.00.00	double cable gland – PG16/21, brass
4.0009.00.20	angular ring – with 2 protection bars
4.0009.00.40	angular ring – with 4 protection bars
4.0230.01.00	glass disc, frosted – for softer light distribution (light loss approx. -15%)
6.3461.01.00	Anti-glare shade – black
6.3461.02.00	Anti-glare shade – white
6.3464.01.00	wall bracket, 1 m – black
6.3464.02.00	wall bracket, 1 m – white
6.3465.01.00	mounting angle – black
6.3465.02.00	mounting angle – white
6.3466.01.00	corner fastener – black
6.3466.02.00	corner fastener – white
6.3468.00.00	pole-mounted – ø 60 mm
6.3469.00.00	pole-mounted – ø 100 mm

Spotlight ↓	Accessories											
4.0097.12.70	●	●	●	●	●							
4.0097.12.71	●	●	●	●	●							
4.0097.13.35	●	●	●	●	●							
4.0097.13.52	●	●	●	●	●							
4.0097.13.70	●	●	●	●	●							
4.0097.16.35	●	●	●	●	●							
4.0097.16.52	●	●	●	●	●							
4.0097.16.70	●	●	●	●	●							
4.0302.10.35	●	●	●	●	●							
4.0302.10.50	●	●	●	●	●							
6.0150.01.84												
6.0150.02.84												
6.0154.01.84												
6.0158.01.84												
6.0158.02.84												
6.0159.01.84												
6.0164.01.84												
6.1500.01.84												
6.1500.02.84												
6.1516.01.84												
6.1600.01.84												
6.1600.02.84												
6.3459.01.00						●	●	●	●	●	●	●
6.3459.02.00						●	●	●	●	●	●	●
6.3460.01.00						●	●	●	●	●	●	●
6.3460.02.00						●	●	●	●	●	●	●

Spotlight ↓	Accessories	
6.3470.01.00		
6.3470.02.00		
6.3471.01.00		
6.3471.02.00		
6.4300.00.15	●	
6.4300.00.16	●	
6.4300.00.42	●	
6.4300.00.70	●	
6.4300.00.71	●	
6.4300.00.80	●	
6.4300.00.85	●	
6.4350.00.25	●	
6.4350.00.26	●	
6.4350.00.27	●	
6.4350.00.40		
6.4350.00.41		
6.4350.00.42		
6.4400.00.15		●
6.4400.00.16		●
6.4400.00.42		●
6.4400.00.70		●
6.4400.00.71		●
6.4400.00.80		●
6.4400.00.85		●
6.4450.00.25		●
6.4450.00.26		●
6.4450.00.27		●
6.4450.00.40		●
6.4450.00.41		●
6.4450.00.42		●

6.4390.00.10	cover disk – clear, up to 250 W
6.4490.00.20	cover disk – frosted, up to 400 W
6.4490.00.10	cover disk – clear, up to 400 W



# Fluorescent-Lights



# Fluorescent-Lights with internal starter device technology, ø50

## 4.1001 · 4.1041



### DESCRIPTION

- Protection system IP67
- Made of impact-resistant and highly transparent PC plastic with a diameter of 50 mm
- For use inside and outside
- Mounted on a non-twisting aluminium mounting system
- (4.1001) With integral ballast, BJB cable clamp and PG11 screw-type fastening
- (4.1041) With integral ballast, Wieland plug-type connection system and PG11 cable gland
- Supplied with plastic fastening elements and light source

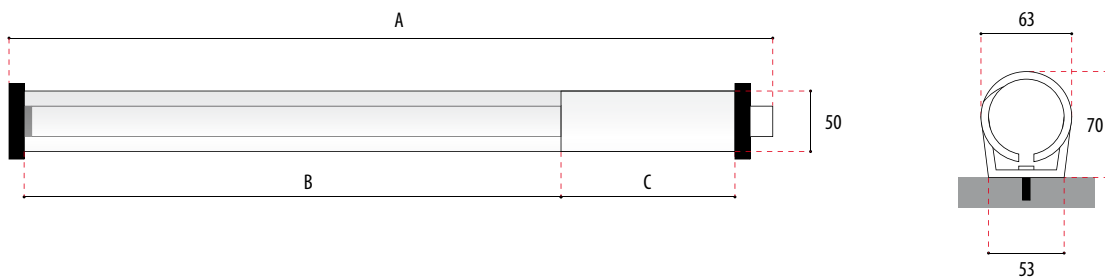
### ACCESSORIES & POWER SUPPLIES

see page 137+



### OPTIONS ON REQUEST

- Also available with a electronic ballast (EVG)
- marine grade 316L stainless steel fixing elements available on request



Article number	Lamps	Wattage	Tension	Socket	Light-current	Dimensions A-B-C
<b>Internal starter technology - Standard</b>						
4.1001.08.00	T5	8 W	230 V	G5	380 lm	654 x 288 x 366 mm
4.1001.13.00	T5	13 W	230 V	G5	830 lm	884 x 517 x 367 mm
4.1001.15.00	T8	15 W	230 V	G13	850 lm	838 x 438 x 355 mm
4.1001.18.00	T8	18 W	230 V	G13	1350 lm	991 x 590 x 401 mm
4.1001.30.00	T8	30 W	230 V	G13	2100 lm	1293 x 895 x 398 mm
4.1001.36.00	T8	36 W	230 V	G13	3300 lm	1600 x 1200 x 400 mm
<b>Wieland Standard-Universal</b>						
4.1041.08.00	T5	8 W	230 V	G5	380 lm	780 x 492 x 288 mm
4.1041.13.00	T5	13 W	230 V	G5	830 lm	1010 x 517 x 493 mm
4.1041.15.00	T8	15 W	230 V	G13	850 lm	964 x 483 x 481 mm
4.1041.18.00	T8	18 W	230 V	G13	1350 lm	1117 x 590 x 527 mm
4.1041.30.00	T8	30 W	230 V	G13	2100 lm	1419 x 895 x 524 mm
4.1041.36.00	T8	36 W	230 V	G13	3300 lm	1726 x 1200 x 526 mm
4.1041.58.00	T8	58 W	230 V	G13	5200 lm	2092 x 1500 x 592 mm

# Accessories & Power supplies



## Constant current power supplies

## DESCRIPTION

- Constant current converter: 350mA/700mA for POW LED modules
- Controlled constant output current: 350mA/700mA; ± 5%
- SELV
- Over temperature and short circuit protection
- overload and overvoltage protection
- Identification of polarity: +/-
- POW LED modules must be wired in series connection to the constant current power supplies
- Normen: Safety: EN 61347 Radio Interferences: EN 55015 Harmonics: EN 61000-3-2 Immunity: EN 61547

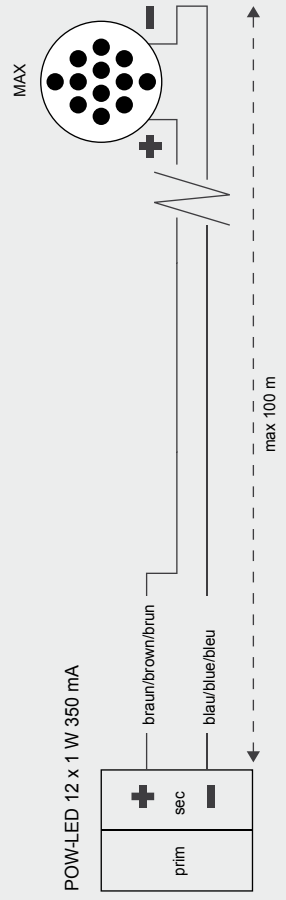
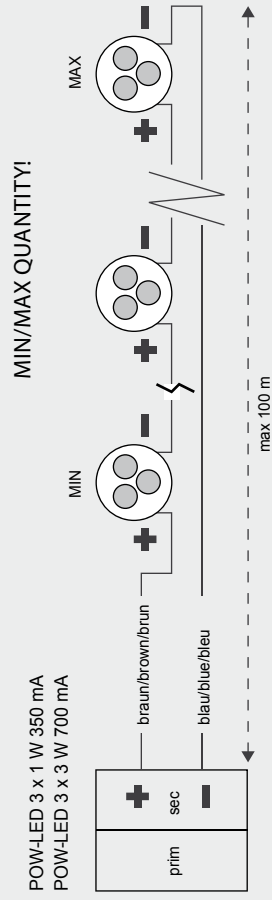
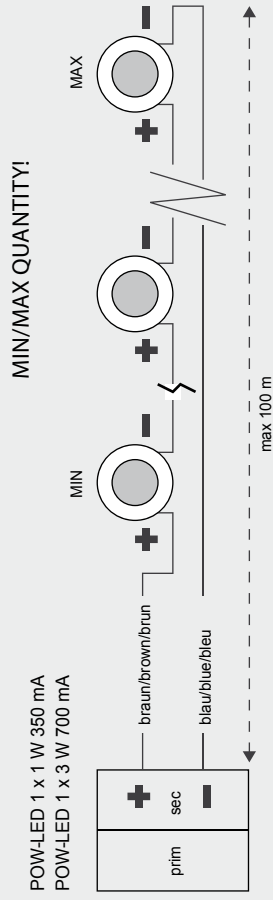


Article number – IP protection	IP20	5.0635.00.03	5.0635.00.10	5.0635.00.20	5.0635.00.21	-	5.0670.00.10	5.0670.00.20	5.0670.00.21	-
Article number – IP protection	IP65	5.0635.65.03	5.0635.65.10	5.0635.65.20	5.0635.65.20	5.0635.00.36	5.0670.65.10	5.0670.65.20	5.0670.65.20	5.0670.00.30
		350 mA								
Primary voltage	V AC	95-240	95-240	220-240	220-240	90-254	95-240	95-240	220-240	100-264
Frequency	Hz	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Output Current	mA	350	350	350	350	350	700	700	700	700
output power	W	1-4,2	3-12	5-17	5-17	5-17 (each channel)	3-10	5-17	5-17	30
secondary voltage	V DC	Max. 12,0	Max 34,0	Max. 48,0	Max. 48,0	Max. 48,0	Max. 18,0	Max. 24,0	Max. 24,0	Max 48,0
Ambient temperature ta	°C	Max. 60°	Max. 40°	Max. 40°	Max. 40°	Max. 45°	Max. 40°	Max. 40°	Max. 40°	Max. 50°
Max. case temperature tc	°C	80°	75°	90°	80°	-	75°	90°	80°	90°
Dimensions	mm	35,5x32x25	42x40x21	123x38x21	123x38x21	180x120x54	115x34x19	123x38x21	123x38x21	133x40x31
Weight	kg	0,1	0,05	0,15	0,15	1,8	0,1	0,15	0,15	0,25
IP65 Protection housing on request		✓	✓	✓	✓	-	✓	✓	✓	-
certification		CE, CSV	CE	CE, CSV	CE	CE	CE	CE	CE	CE
dimming		-	-	-	0...10Vdc/47kΩ Potentiometer	-	-	-	0...10Vdc/47kΩ Potentiometer	-
connection matrix										
POW LED 1x1W, 350mA Modul	1	1-3	3-6	5-12	5-12	18-36 (6-12 each channel)	-	-	-	-
POW LED 3x1W, 350mA Modul	-	1	1-2	2-4	2-4	6-12 (2-4 each channel)	-	-	-	-
POW LED 12x1W, 350mA Modul	-	-	-	1	1	1-3	-	-	-	-
POW LED 36x1W, 350mA Modul	-	-	-	-	-	1	-	-	-	-
POW LED 1x3W, 700mA Modul	-	-	-	-	-	-	1-3	2-6	2-6	4-12
POW LED 3x3W, 700mA Modul	-	-	-	-	-	-	1	2	2	2-4

# Constant current power supplies

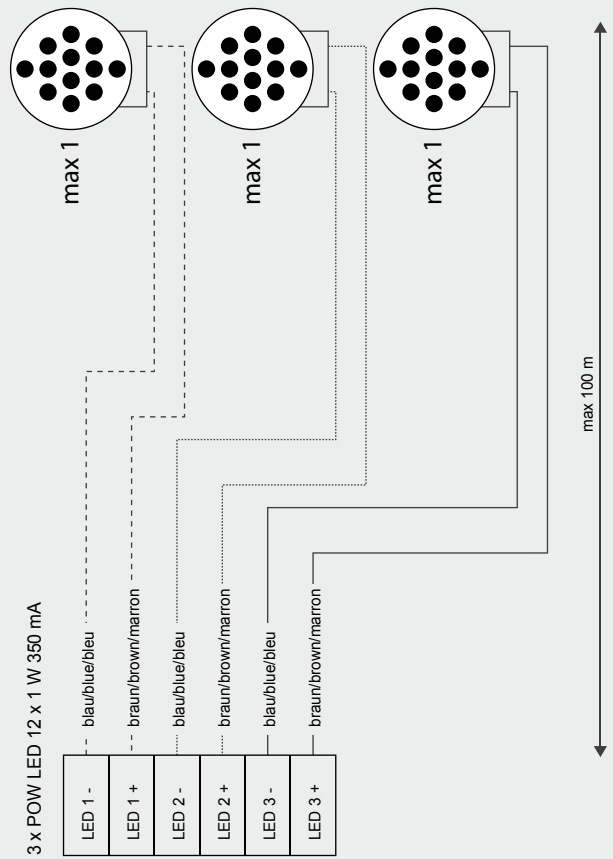
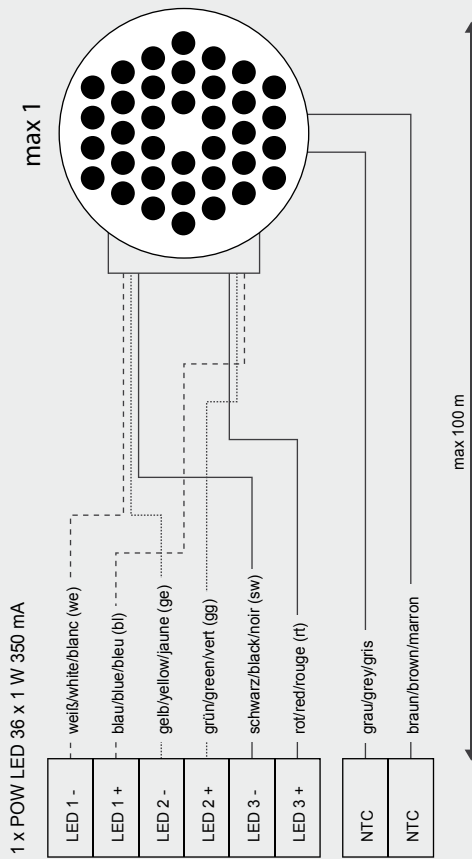
Wiring diagram-example for  
 5.0635.00.01 5.0670.00.10  
 5.0635.00.03 5.0670.00.20  
 5.0635.00.10 5.0670.00.30  
 5.0635.00.20  
 5.0635.00.21

**REMARKS**  
 Attention: Serial connection with POW-LED modules!




Wiring diagram-example for  
 5.0635.00.36

**REMARKS**  
 Attention: Serial connection with POW-LED modules!



## RGB Controller

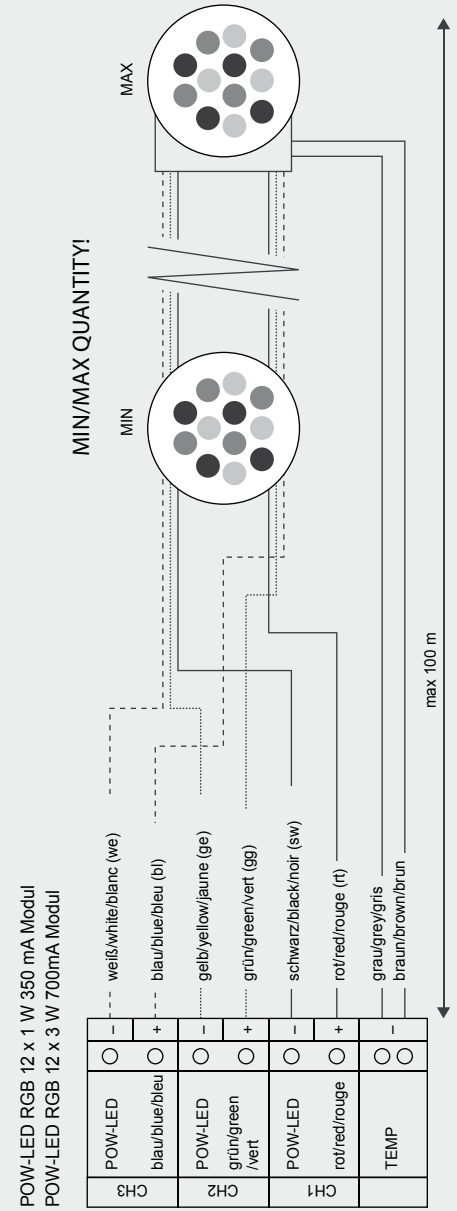
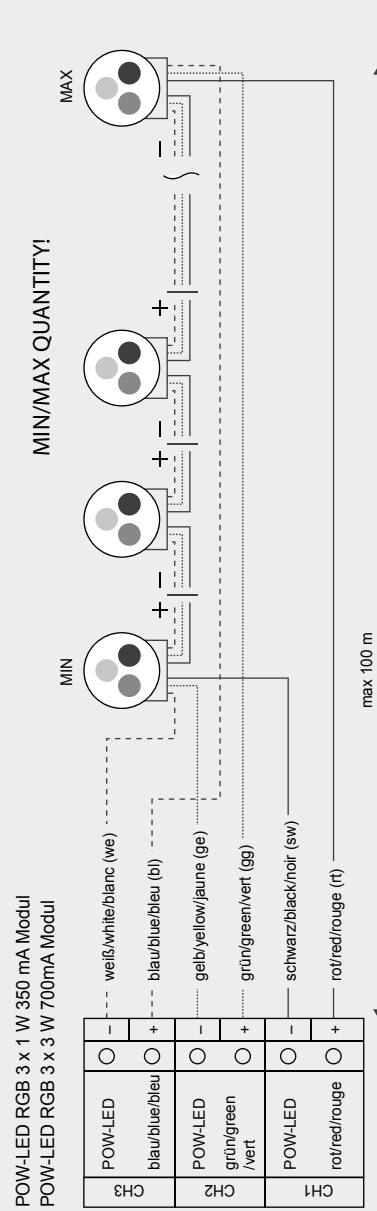
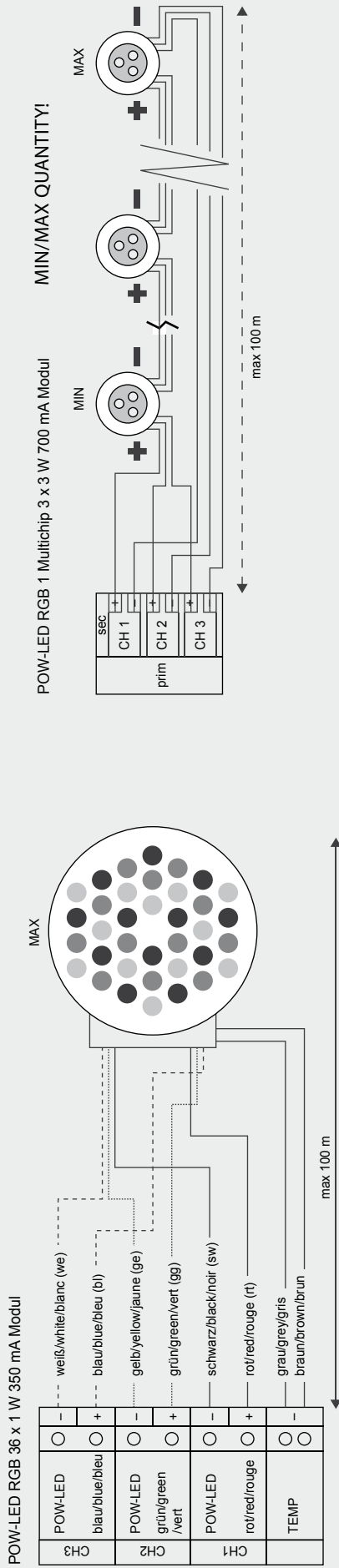
	DESCRIPTION		
	<p><b>DESCRIPTION</b></p> <ul style="list-style-type: none"> <li>· 350mA/700mA-RGB-Controller for connection of POW-LED RGB 1 W/3W Modules</li> <li>· 3 full addressable constant current output channels</li> <li>· different stand alone programs and colour sequences (red/green/blue/cyan/pink/yellow/white/3 Colour Change/all on)</li> <li>· DMX512 interface in/out</li> <li>· Master/slave for synchronization of several controllers</li> <li>· Temperature control (NTC)</li> <li>· optional remote control 5.0635.09.55 for changing programs and regulating the speed of colour changer</li> </ul>	<p><b>5.0635.09.16</b>    <b>5.0635.09.24</b>    <b>5.0635.09.50</b>    <b>5.0670.09.18</b>    <b>5.0635.09.52</b></p> <p><b>350 mA</b>    <b>700 mA</b>    <b>350 mA</b></p>	<ul style="list-style-type: none"> <li>· 350mA-RGBW-Controller for connection of RGBWhite 1 W Modules</li> <li>· 4 full addressable constant current output channels</li> <li>· different stand alone programs and colour sequences</li> <li>· Master/slave for synchronization of several controllers</li> <li>· Temperature control (NTC)</li> </ul>
Article number			
Primary voltage	V AC	90-254	90-254
Frequency	Hz	50-60	50-60
Output Current	mA	350	350
output power	W	1-12W	12-70
efficiency	%	82	82
secondary voltage	V DC	Max. 15,0	Max. 48,0
Ambient temperature ta	°C	Max. 45°	Max. 45°
Dimensions LxWxH	mm	254x180x120	254x180x120
Weight	kg	1,8	1,8
IP protection		IP65	IP20
H-rail mounting			✓
mounting housing IP65			on request
DMX512 in/out		✓	✓
Stand-alone-Programmes		✓	✓
Master/Slave Synchronisation		✓	✓
dimming		PWM	PWM
Remote control 5.0635.09.55		✓	✓
connection matrix			
POW LED RGB 3 x 1W, 350mA Modul		5-8	-
POW LED RGB 6 x 1W, 350mA Modul		3-4	-
POW LED RGB 12 x 1W, 350mA Modul		1-2	-
POW LED RGB 18 x 1W, 350mA Modul		1	-
POW LED RGB 24 x 1W, 350mA Modul		1	-
POW LED RGB 27 x 1W, 350mA Modul		-	-
POW LED RGB 36 x 1W, 350mA Modul		1	-
POW LED RGB 3 x 3W, 700mA Modul		-	1-6
POW LED RGB 12 x 3W, 700mA Modul		-	1
POW LED RGB 1 Multichip 3 x 1W, 350mA Modul		-	-
POW LED RGB 3 Multichip 3 x 3W, 700mA Modul		5-8	-
POW LED RGBW 48 x 1W, 350mA Modul		-	1-2
			1

# RGB Controller

## Wiring diagram-example

### REMARKS

Min/Max numbers of POW-LED Modules must be considered!



# Special-constant current power supplies

## Special-RGB-Controller

### DESCRIPTION

Special designed and adjusted only to use in connection with certain WIBRE products.

- Constant current converter 350mA/700mA for POW LED modules
- Controlled constant output current: 350mA/700mA; + 5%
- SELV

- Over temperature and short circuit protection
- Overload and overvoltage protection

- Identification of polarity: +/-

- POW LED modules must be wired in series connection to the constant current power supplies

- Normen: Safety: EN 61347 Radio Interferences: EN 55015 Harmonics: EN 61000-3-2 Immunity: EN 61547



- 700mA/12V DC-RGB-Controller for connection of POW LED RGB 3W Modules
- 3 full addressable constant current output channels
- different stand alone programs and colour sequences (red/green/blue/cyan/pink/yellow/white/3 Colour Change/all on)
- DMX512 interface in/out
- Master/slave for synchronization of several controllers
- Temperature control (NTC)
- optional remote control 5.0635.09.55 for changing programs and regulating the speed of colour changer

Article number	5.0670.00.06	5.0670.00.15	5.0670.00.18	5.0670.02.72	5.0670.04.72	5.0670.00.40	5.0670.11.24	5.0635.00.48	5.0670.09.45	NEW	5.0670.19.24
Primary voltage	90-250	95-240	110-250	110-250	110-250	90-250	90-250	90-250	110-250		230 +/-10%
Frequency	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60		50-60
Output Current	1400	3500	700	6000-12000	5600	-	700	350	700		700
output power	20	55	50	70-140	70-280	60	81	50	1-130		Max.67W
efficiency	80	80	85	85	85	82	82	82	82		82
secondary voltage	12	12	12	12	12	24	12	48	12		Max. 12V DC
Ambient temperature ta	Max. 45°	Max. 45°	Max. 45°	-10° - +30°C	-10° - +30°C	Max. 45°	Max. 45°	Max. 45°	-10° - +30°C		Max. 45°
Dimensions LxWxH	180x90x90	180x180x90	180x180x90	243x82x101	243x82x101	254x180x90	254x180x90	254x180x90	243x82x101		254x180x90
Weight	0,5	0,8	1,0	0,5	0,5	2,0	2,5	2,5	0,9		2,5
IP protection	IP65	IP65	IP65	IP20	IP20	IP65	IP65	IP20	IP20		IP65
H-rail mounting			✓	✓	✓		✓	✓	✓		✓
mounting housing IP65				9.0670.65.72				on request	9.0670.65.72		✓
DMX512 in/out			✓	✓					✓		✓
Stand-alone-Programmes									✓		✓
Master/Slave Synchronisation									✓		✓
dimming		1...10V dc							PWM		PWM
Remote control 5.0635.09.55									✓		✓
connection matrix											
Only for POW LED 6 x 3W, 700mA Modul, Serie 4.0171	1	-	-	-	-	-	-	-	-		-
Only for POW LED 15 x 3W, 700mA Modul, Serie 4.0199	-	1	-	-	-	-	-	-	-		-
Only for POW LED 18 x 3W, 700mA Modul, Serie 4.3061	-	-	1	-	-	-	-	-	-		-
Only for POW LED 18 x 3W, 700mA Modul, Serie 4.0271/4.0273/4.0275	-	-	-	-	-	1	-	-	-		-
Only for POW LED 24 x 3W Modul Serie 4.0282/281	-	-	-	1-2	1-4	-	-	-	-		-
Only for POW LED 27 x 3W, 700mA Modul, Serie 4.0271/4.0273/4.0275	-	-	-	-	-	-	1	-	-		-
Only for POW LED 48 x 1W, 350mA Modul, Serie 4.1900	-	-	-	-	-	-	-	1	-		-
Only for POW LED RGB 27 x 3W, 700mA/12V DC Modul, Serie 4.0271/4.0273/4.0275	-	-	-	-	-	-	-	-	-		1
Only for 9 Multichip POW LED RGB (3 x 3W), 27 x 3W 700mA/12V DC Modul, Serie 4.0199	-	-	-	-	-	-	-	-	-		1
Only for 15 Multichip POW LED RGB (3 x 3W), 45 x 3W Modul Serie 4.0282/4.0281	-	-	-	-	-	-	-	-	-		1

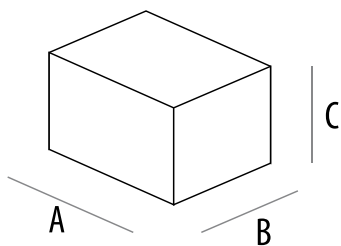








## Safety transformers










## DESCRIPTION



The standard supply units for the operation of underwater lights are moulded safety transformers with separate windings, designed to comply with protection system IP65 and contamination class P2.




5.0098.00.00	50 VA	1 x 50 W	12V-AC	(A) 170 x (B) 130 x (C) 80	IP65	2,4 kg		
5.0100.00.00	100 VA	2 x 50 W	12V-AC	(A) 170 x (B) 130 x (C) 80	IP65	3,2 kg		
5.0101.00.00	150 VA	2 x 75 W	12V-AC	(A) 185 x (B) 130 x (C) 90	IP65	3,6 kg		
5.0311.00.00	200 VA	2 x 100 W	12V-AC	(A) 185 x (B) 130 x (C) 105	IP65	4,0 kg		
5.0103.00.00	350 VA	2 x 175 W	12V-AC	(A) 215 x (B) 170 x (C) 110	IP65	6,7 kg		
5.0107.00.00	600 VA	2 x 300 W	12V-AC	(A) 230 x (B) 220 x (C) 120	IP65	12,0 kg		
5.0109.00.00	900 VA	3 x 300 W	12V-AC	(A) 335 x (B) 220 x (C) 145	IP65	18,2 kg		

5.0411.00.00	200 VA	1 x 200 W	12/13/14 V-AC	(A) 185 x (B) 130 x (C) 105	IP65	4,0 kg		
5.0421.00.00	400 VA	2 x 200 W	12/13/14 V-AC	(A) 215 x (B) 170 x (C) 110	IP65	8,5 kg		

5.0310.00.01	150 VA	1 x 150 W	24V-DC	(A) 220 x (B) 175 x (C) 115	IP65	6,8 kg		
5.0312.00.01	250 VA	1 x 250 W	24V-DC	(A) 220 x (B) 175 x (C) 115	IP65	7,8 kg		
5.0313.00.01	600 VA	4 x 150 W	24V-DC	(A) 270 x (B) 255 x (C) 145	IP65	16,9 kg		
5.0314.00.01	400 VA	2 x 200 W	24V-DC	(A) 270 x (B) 255 x (C) 145	IP65	17,1 kg		

5.0106.00.01	600 VA	1 x 600 W	28V-DC	(A) 330 x (B) 215 x (C) 140	IP65	17,1 kg		
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5.0410.00.01	200 VA	1 x 200 W	30V-DC	(A) 220 x (B) 175 x (C) 120	IP65	4,4 kg		
5.0420.00.01	400 VA	2 x 200 W	30V-DC	(A) 310 x (B) 215 x (C) 120	IP65	7,6 kg		

# USB-DMX Controller

## 5.0690



### DESCRIPTION

USB DMX Controller for easy programming and saving of light scenes and programs via PC and Laptop on mini SD memory card. A use, as a Stand-Alone solution, without PC connection is possible with a power supply included in the delivery. Via integral up/down buttons with a display or a potential-free switch key on I/O ports a selection of 8 memorized light scenes is possible. Content: USB-DMX-Controller, USB-Kabel, Netzteil, SD-Karte, CD mit Manual, Stand-Alone Software und Gerätetreibern (Windows 98; ME, 2000, XP, Vista)

### APPLICATION

- For easy programming and saving of light scenes for architectural illumination.

### ACCESSORIES

#### 5.0690.09.02

Switch key connection box: Plastic material, IP 65, for the connection of 8 potential-free switch keys, USB DMX controller and recall of 8 programmed light scenes in port mode.

### OPTIONS ON REQUEST

· IR remote control to recall 8 light scenes on request!

	Control output	DMX-Connection	PC-Connection	External Ports	Internal Clock	Dimensions	Weight	Operating temperature
5.0690.09.01	2 x DMX512	XLR-Stecker 3-polig	USB	8 I/O Ports	Realtime Clock	80 x 90 x 40 mm	0,1 kg	0 - +45°C



## Stand-alone-Controller for RGB coloured light control

5.0690

**DESCRIPTION**

Stand-alone-Controller for RGB coloured light control of lights via DMX 512. There are two different light zones selectable, with a central turning knob colour, brightness and velocity of the colour change can be programmed. Individual colour mixes can be saved via 6 program buttons. Installation on the wall with a standard hollow recessing box.

Content: Stand-alone-Controller, 2 Verbindungskabelkabel, Netzteil, Manual

**OPTIONS ON REQUEST**

· IR Remote control on request

**APPLICATION**

- For easy coloured light control of RGB lights on architectural lighting.

## Control output

## Dimensions

## Weight

## Operating temperature

5.0690.09.05

2 x DMX512

170 x 100 x 40 mm

0,3 kg

0 - +45°C



## cable and cable protection tube

Article number	Unit	cable cross section	Outer diameter	Inner diameter
<b>Silicon cable</b>				
9.6250.02.05	pro m	2 x 0,5 mm <sup>2</sup>	ø 5 mm	
9.6250.02.15	pro m	2 x 1,5 mm <sup>2</sup>	ø 8 mm	
9.6250.02.25	pro m	2 x 2,5 mm <sup>2</sup>	ø 10 mm	
9.6250.02.40	pro m	2 x 4,0 mm <sup>2</sup>	ø 11 mm	
9.6250.02.60	pro m	2 x 6,0 mm <sup>2</sup>	ø 13 mm	
9.6250.06.05	pro m	6 x 0,5 mm <sup>2</sup>	ø 8 mm	
9.6250.08.05	pro m	8 x 0,5 mm <sup>2</sup>	ø 12 mm	
9.6250.03.15	pro m	3G 1,5 mm <sup>2</sup>	ø 9 mm	
9.6250.03.25	pro m	3G 2,5 mm <sup>2</sup>	ø 11 mm	
9.6250.05.15	pro m	5G 1,5 mm <sup>2</sup>	ø 11 mm	

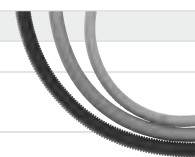


### Special underwater cable

9.6150.02.15	pro m	2 x 1,5 mm <sup>2</sup>	ø 8 mm
9.6150.02.25	pro m	2 x 2,5 mm <sup>2</sup>	ø 10 mm
9.6150.02.40	pro m	2 x 4 mm <sup>2</sup>	ø 11 mm
9.6150.02.60	pro m	2 x 6 mm <sup>2</sup>	ø 13 mm
9.6150.04.40	pro m	2 x 4 qmm + 4 x 0,5 qmm	ø 11 mm
9.6150.06.05	pro m	6 x 0,5 mm <sup>2</sup>	ø 8 mm
9.6150.08.05	pro m	8 x 0,5 mm <sup>2</sup>	ø 12 mm
9.6150.06.10	pro m	6 x 1,0 mm <sup>2</sup> + 2 x 0,5 mm <sup>2</sup>	ø 13 mm
9.6150.10.05	pro m	10 x 0,5 mm <sup>2</sup>	ø 13 mm

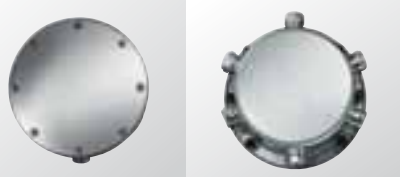


Article number	Unit	Outer diameter	Inner diameter
<b>cable protection tube</b>			
9.0068.00.00	pro m	flexible fluted	ø 28,1 mm / ø 21,9 mm
9.6300.00.00	pro m	flexible	ø 25 mm / ø 20 mm
9.6301.00.00	pro m	flexible	ø 21 mm / ø 16 mm



## branch boxes

### 4.0690



#### DESCRIPTION

· Underwater distribution box made of V4A stainless steel for use in special areas like swimming pools, fountains, damp rooms and containers. The branch box can be used to a maximum depth of 3m and is available in different versions. The numbered models shown are examples for information only. Please make sure that you specify the designated cable diameters on the input and output side with your order so that we can supply you with the correct seal inserts. (IP68-rated protection is only available in conjunction with special underwater cables or silicon cables. In addition, the box needs to be filled with epoxy resin or silicon – please request the filling compound separately.)

4.0268.10.13	stainless steel	1 input PG21, PVDF, ø-Cable 14–18 mm	3 outputs PG16, PVDF, ø-Kabel 9–13,5 mm	IP68/IP67	ø 226 x 95 mm
4.0268.10.15	stainless steel	1 input PG21, PVDF, ø-Cable 14–18 mm	5 outputs PG16, PVDF, ø-Kabel 9–13,5 mm	IP68/IP67	ø 226 x 95 mm
4.0268.10.17	stainless steel	1 input PG21, PVDF, ø-Cable 14–18 mm	7 outputs PG16, PVDF, ø-Kabel 9–13,5 mm	IP68/IP67	ø 226 x 95 mm



#### DESCRIPTION

· Underwater distribution box, IP68, V2A stainless steel. The branch box can be used to a maximum water depth of 1m and has 6 connections for round cables ranging from 6 to 8mm in diameter. (IP68-rated protection is only available in conjunction with special underwater cables or silicon cables. In addition, the box needs to be filled with epoxy resin or silicon – please request the filling compound separately.)

4.0690.00.00	stainless steel	1 input PG16, PVDF, ø-Cable 9–13,5 mm	6 outputs PG11, PVDF, ø-Cable 7–10,5 mm	IP68/IP67	118 x 118 x 82 mm
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## Branch boxes made from aluminium

4.0069



## DESCRIPTION

· This branch box is mounted flush to the ground and comes in cast aluminium for installation on the edge of the pool. After installation the box could be filled with silicon or epoxy resin. Only suitable for use with underwater spotlights.

4.0069.00.00

aluminium

1 input Cable duct support  $\varnothing$  21 mm2 outputs Pressure gland  $\varnothing$  7–10 mm

IP67

140 x 140 x 88 mm

## Branch boxes made from red bronze

4.0069



## DESCRIPTION

· This branch box is mounted flush to the ground and comes in red brass for installation on the edge of the pool. After installation the box could be filled with silicon or epoxy resin. Only suitable for use with underwater spotlights.

4.0069.01.00

bronze

1 input Cable duct support  $\varnothing$  22 mm2 outputs PG16, brass,  $\varnothing$ -Cable 9–13,5 mm

IP67

115 x 115 x 68 mm

## Branch boxes made from stainless steel

4.0069



## DESCRIPTION

· This branch box is mounted flush to the ground and comes in stainless steel for installation on the edge of the pool. After installation the box is filled with silicon or epoxy resin. Only suitable for use with underwater spotlights.

4.0069.02.00

stainless steel


1 input Cable duct support  $\varnothing$  22 mm4 outputs (2 x PG 13,5, brass,  $\varnothing$ -Cable 14–18 mm  
2 x PG 21, brass,  $\varnothing$ -Cable 7–9,5 mm)

IP67


140 x 140 x 88 mm

# Threaded joint cable, tube support


## PG9 Cable gland, brass

4.0004.00.09	ø-Kabel 6,5–4 mm	PG9	mounted to the spotlight	IP68	
9.9004.00.09	ø-Kabel 6,5–4 mm	PG9	as spare parts	IP68	


## PG11 Cable gland, brass

4.0004.00.11	ø-Kabel 9,5–6,5 mm	PG11	mounted to the spotlight	IP68	
9.9004.00.11	ø-Kabel 9,5–6,5 mm	PG11	as spare parts	IP68	


## PG11 Cable gland, brass

4.0004.05.11	ø-Kabel 10,5–7 mm	PG11	mounted to the spotlight	IP68	
9.9004.05.11	ø-Kabel 10,5–7 mm	PG11	as spare parts	IP68	


## PG11 Cable gland, 316L stainless steel

4.0004.40.11	ø-Kabel 9,5–6,5 mm	PG11	mounted to the spotlight	IP68	
9.9004.40.11	ø-Kabel 9,5–6,5 mm	PG11	as spare parts	IP68	


## PG11 Cable gland, 316L stainless steel

4.0004.45.11	ø-Kabel 10,5–7 mm	PG11	mounted to the spotlight	IP68	
9.9004.45.11	ø-Kabel 10,5–7 mm	PG11	as spare parts	IP68	


## PG13,5 Cable gland, brass

4.0004.00.13	ø-Kabel 10,5–7 mm	PG13,5	mounted to the spotlight	IP68	
9.9004.00.13	ø-Kabel 10,5–7 mm	PG13,5	as spare parts	IP68	


## PG13,5 Cable gland, 316L stainless steel

4.0004.40.13	ø-Kabel 10,5–7 mm	PG13,5	mounted to the spotlight	IP68	
9.9004.40.13	ø-Kabel 10,5–7 mm	PG13,5	as spare parts	IP68	


## PG16 Cable gland, brass

4.0004.00.16	ø-Kabel 10,5–7 mm	PG16	mounted to the spotlight	IP68	
9.9004.00.16	ø-Kabel 10,5–7 mm	PG16	as spare parts	IP68	


## PG16 Cable gland, brass

4.0004.05.16	ø-Kabel 13,5–9 mm	PG16	mounted to the spotlight	IP68	
9.9004.05.16	ø-Kabel 13,5–9 mm	PG16	as spare parts	IP68	


## PG16 Cable gland, 316L stainless steel

4.0004.40.16	ø-Kabel 10,5–7 mm	PG16	mounted to the spotlight	IP68	
9.9004.40.16	ø-Kabel 10,5–7 mm	PG16	as spare parts	IP68	


## PG16 Cable gland, 316L stainless steel

4.0004.45.16	ø-Kabel 13,5–9 mm	PG16	mounted to the spotlight	IP68	
9.9004.45.16	ø-Kabel 13,5–9 mm	PG16	as spare parts	IP68	

## DK68 Cable duct support, brass (counter nut brass)

4.0006.00.00	ø-Kabel 11–8 mm	DK68	mounted to the spotlight	IP68	
9.9006.00.00	ø-Kabel 11–8 mm	DK68	as spare parts	IP68	

## DK68 Cable duct support, 316L stainless steel (counter nut brass)

4.0006.40.00	ø-Kabel 11–8 mm	DK68	mounted to the spotlight	IP68	
9.9006.40.00	ø-Kabel 11–8 mm	DK68	as spare parts	IP68	

## DK68 Cable duct support, plastic (counter nut brass)

4.0006.41.00	ø-Kabel 11–8 mm	DK68	mounted to the spotlight	IP68	
9.9006.41.00	ø-Kabel 11–8 mm	DK68	as spare parts	IP68	

## Connection and distributor systems IP68/IP67



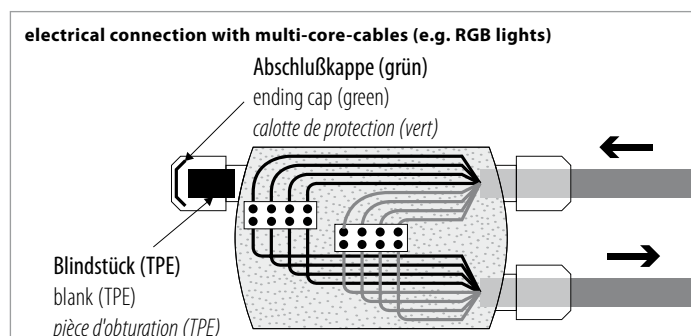
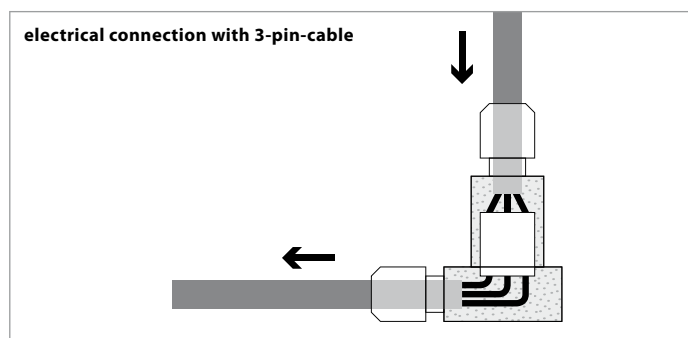
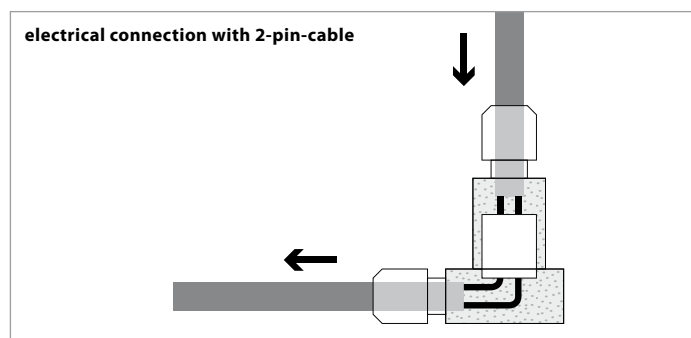
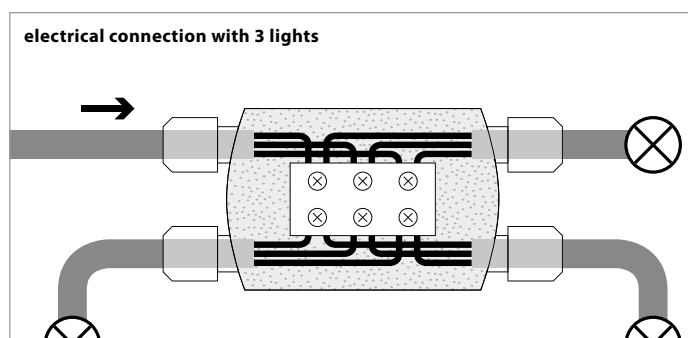
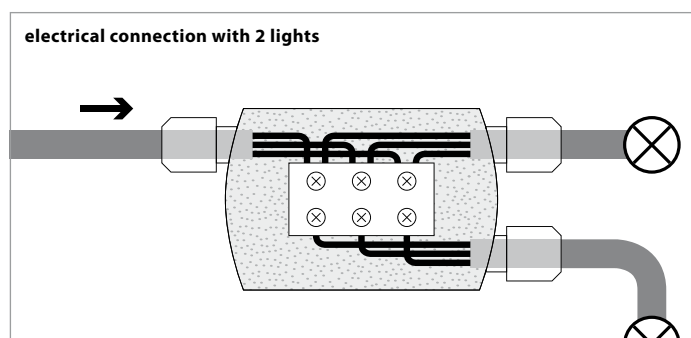
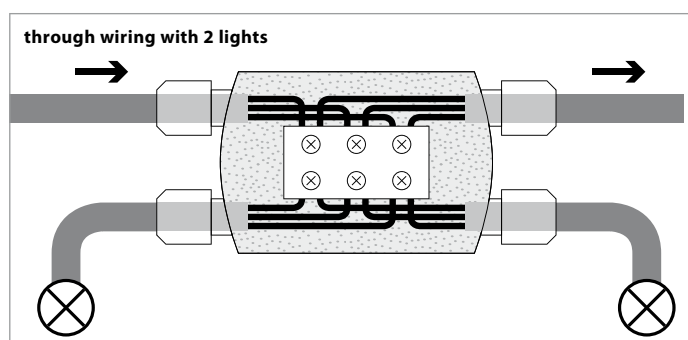
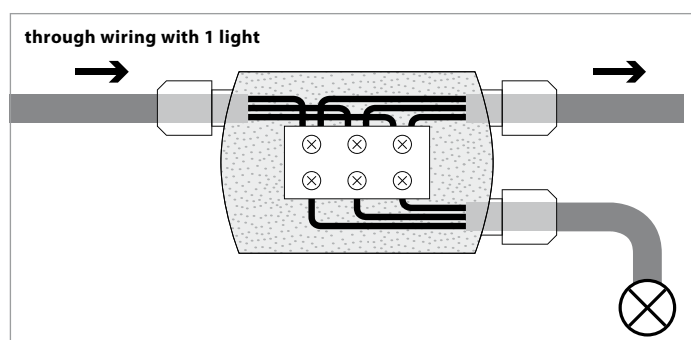
## DESCRIPTION

Connection and distributor systems for connecting cables and attaching lights for use in outdoor areas IP67 (e.g. soil, gravel) or underwater IP68 (e.g. ponds, fountains, swimming pools).

**Caution:** Use in water that is heavily-chlorinated or treated with chemicals or brine is restricted and requires consultation.

## Connection and distributor systems IP68/IP67

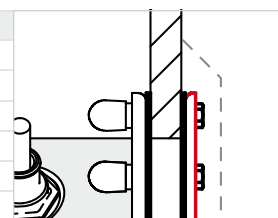
9.9011.02.02	ur	73 x 67 x 30 mm
9.9011.02.03	r	73 x 67 x 30 mm
9.9011.03.03	Distributor box	108 x 65 x 28 mm
9.9011.04.03	Distributor box	108 x 65 x 28 mm
9.9011.00.25	Casting compound	ur



## Flanges for WIBRE build-in pot 4.0274

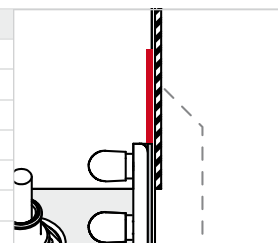
### pressure flange

- 4.0274.00.25 for thin-walled pools or pools with fitted plastic foil  
1 stainless steel ring  $\varnothing$  225 mm  
2 seals  
8 V4A-screws M6x30



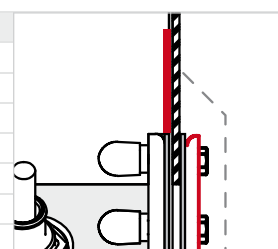
### adhesive flange

- 4.0274.55.55 for adhesive/foil coating  
1 stainless steel ring  $\varnothing$  360 mm  
2 seals  
8 V4A-screws M6x20



### adhesive + pressure flange

- 4.0274.55.25 for adhesive/foil coating with pressure flange  
1 stainless steel ring  $\varnothing$  225 mm  
1 stainless steel ring  $\varnothing$  360 mm  
2 seals  
8 V4A-screws M6x30



## Mounting plates for replacement to Wibre Swimmingpool Lights

### Mounting plates for 4.0271 and 4.0272

- |              |        |     |                           |
|--------------|--------|-----|---------------------------|
| 9.8167.00.00 | square | V4A | 290 x 290 x 11 mm         |
| 9.8267.00.00 | round  | V4A | $\varnothing$ 310 x 11 mm |



### Mounting plate for 4.0199

- 9.0199.20.00 made of V4A stainless steel D300mm with 2 fixationholes (TK270mm), for adaptation to 4.0199 series with already installed housing



## Mounting accessories

### Fastening set

- 9.9268.50.10 V4A stainless steel fastening set for retrofit conversion of Spotlight 4.0267 for Underwater Loudspeaker 4.0014.

### Adaptor ring

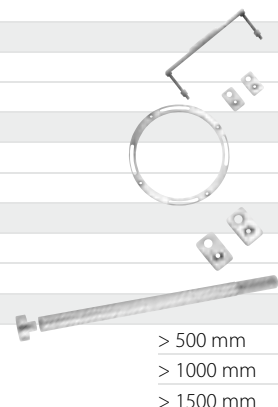
- 9.9268.50.20 V4A stainless steel ring used to correct wrong installation of the Underwater Loudspeaker Pot 4.0013.

### Fastening metal plate

- 9.9268.50.30 V4A stainless steel fixing plates for the cover of Spotlight 4.0267/270 to replace a defective fixing loop.

### Wall duct tube

- 9.9700.00.50 V4A stainless steel wall conduit for Built-in Pot 4.0268,  
9.9700.00.10 used if it is no longer possible to change the cable.  
9.9700.00.15



### Tool kit for 4.0271

- 4.0271.00.20 Set of tools for changing the light source on Light 4.0271, comprising: special spanner SW30, 1.5mm Allen key and socket key SW10.





# Lamps



## Lamps



## WIBRE LIGHTING ELEMENTS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.2325.00.00	QT12	100W		12V	klar	2.200lm	3.000K
7.2217.00.00	QT16	175W		12V	klar	5.100lm	3.000K
7.0218.00.00	QT16	200W		24V	klar	5.800lm	3.050°k
7.0217.00.00	QT16	200W		30V	klar	5.800lm	3.000K
7.0417.00.00	QT16	400W		30V	klar	11.600lm	3.000K
9.2217.00.00	QT16 - SET	175 W		12V			
9.0218.00.00	QT16 - SET	200 W		24V			
9.0217.00.00	QT16 - SET	200 W		30V			
9.0417.00.00	QT16 - SET	400 W		30V			
7.0009.00.00	PAR38 flood	100W	Klemme	12V			
7.0014.00.00	PAR38 spot	120W	Klemme	24V			
7.0015.00.00	PAR38 spot	120W	Klemme	230V			
7.0016.00.00	PAR38 flood	120W	Klemme	230V			



## SPECIAL LOW VOLTAGE LIGHTING ELEMENTS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0303.00.00	D42	50W	BA20d	12V	klar		
7.0305.00.00	D42	75W	BA20d	12V	klar		
7.0311.00.00	D42	100W	BA20d	12V	klar		
7.0313.00.00	D42	50W	BA20d	24V	klar		
7.0315.00.00	D42	75W	BA20d	24V	klar		
7.0205.00.00	D42	100W	BA20d	24V	klar		
7.0245.00.00	D42	100W	BA20d	42V	klar		



## LOW VOLTAGE HALOGEN BULBS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0036.00.00	M36	250W	GY6,35	24V			



## LOW VOLTAGE HALOGEN BULBS WITHOUT REFLECTOR

(z.B. Osram Halostar, Philips Capsuline Pro 12 V, Radium Skylight)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.4001.05.10	QT9	5W	G4	12V	klar	60lm	3.000K
7.4001.10.10	QT9	10W	G4	12V	klar	130lm	3.000K
7.4001.20.10	QT9	20W	G4	12V	klar	320lm	3.000K



## LOW VOLTAGE HALOGEN BULBS WITHOUT REFLECTOR

(z.B. Osram Halostar, Philips Capsuline Pro 12 V, Radium Skylight)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.4021.20.10	QT12	20W	GY6,35	12V	klar	320lm	3.000K
7.4021.35.10	QT12	35W	GY6,35	12V	klar	600lm	3.000K
7.4021.50.10	QT12	50W	GY6,35	12V	klar	910lm	3.000K
7.4021.75.10	QT12	75W	GY6,35	12V	klar	1.450lm	3.000K
7.4021.90.10	QT12	90W	GY6,35	12V	klar	1.800lm	3.000K



## LOW VOLTAGE HALOGEN BULBS WITH GLASS REFLECTOR Ø 35 MM -STANDARD-

(z.B. Osram Decostar 35 Standard, Philips Accentline, Radium Skylight, Sylvania Dichroic) Mittlere Lebensdauer ca. 2.000 Brennstunden

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.4105.10.10	QR-CBC35	10W	GU4	12V	36° Standard	300cd	3.000K
7.4103.20.10	QR-CBC35	20W	GU4	12V	10° Standard	3.200cd	3.000K
7.4105.20.10	QR-CBC35	20W	GU4	12V	36° Standard	500cd	3.000K
7.4103.35.10	QR-CBC35	35W	GU4	12V	10° Standard	5.400cd	3.000K
7.4105.35.10	QR-CBC35	35W	GU4	12V	36° Standard	900cd	3.000K
7.4113.20.10	QR-CBC35	20W	GU4	12V	10° Titan	4.500cd	3.000K
7.4115.20.10	QR-CBC35	20W	GU4	12V	36° Titan	700cd	3.000K
7.4113.35.10	QR-CBC35	35W	GU4	12V	10° Titan	6.200cd	3.000K
7.4115.35.10	QR-CBC35	35W	GU4	12V	36° Titan	1.350cd	3.000K


**LOW VOLTAGE HALOGEN BULBS WITH GLASS REFLECTOR Ø 51 MM -STANDARD-**

(z.B. Osram Decostar 51 Standard, Philips Accentline, Radium Skylight, Sylvania Dichroic) Mittlere Lebensdauer ca. 2.000 Brennstunden

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur	
7.4203.20.10	QR-CBC51	20W	GU5,3	12V	10°	Standard	3.000cd	3.000K
7.4205.20.10	QR-CBC51	20W	GU5,3	12V	36°	Standard	480cd	3.000K
7.4203.35.10	QR-CBC51	35W	GU5,3	12V	10°	Standard	6.000cd	3.000K
7.4205.35.10	QR-CBC51	35W	GU5,3	12V	36°	Standard	1.000cd	3.000K
7.4203.50.10	QR-CBC51	50W	GU5,3	12V	10°	Standard	7.800cd	3.000K
7.4205.50.10	QR-CBC51	50W	GU5,3	12V	36°	Standard	1.450cd	3.000K
7.4213.20.10	QR-CBC51	20W	GU5,3	12V	10°	Titan	5.000cd	3.000K
7.4214.20.10	QR-CBC51	20W	GU5,3	12V	24°	Titan	1.300cd	3.000K
7.4215.20.10	QR-CBC51	20W	GU5,3	12V	36°	Titan	780cd	3.000K
7.4218.20.10	QR-CBC51	20W	GU5,3	12V	60°	Titan	350cd	3.000K
7.4213.35.10	QR-CBC51	35W	GU5,3	12V	10°	Titan	8.000cd	3.000K
7.4214.35.10	QR-CBC51	35W	GU5,3	12V	24°	Titan	3.100cd	3.000K
7.4215.35.10	QR-CBC51	35W	GU5,3	12V	36°	Titan	1.500cd	3.000K
7.4218.35.10	QR-CBC51	35W	GU5,3	12V	60°	Titan	700cd	3.000K
7.4213.50.10	QR-CBC51	50W	GU5,3	12V	10°	Titan	13.000cd	3.000K
7.4214.50.10	QR-CBC51	50W	GU5,3	12V	24°	Titan	4.400cd	3.000K
7.4215.50.10	QR-CBC51	50W	GU5,3	12V	36°	Titan	2.200cd	3.000K
7.4218.50.10	QR-CBC51	50W	GU5,3	12V	60°	Titan	1.100cd	3.000K
7.4223.20.10	QR-CBC51	20W	GU5,3	12V	10°	IRC	6.000cd	3.000K
7.4224.20.10	QR-CBC51	20W	GU5,3	12V	24°	IRC	2.300cd	3.000K
7.4225.20.10	QR-CBC51 (IRC)	20W	GU5,3	12V	36°	IRC	1.000cd	3.000K
7.4228.20.10	QR-CBC51	20W	GU5,3	12V	60°	IRC	450cd	3.000K
7.4223.35.10	QR-CBC51	35W	GU5,3	12V	10°	IRC	12.500cd	3.000K
7.4224.35.10	QR-CBC51	35W	GU5,3	12V	24°	IRC	4.400cd	3.000K
7.4225.35.10	QR-CBC51 (IRC)	35W	GU5,3	12V	36°	IRC	2.200cd	3.000K
7.4228.35.10	QR-CBC51	35W	GU5,3	12V	60°	IRC	1.100cd	3.000K
7.4223.50.10	QR-CBC51	50W	GU5,3	12V	10°	IRC	15.000cd	3.000K
7.4224.50.10	QR-CBC51	50W	GU5,3	12V	24°	IRC	5.700cd	3.000K
7.4225.50.10	QR-CBC51 (IRC)	50W	GU5,3	12V	36°	IRC	2.850cd	3.000K
7.4228.50.10	QR-CBC51	50W	GU5,3	12V	60°	IRC	1.430cd	3.000K
7.4253.20.62	QR-CBC51 ye	20W	GU5,3	12V	12°	gelb		
7.4253.20.66	QR-CBC51 gn	20W	GU5,3	12V	12°	grün		
7.4253.20.60	QR-CBC51 re	20W	GU5,3	12V	12°	rot		
7.4233.20.67	QR-CBC51 bu	20W	GU5,3	12V	12°	blau		
7.4253.20.61	QR-CBC51 or	20W	GU5,3	12V	12°	orange		
7.4253.20.63	QR-CBC51 mg	20W	GU5,3	12V	12°	magenta		
7.4253.35.62	QR-CBC51 ye	35W	GU5,3	12V	12°	gelb		
7.4253.35.66	QR-CBC51 gn	35W	GU5,3	12V	12°	grün		
7.4253.35.60	QR-CBC51 re	35W	GU5,3	12V	12°	rot		
7.4253.35.67	QR-CBC51 bu	35W	GU5,3	12V	12°	blau		
7.4253.35.61	QR-CBC51 or	35W	GU5,3	12V	12°	orange		
7.4253.35.63	QR-CBC51 mg	35W	GU5,3	12V	12°	magenta		
7.4253.50.62	QR-CBC51 ye	50W	GU5,3	12V	12°	gelb		
7.4255.50.62	QR-CBC51 ye	50W	GU5,3	12V	36°	gelb		
7.4253.50.66	QR-CBC51 gn	50W	GU5,3	12V	12°	grün		
7.4255.50.66	QR-CBC51 gn	50W	GU5,3	12V	36°	grün		
7.4253.50.60	QR-CBC51 re	50W	GU5,3	12V	12°	rot		
7.4255.50.60	QR-CBC51 re	50W	GU5,3	12V	36°	rot		
7.4253.50.67	QR-CBC51 bu	50W	GU5,3	12V	12°	blau		
7.4255.50.67	QR-CBC51 bu	50W	GU5,3	12V	36°	blau		
7.4253.50.61	QR-CBC51 or	50W	GU5,3	12V	12°	orange		
7.5255.50.61	QR-CBC51 or	50W	GU5,3	12V	36°	orange		
7.4253.50.63	QR-CBC51 mg	50W	GU5,3	12V	12°	magenta		
7.4255.50.63	QR-CBC51 mg	50W	GU5,3	12V	36°	magenta		


**LOW VOLTAGE HALOGEN BULBS WITH ALUMINIUM REFLECTOR Ø 111 MM**

(z.B. Osram Halospot 111, Philips Aluline Pro 111, Radium Skylight)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur	
7.4402.35.10	QR111	35W	G53	12V	4°	Standard	35.000cd	3.000K
7.4404.35.10	QR111	35W	G53	12V	24°	Standard	2.500cd	3.000K
7.4402.50.10	QR111	50W	G53	12V	8°	Standard	20.000cd	3.000K
7.4404.50.10	QR111	50W	G53	12V	24°	Standard	4.000cd	3.000K
7.4406.50.10	QR111	50W	G53	12V	45°	Standard	1.400cd	3.000K
7.4402.75.10	QR111	75W	G53	12V	8°	Standard	30.000cd	3.000K
7.4404.75.10	QR111	75W	G53	12V	24°	Standard	5.300cd	3.000K
7.4406.75.10	QR111	75W	G53	12V	45°	Standard	2.000cd	3.000K
7.4402.11.10	QR111	100W	G53	12V	8°	Standard	48.000cd	3.000K
7.4404.11.10	QR111	100W	G53	12V	24°	Standard	8.500cd	3.000K
7.4406.11.10	QR111	100W	G53	12V	45°	Standard	2.800cd	3.000K
7.4422.35.10	QR111	35W	G53	12V	8°	IRC	22.500cd	3.000K
7.4424.35.10	QR111	35W	G53	12V	24°	IRC	4.500cd	3.000K
7.4422.50.10	QR111	50W	G53	12V	8°	IRC	33.000cd	3.000K
7.4424.50.10	QR111	50W	G53	12V	24°	IRC	5.800cd	3.000K
7.4422.65.10	QR111	65W	G53	12V	8°	IRC	45.000cd	3.000K
7.4424.65.10	QR111	65W	G53	12V	24°	IRC	8.500cd	3.000K

## Lamps

**HIGH VOLTAGE HALOGEN BULBS, 2 SOCKETS**

(z.B. Osram Haloline, Philips Plusline, Radium Halogen-Glühlampe)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.5301.60.09	QT-DE12	60W	R7s	230V	78 mm	840lm	3.000K
7.5301.11.09	QT-DE12	100W	R7s	230V	78 mm	1.600lm	3.000K
7.5301.16.09	QT-DE12	150W	R7s	230V	78 mm	2.500lm	3.000K
7.5301.21.09	QT-DE12	200W	R7s	230V	78 mm	3.300lm	3.000K
7.5311.11.09	QT-DE12	100W	R7s	230V	117 mm	1.250lm	3.000K
7.5311.16.09	QT-DE12	150W	R7s	230V	117 mm	2.500lm	3.000K
7.5311.21.09	QT-DE12	200W	R7s	230V	117 mm	3.500lm	3.000K
7.5311.26.09	QT-DE12	250W	R7s	230V	117 mm	4.250lm	3.000K
7.5311.31.09	QT-DE12	300W	R7s	230V	117 mm	5.300lm	3.000K
7.5311.51.09	QT-DE12	500W	R7s	230V	117 mm	9.500lm	3.000K
7.5311.76.09	QT-DE12	750W	R7s	230V	188mm	16.500lm	3.000K
7.5311.12.09	QT-DE12	1000W	R7s	230V	188mm	22.000lm	3.000K
7.5311.17.09	QT-DE12	1500W	R7s	230V	253mm	36.000lm	3.000K

**HIGH VOLTAGE HALOGEN BULBS, 1 SOCKET**

(z.B. Osram Halolux Ceran, Philips Halogen A Pro, Radium Halogen, Sylvania DLX-T)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.5551.60.09	QT32	60W	E27	230V	klar		
7.5550.60.09	QT32	60W	E27	230V	matt		
7.5551.75.09	QT32	75W	E27	230V	klar		
7.5550.75.09	QT32	75W	E27	230V	matt		
7.5551.11.09	QT32	100W	E27	230V	klar		
7.5550.11.09	QT32	100W	E27	230V	matt		
7.5551.16.09	QT32	150W	E27	230V	klar		
7.5550.16.09	QT32	150W	E27	230V	matt		
7.5551.26.09	QT32	250W	E27	230V	klar		
7.5550.26.09	QT32	250W	E27	230V	matt		

**HIGH VOLTAGE HALOGEN BULBS**

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0038.00.00	M38	300W	GY9.5	230V			

**HIGH VOLTAGE HALOGEN BULBS**

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0040.00.00	M40	500W	GY9.5	230V			

**HIGH VOLTAGE HALOGEN WITH ALUMINIUM REFLECTOR, 51 MM Ø**

(z.B. Osram Halopar 16, Philips PAR16, Radium PAR16, Sylvania HI-Spot 50)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.5104.25.09	QPAR16	25W	E14	230V	25°		
7.5104.40.09	QPAR16	40W	E14	230V	25°		

**HIGH VOLTAGE HALOGEN WITH ALUMINIUM REFLECTOR, 63 MM Ø**

(z.B. Osram Halopar 20, Philips PAR20, Radium PAR20, Sylvania HI-Spot 63)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.5153.50.09	QPAR20	50W	E27	230V	10°		
7.5155.50.09	QPAR20	50W	E27	230V	30°		

**HIGH VOLTAGE HALOGEN WITH ALUMINIUM REFLECTOR, 51 MM Ø**

(z.B. Osram Halopar 16 Alu, Philips Twistline Alu, Radium Halogen PAR16, Sylvania HI-Spot ES50)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.5054.35.09	QPAR51	35W	GU10	230V	25°	800cd	2.900K
7.5054.50.09	QPAR51	50W	GU10	230V	25°	1.300cd	2.900K
7.5057.50.09	QPAR51	50W	GU10	230V	50°	500cd	2.900K



## LOW VOLTAGE PAR LIGHTS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0011.00.00	PAR36	25W	Klemme	12V	11° x 8°		
7.0018.00.00	PAR36	25W	Klemme	12V	37°x 26°		
7.0012.00.00	PAR36	50W	Klemme	12V	11°x 9°		
7.0013.00.00	PAR36	50W	Klemme	12V	36°x 28°		



## PAR LIGHTS STANDARD

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.6503.60.07	PAR38	60W	E27	230V	12° spot	3.400cd	2700K
7.6505.60.07	PAR38	60W	E27	230V	30° flood	1.200cd	2700K
7.6503.80.07	PAR38	80W	E27	230V	12° spot	5.400cd	2700K
7.6505.80.07	PAR38	80W	E27	230V	30° flood	1.800cd	2700K



## LOW VOLTAGE PAR LIGHTS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0024.00.00	PAR56	300W	Klemme	12V	16°x40°	4.000lm	3.000K



## HIGH VOLTAGE PAR LIGHTS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.0022.00.00	PAR56	300W	GX16d	230V	9°x 12°		
7.0023.00.00	PAR56	300W	GX16d	230V	16°x40°		
7.0027.00.00	PAR56	300W	GX16d	230V	11°x25°		

HIGH VOLTAGE HALOGEN WITH ALUMINIUM REFLECTOR, 95 MM Ø  
(z.B. Osram Halopar 30, Philips PAR30, Radium PAR30, Sylvania HI-Spot 95)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.5203.75.09	QPAR30	75W	E27	230V	10°	6.900cd	2.900K
7.5205.75.09	QPAR30	75W	E27	230V	30°	2.200cd	2.900K



## LAMPES

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.6001.15.07	A60	15W	E27	230V	klar	90lm	2700K
7.6000.15.07	A60	15W	E27	230V	matt	90lm	2700K
7.6001.25.07	A60	25W	E27	230V	klar	220lm	2700K
7.6000.25.07	A60	25W	E27	230V	matt	220lm	2700K
7.6001.40.07	A60	40W	E27	230V	klar	420lm	2700K
7.6000.40.07	A60	40W	E27	230V	matt	420lm	2700K
7.6001.60.07	A60	60W	E27	230V	klar	710lm	2700K
7.6000.60.07	A60	60W	E27	230V	matt	710lm	2700K
7.6001.75.07	A60	75W	E27	230V	klar	940lm	2700K
7.6000.75.07	A60	75W	E27	230V	matt	940lm	2700K



## REFLECTOR LAMPES

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.6639.40.07	R80	40W	E27	230V	80° flood	150cd	2700K
7.6639.60.07	R80	60W	E27	230V	80° flood	260cd	2700K
7.6639.75.07	R80	75W	E27	230V	80° flood	345cd	2700K
7.6639.11.07	R80	100W	E27	230V	80° flood	500cd	2700K

## Lamps



## MERCURY VAPOUR DISCHARGE LAMPS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8701.13.10	HME	125 W	E27	230V	warmweiss		
7.8701.13.22	HME	125 W	E27	230V	neutralweiss		
7.8701.26.10	HME	250W	E40	230V	warmweiss		
7.8701.26.22	HME	250W	E40	230V	neutralweiss		
7.8701.41.10	HME	400W	E40	230V	warmweiss		
7.8701.41.22	HME	400W	E40	230V	neutralweiss		
7.8701.50.10	HME	50W	E27	230V	warmweiss		
7.8701.50.22	HME	50W	E27	230V	neutralweiss		
7.8701.80.10	HME	80W	E27	230V	warmweiss		
7.8701.80.22	HME	80W	E27	230V	neutralweiss		



## HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram Powerball HCI-T, Philips CDM-T, Radium RCI-T, Sylvania CMI-T)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.7201.35.10	HIT-CE	35W	G12	230V	warmweiss	830	3.300lm
7.7211.35.10	HIT-CE	35W	G12	230V	warmweiss	930	3.300lm
7.7211.35.22	HIT-CE	35W	G12	230V	neutralweiss	942	3.300lm
7.7201.70.10	HIT-CE	70W	G12	230V	warmweiss	830	6.600lm
7.7211.70.10	HIT-CE	70W	G12	230V	warmweiss	930	6.600lm
7.7211.70.22	HIT-CE	70W	G12	230V	neutralweiss	942	6.600lm
7.7201.11.10	HIT-CE	100W	G12	230V	warmweiss	830	3.000K
7.7211.11.22	HIT-CE	100W	G12	230V	neutralweiss	942	4.200K
7.7201.16.10	HIT-CE	150W	G12	230V	warmweiss	830	3.000K
7.7211.16.10	HIT-CE	150W	G12	230V	warmweiss	930	14.000lm
7.7211.16.22	HIT-CE	150W	G12	230V	neutralweiss	942	4.200K



## HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram Powerball HCI-TC, Philips CDM-TC, Radium RCI-TC, Sylvania CMI-TC)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.7151.20.10	HIT-TC-CE	20W	G8,5	230V	warmweiss	830	1.500lm
7.7161.35.22	HIT-TC-CE	35W	G8,5	230V	neutralweiss	942	3.200lm
7.7151.35.10	HIT-TC-CE	35W	G8,5	230V	warmweiss	830	3.300lm
7.7161.35.10	HIT-TC-CE	35W	G8,5	230V	warmweiss	930	2.800lm
7.7161.70.10	HIT-TC-CE	70W	G8,5	230V	warmweiss	930	6.300lm
7.7151.70.10	HIT-TC-CE	70W	G8,5	230V	warmweiss	830	6.400lm
7.7161.70.22	HIT-TC-CE	70W	G8,5	230V	neutralweiss	942	6.600lm



## HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Philips CDM-TP)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.7361.70.22	HIT-CE-P	70W	PG12-2	230V	neutralweiss	942	5.800lm
7.7351.70.10	HIT-CE-P	70W	PG12-2	230V	warmweiss	830	6.000lm
7.7361.16.22	HIT-CE-P	150W	PGx12-2	230V	neutralweiss	942	12.000lm
7.7351.16.10	HIT-CE-P	150W	PGx12-2	230V	warmweiss	830	12.000lm



## HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram HQI-T, Radium HRI-T, Sylvania HSI-T)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8051.70.10	HIT	70W	G12	230V	warmweiss	WDL	5.300lm
7.8051.70.22	HIT	70W	G12	230V	neutralweiss	NDL	5.800lm
7.8051.16.10	HIT	150W	G12	230V	warmweiss	WDL	13.000lm
7.8051.16.22	HIT	150W	G12	230V	neutralweiss	NDL	13.000lm
7.8251.70.22	HIT (E27)	70W	E27	230V	NDL		
7.8251.16.22	HIT (E27)	150W	E27	230V	NDL		
7.8251.26.32	HIT (E40)	250W	E40	230V	tageslichtweiss	Daylight	21.000lm
7.8251.41.32	HIT (E40)	400W	E40	230V	Daylight		
7.8251.41.22	HIT (E40)	400W	E40	230V	neutralweiss	NDL	42.000lm
7.8251.12.32	HIT (E40)	1000W	E40	230V	Daylight		



### HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram Powerball HCI-TS, Philips CDM-TD, Radium RCI-TS, Sylvania CMI-TD)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.7251.35.10	HIT-DE-CE	35W	RX7s	230V	warmweiss	830	
7.7251.70.10	HIT-DE-CE	70W	RX7s	230V	warmweiss	830	6.500lm
7.7261.70.22	HIT-DE-CE	70W	RX7s	230V	neutralweiss	942	6.000lm
7.7251.16.10	HIT-DE-CE	150W	RX7s-24	230V	warmweiss	830	14.200lm
7.7261.16.22	HIT-DE-CE	150W	RX7s-24	230V	neutralweiss	942	13.250lm



### HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram HQI-TS Excellence, Radium HRI-TS, Sylvania HSI-TD)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8101.70.10	HIT-DE	70W	RX7s	230V	warmweiss	WDL	5.000lm
7.8101.70.22	HIT-DE	70W	RX7s	230V	neutralweiss	NDL	5.500lm
7.8101.70.32	HIT-DE	70W	RX7s	230V	tageslichtweiß	Daylight	5.500lm
7.8101.16.10	HIT-DE	150W	RX7s-24	230V	warmweiss	WDL	11.000lm
7.8101.16.22	HIT-DE	150W	RX7s-24	230V	neutralweiss	NDL	11.250lm
7.8101.16.32	HIT-DE	150W	RX7s-24	230V	tageslichtweiß	Daylight	12.500lm
7.8101.26.10	HIT-DE	250W	Fc2	230V	warmweiss	WDL	21.000lm
7.8101.26.22	HIT-DE	250W	Fc2	230V	neutralweiss	NDL	20.000lm
7.8101.26.32	HIT-DE	250W	Fc2	230V	tageslichtweiss	Daylight	20.000lm



### HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram Powerball HCI-E/P)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.7501.70.10	HIE-CE	70W	E27	230V	warmweiss	830	7.000lm
7.7511.70.22	HIE-CE	70W	E27	230V	neutralweiss	942	6.600lm
7.7501.11.10	HIE-CE	100W	E27	230V	warmweiss	830	9.000lm
7.7501.16.10	HIE-CE	150W	E27	230V	warmweiss	830	14.200lm
7.7511.16.22	HIE-CE	150W	E27	230V	neutralweiss	942	14.200lm
7.7500.70.10	HIE-CE	70W	E27	230V	warmweiss	830	5.700lm
7.7510.70.22	HIE-CE	70W	E27	230V	neutralweiss	942	5.200lm
7.7500.11.10	HIE-CE	100W	E27	230V	warmweiss	830	8.000lm
7.7500.16.10	HIE-CE	150W	E27	230V	warmweiss	830	13.000lm
7.7510.16.22	HIE-CE	150W	E27	230V	neutralweiss	942	12.000lm



### HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Osram HQI-E)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8201.70.10	HIE	70W	E27	230V	warmweiss	WDL	5.200lm
7.8200.70.10	HIE	70W	E27	230V	warmweiss	WDL	4.700lm
7.8201.70.22	HIE	70W	E27	230V	neutralweiss	NDL	5.600lm
7.8200.70.22	HIE	70W	E27	230V	neutralweiss	NDL	5.100lm
7.8201.11.10	HIE	100W	E27	230V	warmweiss	WDL	8.500lm
7.8200.11.10	HIE	100W	E27	230V	warmweiss	WDL	7.900lm
7.8201.11.22	HIE	100W	E27	230V	neutralweiss	NDL	8.400lm
7.8200.11.22	HIE	100W	E27	230V	neutralweiss	NDL	7.700lm
7.8201.16.10	HIE	150W	E27	230V	warmweiss	WDL	12.900lm
7.8200.16.10	HIE	150W	E27	230V	warmweiss	WDL	11.600lm
7.8201.16.22	HIE	150W	E27	230V	neutralweiss	NDL	12.500lm
7.8200.16.22	HIE	150W	E27	230V	neutralweiss	NDL	11.500lm
7.8200.26.32	HIE	250W	E40	230V	tageslichtweiss	Daylight	17.000lm
7.8200.41.32	HIE	400W	E40	230V	tageslichtweiss	Daylight	31.000lm



### HALOGEN METAL VAPOUR DISCHARGE LAMPS

(z.B. Philips CDM-R)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.7803.35.10	HIPAR-L30	35W	E27	230V	10°	10°/830	44.000cd
7.7805.35.10	HIPAR-L30	35W	E27	230V	30°	30°/830	7.400cd
7.7803.70.10	HIPAR-L30	70W	E27	230V	10°	10°/830	68.000cd
7.7813.70.22	HIPAR-L30	70W	E27	230V	10°	10°/942	63.000cd
7.7805.70.10	HIPAR-L30	70W	E27	230V	30°	30°/830	10.000cd
7.7815.70.22	HIPAR-L30	70W	E27	230V	30°	30°/942	13.000cd
7.7806.70.10	HIPAR-L30	70W	E27	230V	40°	40°/830	10.000cd
7.7816.70.22	HIPAR-L30	70W	E27	230V	40°	40°/942	9.000cd

## Lamps


**SODIUM VAPOUR DISCHARGE LAMPEN**  
 (z.B. Philips SDW-TG)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8401.50.06	HST-CRI	50W	GX12-1	230V	825	2.400lm	2.550K
7.8401.11.06	HST-CRI	100W	GX12-1	230V	825	4.900lm	2.550K
7.8351.35.06	HST-CRI	35W	PG12-1	230V	825	1.300lm	2.500K
7.8351.50.06	HST-CRI	50W	PG12-1	230V	825	2.300lm	2.500K
7.8351.11.06	HST-CRI	100W	PG12-1	230V	825	5.000lm	2.500K
7.8401.11.06-35	HST-CRI	100W	GX12-1	230V	825	4.900lm	2.550K
7.8401.50.06-35	HST-CRI	50W	GX12-1	230V	825	2.400lm	2.550K


**SODIUM VAPOUR DISCHARGE LAMPEN**

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8550.50.01	HST-MF	50W	E27	230V		4.400lm	2.000K
7.8550.70.01	HST-MF	70W	E27	230V		6.500lm	2.000K
7.8550.11.01	HST-MF	100W	E40	230V		10.000lm	2.000K
7.8550.16.01	HST-MF	150W	E40	230V		17.200lm	2.000K
7.8550.26.01	HST-MF	250W	E40	230V		33.000lm	2.000K
7.8550.41.01	HST-MF	400W	E40	230V		55.000lm	2.000K


**SODIUM VAPOUR DISCHARGE LAMPEN**

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8450.70.01	HST-DE	70W	RX7s	230V		6.800lm	2.000K
7.8450.16.01	HST-DE	150W	RX7s-24	230V		15.000lm	2.000K
7.8450.26.01	HST-DE	250W	Fc2	230V		25.500lm	2.000K
7.8450.41.01	HST-DE	400W	Fc2	230V		48.000lm	2.000K


**SODIUM VAPOUR DISCHARGE LAMPEN**

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8601.50.01	HSE-E	50W	E27	230V			2.000K
7.8601.70.01	HSE-E	70W	E27	230V		5.600lm	2.000K

**SODIUM VAPOUR DISCHARGE LAMPEN**

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.8651.11.01	HSE-MF	100W	E40	230V		9.500lm	2.000K
7.8651.16.01	HSE-MF	150W	E40	230V		16.700lm	2.000K
7.8651.26.01	HSE-MF	250W	E40	230V		31.000lm	2.000K
7.8651.41.01	HSE-MF	400W	E40	230V		54.000lm	2.000K


**COMPACT FLUORESCENT LIGHTS**

(z.B. Osram Dulux-S, Philips PL-S, Radium Ralux-S, Sylvania Lynx-S)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3000.05.07	TC-S	5W	G23	230V	108 mm warmweiss extra 827	250lm	2.700K
7.3000.05.10	TC-S	5W	G23	230V	108 mm warmweiss 830	250lm	3.000K
7.3000.05.20	TC-S	5W	G23	230V	108 mm neutralweiss 840	250lm	4.000K
7.3000.07.07	TC-S	7W	G23	230V	137 mm warmweiss extra 827	400lm	2.700K
7.3000.07.10	TC-S	7W	G23	230V	137 mm warmweiss 830	400lm	3.000K
7.3000.07.20	TC-S	7W	G23	230V	137 mm neutralweiss 840	400lm	4.000K
7.3000.07.45	TC-S	7W	G23	230V	137 mm tageslichtweiss 865	375lm	6.500K
7.3000.09.07	TC-S	9W	G23	230V	167 mm warmweiss extra 827	600lm	2.700K
7.3000.09.10	TC-S	9W	G23	230V	167 mm warmweiss 830	600lm	3.000K
7.3000.09.20	TC-S	9W	G23	230V	167 mm neutralweiss 840	600lm	4.000K
7.3000.09.45	TC-S	9W	G23	230V	167 mm tageslichtweiss 865	565lm	6.500K
7.3000.11.07	TC-S	11W	G23	230V	237 mm warmweiss extra 827	900lm	2.700K
7.3000.11.10	TC-S	11W	G23	230V	237 mm warmweiss 830	900lm	3.000K
7.3000.11.20	TC-S	11W	G23	230V	237 mm neutralweiss 840	900lm	4.000K
7.3000.11.45	TC-S	11W	G23	230V	237 mm tageslichtweiss 865	850lm	6.500K





### COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-S/E, Philips PL-S/E, Radium Ralux-S/E, Sylvania Lynx-SE)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3010.05.07	TC-SEL	5W	2G7	230V	108 mm	warmweiss extra 827	250lm 2.700K
7.3010.05.10	TC-SEL	5W	2G7	230V	108 mm	warmweiss 830	250lm 3.000K
7.3010.05.20	TC-SEL	5W	2G7	230V	108 mm	neutralweiss 840	250lm 4.000K
7.3010.07.07	TC-SEL	7W	2G7	230V	137 mm	warmweiss extra 827	400lm 2.700K
7.3010.07.10	TC-SEL	7W	2G7	230V	137 mm	warmweiss 830	400lm 3.000K
7.3010.07.20	TC-SEL	7W	2G7	230V	137 mm	neutralweiss 840	400lm 4.000K
7.3010.09.07	TC-SEL	9W	2G7	230V	167 mm	warmweiss extra 827	600lm 2.700K
7.3010.09.10	TC-SEL	9W	2G7	230V	167 mm	warmweiss 830	600lm 3.000K
7.3010.09.20	TC-SEL	9W	2G7	230V	167 mm	neutralweiss 840	600lm 4.000K
7.3010.11.07	TC-SEL	11W	2G7	230V	237 mm	warmweiss extra 827	900lm 2.700K
7.3010.11.10	TC-SEL	11W	2G7	230V	237 mm	warmweiss 830	900lm 3.000K
7.3010.11.20	TC-SEL	11W	2G7	230V	237 mm	neutralweiss 840	900lm 4.000K



### COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-L, Philips PL-L, Radium Ralux-RX-L, Sylvania Lynx-L)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3100.18.07	TC-L	18W	2G11	230V	217 mm	warmweiss extra 827	1.200lm 2.700K
7.3100.18.10	TC-L	18W	2G11	230V	217 mm	warmweiss 830	1.200lm 3.000K
7.3100.18.20	TC-L	18W	2G11	230V	217 mm	neutralweiss 840	1.200lm 4.000K
7.3100.24.07	TC-L	24W	2G11	230V	317 mm	warmweiss extra 827	1.800lm 2.700K
7.3100.24.10	TC-L	24W	2G11	230V	317 mm	warmweiss 830	1.800lm 3.000K
7.3100.24.20	TC-L	24W	2G11	230V	317 mm	neutralweiss 840	1.800lm 4.000K
7.3100.36.07	TC-L	36W	2G11	230V	411 mm	warmweiss extra 827	2.900lm 2.700K
7.3100.36.10	TC-L	36W	2G11	230V	411 mm	warmweiss 830	2.900lm 3.000K
7.3100.36.20	TC-L	36W	2G11	230V	411 mm	neutralweiss 840	2.900lm 4.000K
7.3100.36.45	TC-L	36W	2G11	230V	411 mm	tageslichtweiss 865	2.750lm 6.500K
7.3100.55.07	TC-L	55W	2G11	230V	533 mm	warmweiss extra 827	4.800lm 2.700K
7.3100.55.10	TC-L	55W	2G11	230V	533 mm	warmweiss 830	4.800lm 3.000K
7.3100.55.20	TC-L	55W	2G11	230V	533 mm	neutralweiss 840	4.800lm 4.000K
7.3100.55.45	TC-L	55W	2G11	230V	533 mm	tageslichtweiss 865	4.550lm 6.500K



### COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-D, Philips PL-C, Radium Ralux-RX-D, Sylvania Lynx-D)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3050.10.07	TC-D	10W	G24d-1	230V	95 mm	warmweiss extra 827	600lm 2.700K
7.3050.10.10	TC-D	10W	G24d-1	230V	95 mm	warmweiss 830	600lm 3.000K
7.3050.10.20	TC-D	10W	G24d-1	230V	95 mm	neutralweiss 840	600lm 4.000K
7.3050.13.07	TC-D	13W	G24d-1	230V	130 mm	warmweiss extra 827	900lm 2.700K
7.3050.13.10	TC-D	13W	G24d-1	230V	130 mm	warmweiss 830	900lm 3.000K
7.3050.13.20	TC-D	13W	G24d-1	230V	130 mm	neutralweiss 840	900lm 4.000K
7.3050.18.07	TC-D	18W	G24d-1	230V	150 mm	warmweiss extra 827	1.200lm 2.700K
7.3050.18.10	TC-D	18W	G24d-1	230V	150 mm	warmweiss 830	1.200lm 3.000K
7.3050.18.20	TC-D	18W	G24d-1	230V	150 mm	neutralweiss 840	1.200lm 4.000K
7.3050.26.07	TC-D	26W	G24d-1	230V	170 mm	warmweiss extra 827	1.800lm 2.700K
7.3050.26.10	TC-D	26W	G24d-1	230V	170 mm	warmweiss 830	1.800lm 3.000K
7.3050.26.20	TC-D	26W	G24d-1	230V	170 mm	neutralweiss 840	1.800lm 4.000K



### COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-D/E, Philips PL-C/4P, Radium Ralux-RX-D/E, Sylvania Lynx-DE)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3060.10.07	TC-DEL	10W	G24q-1	230V	95 mm	warmweiss extra 827	600lm 2.700K
7.3060.10.10	TC-DEL	10W	G24q-1	230V	95 mm	warmweiss 830	600lm 3.000K
7.3060.10.20	TC-DEL	10W	G24q-1	230V	95 mm	neutralweiss 840	600lm 4.000K
7.3060.13.07	TC-DEL	13W	G24q-1	230V	130 mm	warmweiss extra 827	900lm 2.700K
7.3060.13.10	TC-DEL	13W	G24q-1	230V	130 mm	warmweiss 830	900lm 3.000K
7.3060.13.20	TC-DEL	13W	G24q-1	230V	130 mm	neutralweiss 840	900lm 4.000K
7.3060.18.07	TC-DEL	18W	G24q-1	230V	150 mm	warmweiss extra 827	1.200lm 2.700K
7.3060.18.10	TC-DEL	18W	G24q-1	230V	150 mm	warmweiss 830	1.200lm 3.000K
7.3060.18.20	TC-DEL	18W	G24q-1	230V	150 mm	neutralweiss 840	1.200lm 4.000K
7.3060.26.07	TC-DEL	26W	G24q-1	230V	170 mm	warmweiss extra 827	1.800lm 2.700K
7.3060.26.10	TC-DEL	26W	G24q-1	230V	170 mm	warmweiss 830	1.800lm 3.000K
7.3060.26.20	TC-DEL	26W	G24q-1	230V	170 mm	neutralweiss 840	1.800lm 4.000K

## Lamps



## COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-EL, Philips PL-Electronic, Radium Ralux quick, Sylvania Mini-Lynx-D)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3450.03.07	TC-DSE	3W	E14	230V	115 mm warmweiss extra 827	100lm	2.700K
7.3450.05.07	TC-DSE	5W	E14	230V	129 mm warmweiss extra 827	250lm	2.700K
7.3450.07.07	TC-DSE	7W	E14	230V	129 mm warmweiss extra 827	400lm	2.700K
7.3450.11.07	TC-DSE	11W	E14	230V	129 mm warmweiss extra 827	600lm	2.700K



## COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-EL, Philips PL-Electronic, Radium Ralux quick, Sylvania Mini-Lynx-D)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3460.05.07	TC-DSE	5W	E27	230V	114 mm warmweiss extra 827	240lm	2.700K
7.3460.07.07	TC-DSE	7W	E27	230V	138 mm warmweiss extra 827	400lm	2.700K
7.3460.07.40	TC-DSE	7W	E27	230V	138 mm tageslichtweiss 860	400lm	6.000K
7.3460.11.07	TC-DSE	11W	E27	230V	141 mm warmweiss extra 827	600lm	2.700K
7.3460.11.20	TC-DSE	11W	E27	230V	141 mm neutralweiss 840	600lm	4.000K
7.3460.11.40	TC-DSE	11W	E27	230V	138 mm tageslichtweiss 860	600lm	6.000K
7.3460.15.07	TC-DSE	15W	E27	230V	167 mm warmweiss extra 827	900lm	2.700K
7.3460.15.40	TC-DSE	15W	E27	230V	167 mm tageslichtweiss 860	900lm	6.000K
7.3460.20.07	TC-DSE	20W	E27	230V	178 mm warmweiss extra 827	1230lm	2.700K
7.3460.20.40	TC-DSE	20W	E27	230V	178 mm tageslichtweiss 860	1230lm	6.000K



## COMPACT FLUORESCENT LIGHTS

(z.B. Osram Dulux-EL, Philips PL-Electronic, Radium Ralux quick, Sylvania Mini-Lynx-T)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.3400.15.07	TC-TSE	15W	E27	230V	143 mm warmweiß extra 827	900lm	2.700K
7.3400.15.20	TC-TSE	15W	E27	230V	143 mm neutralweiss 840	900lm	4.000K
7.3400.15.40	TC-TSE	15W	E27	230V	143 mm tageslichtweiß 860	900lm	6.000K
7.3400.20.07	TC-TSE	20W	E27	230V	157 mm warmweiss extra 827	1230lm	2.700K
7.3400.20.20	TC-TSE	20W	E27	230V	157 mm neutralweiss 840	900lm	4.000K
7.3400.20.40	TC-TSE	20W	E27	230V	157 mm tageslichtweiß 860	900lm	6.000K
7.3400.23.07	TC-TSE	23W	E27	230V	176 mm warmweiss extra 827	1500lm	2.700K
7.3400.23.20	TC-TSE	23W	E27	230V	176 mm neutralweiss 840	1500lm	4.000K
7.3400.23.40	TC-TSE	23W	E27	230V	176 mm tageslichtweiß 860	1500lm	6.000K



## FLUORESCENT LIGHTS

(z.B. Osram Basic, Philips TL-D Standard, Radium NL-Standard, Sylvania Standard)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung	Lichtstrom	Farbtemperatur
7.1010.15.09	T26	15W	G13	230V	438 mm warmweiss 530	900lm	3.000K
7.1010.15.20	T26	15W	G13	230V	438 mm neutralweiss 640	900lm	4.000K
7.1010.15.45	T26	15W	G13	230V	438 mm tageslichtweiss 765	830lm	6.500K
7.1000.18.09	T26	18W	G13	230V	590 mm warmweiss 530	1.150lm	3.000K
7.1000.18.20	T26	18W	G13	230V	590 mm neutralweiss 640	1.150lm	4.000K
7.1000.18.45	T26	18W	G13	230V	590 mm tageslichtweiss 765	1.050lm	6.500K
7.1010.30.09	T26	30W	G13	230V	895 mm warmweiss 530	2.200lm	3.000K
7.1010.30.20	T26	30W	G13	230V	895mm neutralweiss 640	2.200lm	4.000K
7.1010.30.45	T26	30W	G13	230V	895mm tageslichtweiss 765	1.850lm	6.500K
7.1000.36.09	T26	36W	G13	230V	1.200 mm warmweiss 530	2.850lm	3.000K
7.1000.36.20	T26	36W	G13	230V	1.200 mm neutralweiss 640	2.850lm	4.000K
7.1000.36.45	T26	36W	G13	230V	1.200 mm tageslichtweiss 765	2.500lm	6.500K
7.1010.36.09	T26	36-1W	G13	230V	970 mm warmweiss 530	2.700lm	3.000K
7.1010.36.20	T26	36-1W	G13	230V	970 mm neutralweiss 640	2.800lm	4.000K
7.1010.38.20	T26	38W	G13	230V	1.047 mm neutralweiss 640	4.100lm	4.000K
7.1000.58.09	T26	58W	G13	230V	1.500 mm warmweiss 530	4.600lm	3.000K
7.1000.58.20	T26	58W	G13	230V	1.500 mm neutralweiss 640	4.600lm	4.000K
7.1000.58.45	T26	58W	G13	230V	1.500 mm tageslichtweiss 765	4.000lm	6.500K



## FLUORESCENT LIGHTS

(z.B. Osram Lumilux, Philips Master-TL-D, Radium Spectralux-Plus, Sylvania Luxline-Plus)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung		Lichtstrom	Farbtemperatur
7.1110.15.07	T26	15W	G13	230V	438 mm	warmweiss extra 827	1.000lm	2.700K
7.1110.15.10	T26	15W	G13	230V	438 mm	warmweiss 830	1.000lm	3.000K
7.1110.15.20	T26	15W	G13	230V	438 mm	neutralweiss 840	1.000lm	4.000K
7.1110.15.45	T26	15W	G13	230V	438 mm	tageslichtweiss 865	950lm	6.500K
7.1100.18.07	T26	18W	G13	230V	590 mm	warmweiss extra 827	1.350lm	2.700K
7.1100.18.10	T26	18W	G13	230V	590 mm	warmweiss 830	1.350lm	3.000K
7.1100.18.20	T26	18W	G13	230V	590 mm	neutralweiss 840	1.350lm	4.000K
7.1100.18.45	T26	18W	G13	230V	590 mm	tageslichtweiss 865	1.300lm	6.500K
7.1110.30.07	T26	30W	G13	230V	895 mm	warmweiss extra 827	2.400lm	2.700K
7.1110.30.10	T26	30W	G13	230V	895 mm	warmweiss 830	2.400lm	3.000K
7.1110.30.20	T26	30W	G13	230V	895mm	neutralweiss 840	2.400lm	4.000K
7.1110.30.45	T26	30W	G13	230V	895mm	tageslichtweiss 865	2.350lm	6.500K
7.1100.36.07	T26	36W	G13	230V	1.200 mm	warmweiss extra 827	3.350lm	2.700K
7.1100.36.10	T26	36W	G13	230V	1.200 mm	warmweiss 830	3.350lm	3.000K
7.1100.36.20	T26	36W	G13	230V	1.200 mm	neutralweiss 840	3.350lm	4.000K
7.1100.36.45	T26	36W	G13	230V	1.200 mm	tageslichtweiss 865	3.250lm	6.500K
7.1110.36.10	T26	36-1W	G13	230V	970 mm	warmweiss 830	3.100lm	3.000K
7.1110.36.20	T26	36-1W	G13	230V	970 mm	neutralweiss 840	3.100lm	4.000K
7.1110.36.07	T26	36-1W	G13	230V	970 mm	warmweiss extra 827	3.100lm	2.700K
7.1110.38.10	T26	38W	G13	230V	1.047 mm	warmweiss 830	3.200lm	3.000K
7.1110.38.20	T26	38W	G13	230V	1.047 mm	neutralweiss 840	3.200lm	4.000K
7.1100.58.07	T26	58W	G13	230V	1.500 mm	warmweiss extra 827	5.200lm	2.700K
7.1100.58.10	T26	58W	G13	230V	1.500 mm	warmweiss 830	5.200lm	2.700K
7.1100.58.20	T26	58W	G13	230V	1.500 mm	neutralweiss 840	5.200lm	4.000K
7.1100.58.45	T26	58W	G13	230V	1.500 mm	tageslichtweiss 865	5.000lm	6.500K



## FLUORESCENT LIGHTS

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung		Lichtstrom	Farbtemperatur
7.1400.18.60	T26	18W	G13	230V	590 mm	rot 60		
7.1400.18.62	T26	18W	G13	230V	590 mm	gelb 62		
7.1400.18.66	T26	18W	G13	230V	590 mm	grün 66		
7.1400.18.67	T26	18W	G13	230V	590 mm	blau 67		
7.1410.30.67	T26	30W	G13	230V	895 mm	blau 67		
7.1400.36.60	T26	36W	G13	230V	1.200 mm	rot 60		
7.1400.36.62	T26	36W	G13	230V	1.200 mm	gelb 62		
7.1400.36.66	T26	36W	G13	230V	1.200 mm	grün 66		
7.1400.36.67	T26	36W	G13	230V	1.200 mm	blau 67		
7.1400.58.60	T26	58W	G13	230V	1.500 mm	rot 60		
7.1400.58.62	T26	58W	G13	230V	1.500 mm	gelb 62		
7.1400.58.66	T26	58W	G13	230V	1.500 mm	grün 66		
7.1400.58.67	T26	58W	G13	230V	1.500 mm	blau 67		



## FLUORESCENT LIGHTS

(z.B. Osram Basic, Philips TL-Mini, Radium NL-Standard, Sylvania Standard)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung		Lichtstrom	Farbtemperatur
7.2100.06.09	T16	6W	G5	230V	212mm	warmweiss 530	280lm	3.000K
7.2100.06.20	T16	6W	G5	230V	212mm	neutralweiss 640	280lm	4.000K
7.2100.06.40	T16	6W	G5	230V	212mm	tageslichtweiss 765	280lm	6.500K
7.2100.08.09	T16	8W	G5	230V	288mm	warmweiss 530	400lm	3.000K
7.2100.08.20	T16	8W	G5	230V	288mm	neutralweiss 640	400lm	4.000K
7.2100.08.40	T16	8W	G5	230V	288mm	tageslichtweiss 765	400lm	6.500K
7.2100.13.09	T16	13W	G5	230V	517mm	warmweiss 530	880lm	3.000K
7.2100.13.20	T16	13W	G5	230V	517mm	neutralweiss 640	880lm	4.000K
7.2100.13.40	T16	13W	G5	230V	517mm	tageslichtweiss 765	880lm	6.500K

## Lamps



## FLUORESCENT LIGHTS

(z.B. Osram Lumilux HE/HO, Philips Master HE/HO, Radium Bonalux, Sylvania Luxline Plus FHE/FHO)

Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung		Lichtstrom	Farbtemperatur	
7.2210.14.07	T16	14W	G5	230V	549 mm	warmweiss extra	827	1.200lm	2.700K
7.2210.14.10	T16	14W	G5	230V	549 mm	warmweiss	830	1.200lm	3.000K
7.2210.14.20	T16	14W	G5	230V	549 mm	neutralweiss	840	1.200lm	4.000K
7.2210.14.45	T16	14W	G5	230V	549 mm	tageslichtweiss	865	1.100lm	6.500K
7.2200.24.07	T16	24W	G5	230V	549 mm	warmweiss extra	827	1.750lm	2.700K
7.2200.24.10	T16	24W	G5	230V	549 mm	warmweiss	830	1.750lm	3.000K
7.2200.24.20	T16	24W	G5	230V	549 mm	neutralweiss	840	1.750lm	4.000K
7.2200.24.45	T16	24W	G5	230V	549 mm	tageslichtweiss	865	1.600lm	6.500K
7.2210.21.07	T16	21W	G5	230V	849 mm	warmweiss extra	827	1.900lm	2.700K
7.2210.21.10	T16	21W	G5	230V	849 mm	warmweiss	830	1.900lm	3.000K
7.2210.21.20	T16	21W	G5	230V	849 mm	neutralweiss	840	1.900lm	4.000K
7.2210.21.45	T16	21W	G5	230V	849 mm	tageslichtweiss	865	1.750lm	6.500K
7.2200.39.07	T16	39W	G5	230V	849 mm	warmweiss extra	827	3.100lm	2.700K
7.2200.39.10	T16	39W	G5	230V	849 mm	warmweiss	830	3.100lm	3.000K
7.2200.39.20	T16	39W	G5	230V	849 mm	neutralweiss	840	3.100lm	4.000K
7.2200.39.45	T16	39W	G5	230V	849 mm	tageslichtweiss	865	2.850lm	6.500K
7.2210.28.07	T16	28W	G5	230V	1.149 mm	warmweiss extra	827	2.600lm	2.700K
7.2210.28.10	T16	28W	G5	230V	1.149 mm	warmweiss	830	2.600lm	3.000K
7.2210.28.20	T16	28W	G5	230V	1.149 mm	neutralweiss	840	2.600lm	4.000K
7.2210.28.45	T16	28W	G5	230V	1.149 mm	tageslichtweiss	865	2.400lm	6.500K
7.2200.54.07	T16	54W	G5	230V	1.149 mm	warmweiss extra	827	4.450lm	2.700K
7.2200.54.10	T16	54W	G5	230V	1.149 mm	warmweiss	830	4.450lm	3.000K
7.2200.54.20	T16	54W	G5	230V	1.149 mm	neutralweiss	840	4.450lm	4.000K
7.2200.54.45	T16	54W	G5	230V	1.149 mm	tageslichtweiss	865	4.050lm	6.500K
7.2210.35.07	T16	35W	G5	230V	1.449 mm	warmweiss extra	827	3.300lm	2.700K
7.2210.35.10	T16	35W	G5	230V	1.449 mm	warmweiss	830	3.300lm	3.000K
7.2210.35.20	T16	35W	G5	230V	1.449 mm	neutralweiss	840	3.300lm	4.000K
7.2210.35.45	T16	35W	G5	230V	1.449 mm	tageslichtweiss	865	3.050lm	6.500K
7.2200.49.07	T16	49W	G5	230V	1.449 mm	warmweiss extra	827	4.300lm	2.700K
7.2200.49.10	T16	49W	G5	230V	1.449 mm	warmweiss	830	4.300lm	3.000K
7.2200.49.20	T16	49W	G5	230V	1.449 mm	neutralweiss	840	4.300lm	4.000K
7.2200.49.45	T16	49W	G5	230V	1.449 mm	tageslichtweiss	865	4.100lm	6.500K
7.2200.80.07	T16	80W	G5	230V	1.449 mm	warmweiss extra	827	6.150lm	2.700K
7.2200.80.10	T16	80W	G5	230V	1.449 mm	warmweiss	830	6.150lm	3.000K
7.2200.80.20	T16	80W	G5	230V	1.449 mm	neutralweiss	840	6.150lm	4.000K
7.2200.80.45	T16	80W	G5	230V	1.449 mm	tageslichtweiss	865	5.700lm	6.500K



## FLUORESCENT LIGHTS

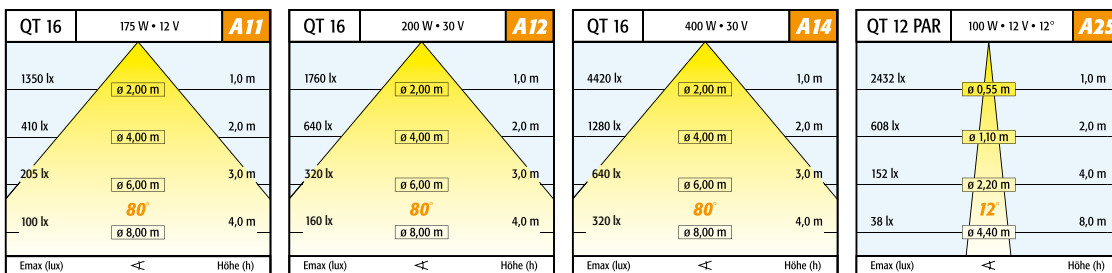
Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung		Lichtstrom	Farbtemperatur
7.2410.14.60	T16	14W	G5	230V	549 mm	rot	60	
7.2410.14.66	T16	14W	G5	230V	549 mm	grün	66	
7.2410.14.67	T16	14W	G5	230V	549 mm	blau	67	
7.2400.24.60	T16	24W	G5	230V	549 mm	rot	60	
7.2400.24.66	T16	24W	G5	230V	549 mm	grün	66	
7.2400.24.67	T16	24W	G5	230V	549 mm	blau	67	
7.2410.21.60	T16	21W	G5	230V	849 mm	rot	60	
7.2410.21.66	T16	21W	G5	230V	849 mm	grün	66	
7.2410.21.67	T16	21W	G5	230V	849 mm	blau	67	
7.2400.39.60	T16	39W	G5	230V	849 mm	rot	60	
7.2400.39.66	T16	39W	G5	230V	849 mm	grün	66	
7.2400.39.67	T16	39W	G5	230V	849 mm	blau	67	
7.2410.28.60	T16	28W	G5	230V	1.149 mm	rot	60	
7.2410.28.66	T16	28W	G5	230V	1.149 mm	grün	66	
7.2410.28.67	T16	28W	G5	230V	1.149 mm	blau	67	
7.2400.54.60	T16	54W	G5	230V	1.149 mm	rot	60	
7.2400.54.66	T16	54W	G5	230V	1.149 mm	grün	66	
7.2400.54.67	T16	54W	G5	230V	1.149 mm	blau	67	
7.2410.35.60	T16	35W	G5	230V	1.449 mm	rot	60	
7.2410.35.66	T16	35W	G5	230V	1.449 mm	grün	66	
7.2410.35.67	T16	35W	G5	230V	1.449 mm	blau	67	
7.2400.80.60	T16	80W	G5	230V	1.449 mm	rot	60	
7.2400.80.66	T16	80W	G5	230V	1.449 mm	grün	66	
7.2400.80.67	T16	80W	G5	230V	1.449 mm	blau	67	

## FLUORESCENT LIGHTS

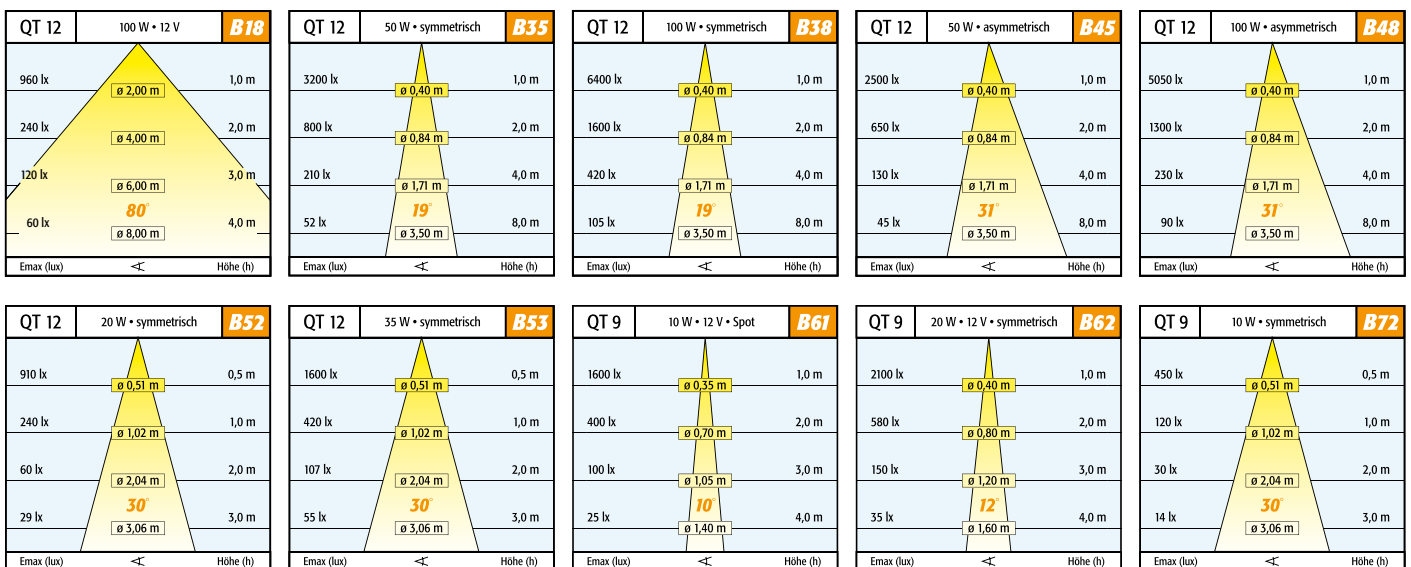
Artikelnummer	Leuchtmittel	Wattage	Fassung	Spannung	Ausführung		Lichtstrom	Farbtemperatur
7.1061.00.00	MICRO-LYNX F	7W	GX53	230V				

# Light distribution curves

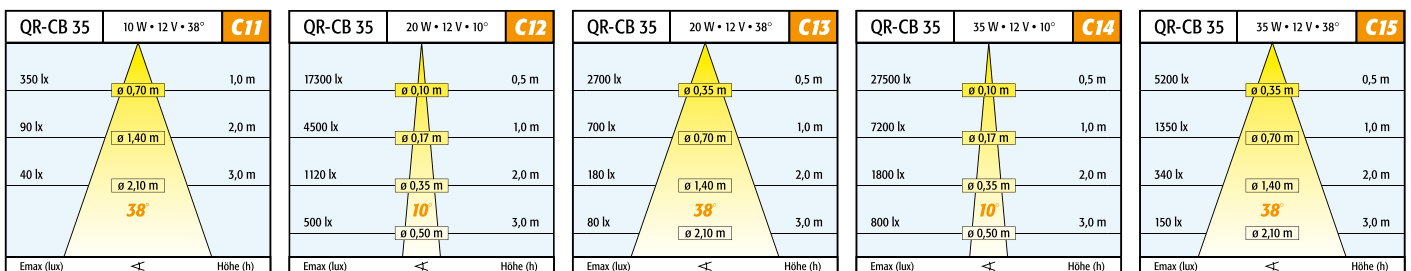
## WIBRE A11-A25



## QT9 • QT12 B18-B72

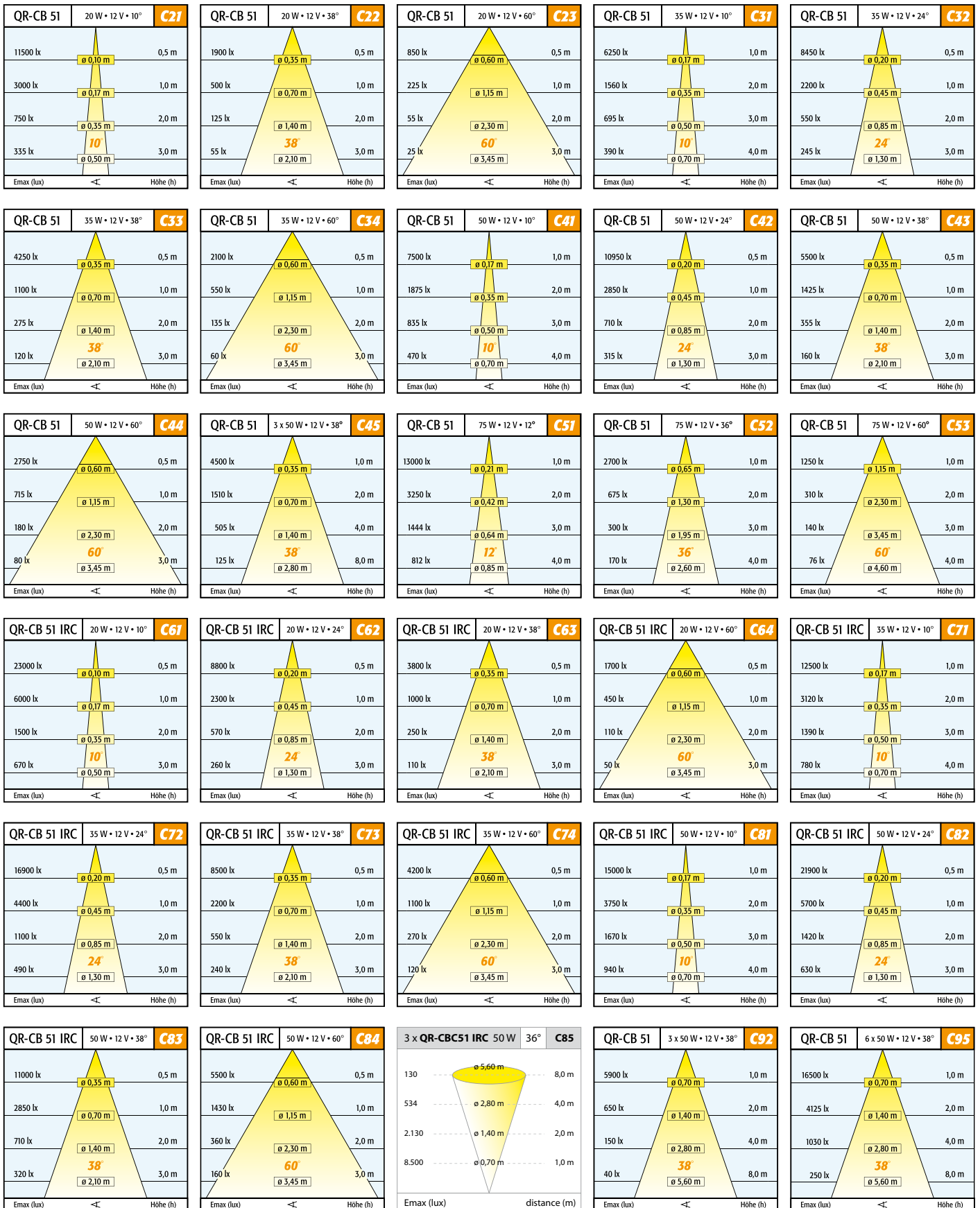


## QR-CB 35 • QR-CB 51 C11-C15



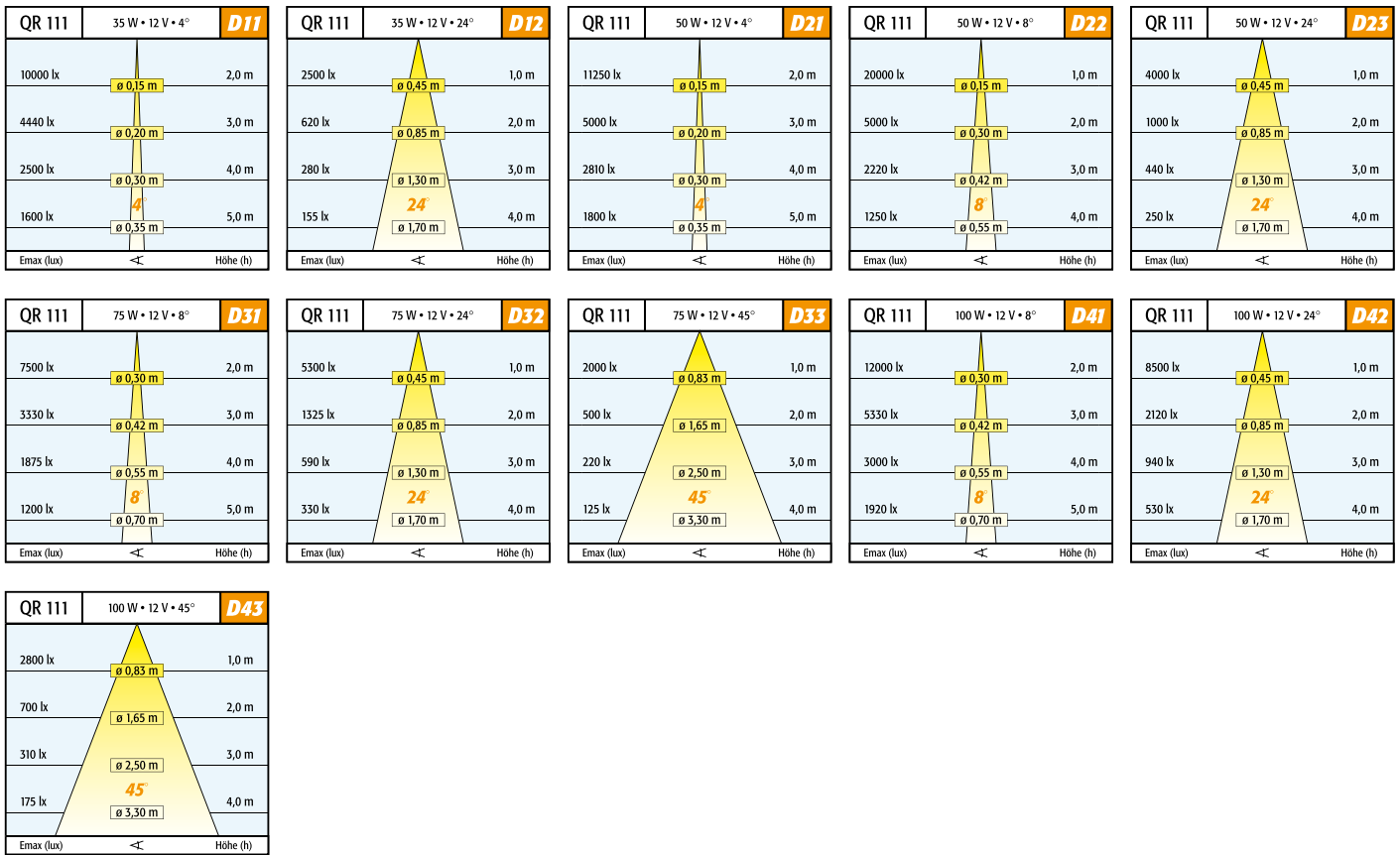
# Light distribution curve

## QR-CB 35 · QR-CB 51 C21–C95

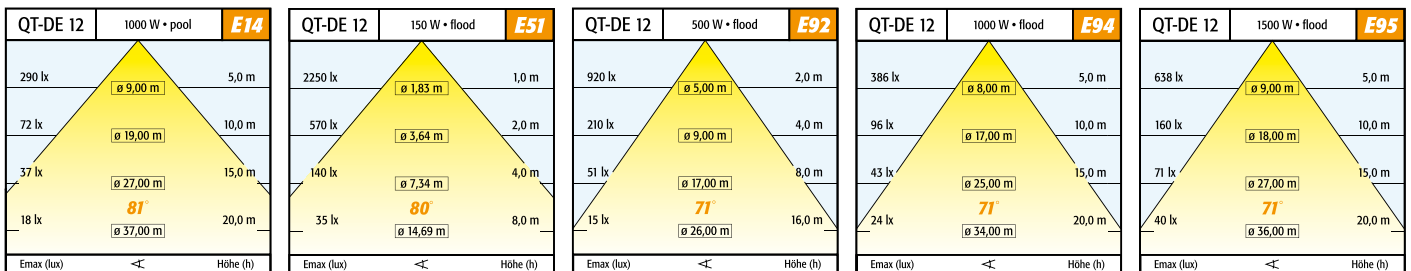


# Light distribution curve

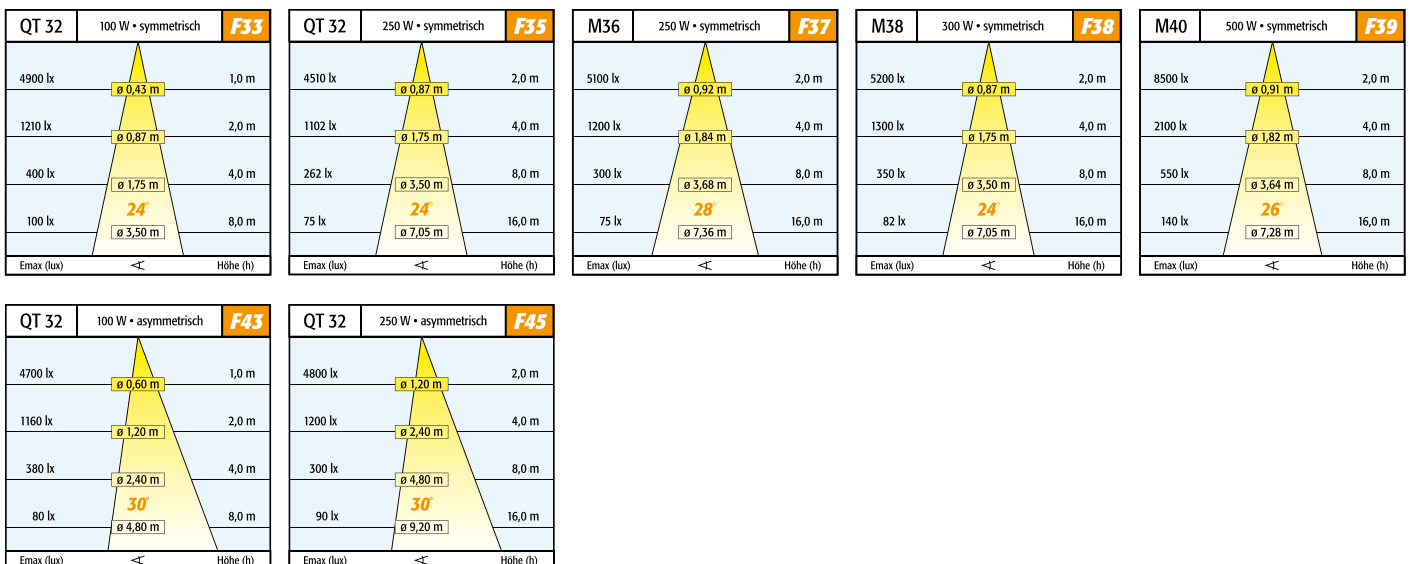
## QR 111 D11-D43



## QT-DE 12 E14-E95

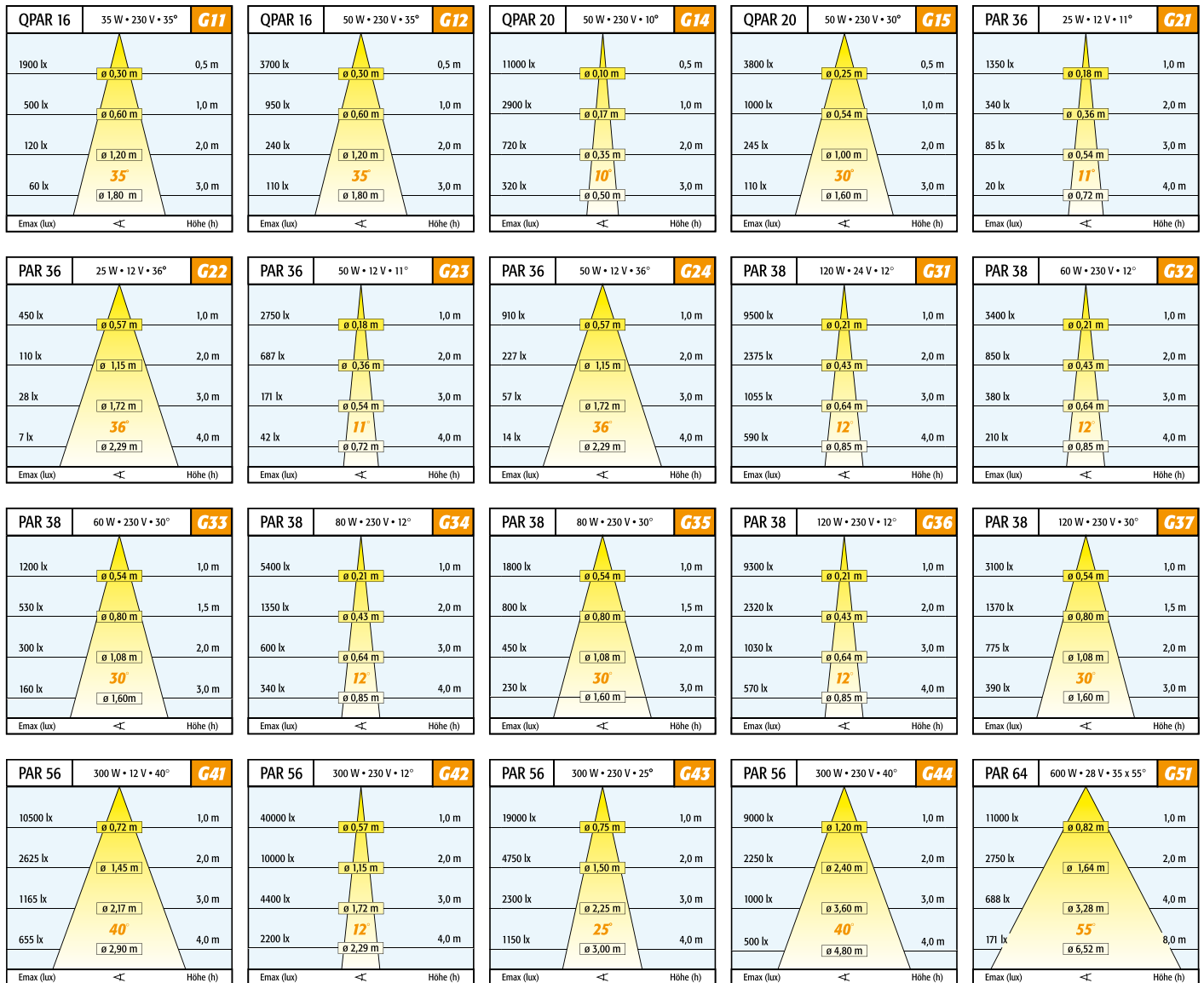


## QT 32 • M38 • M40 F33-F45



# Light distribution curve

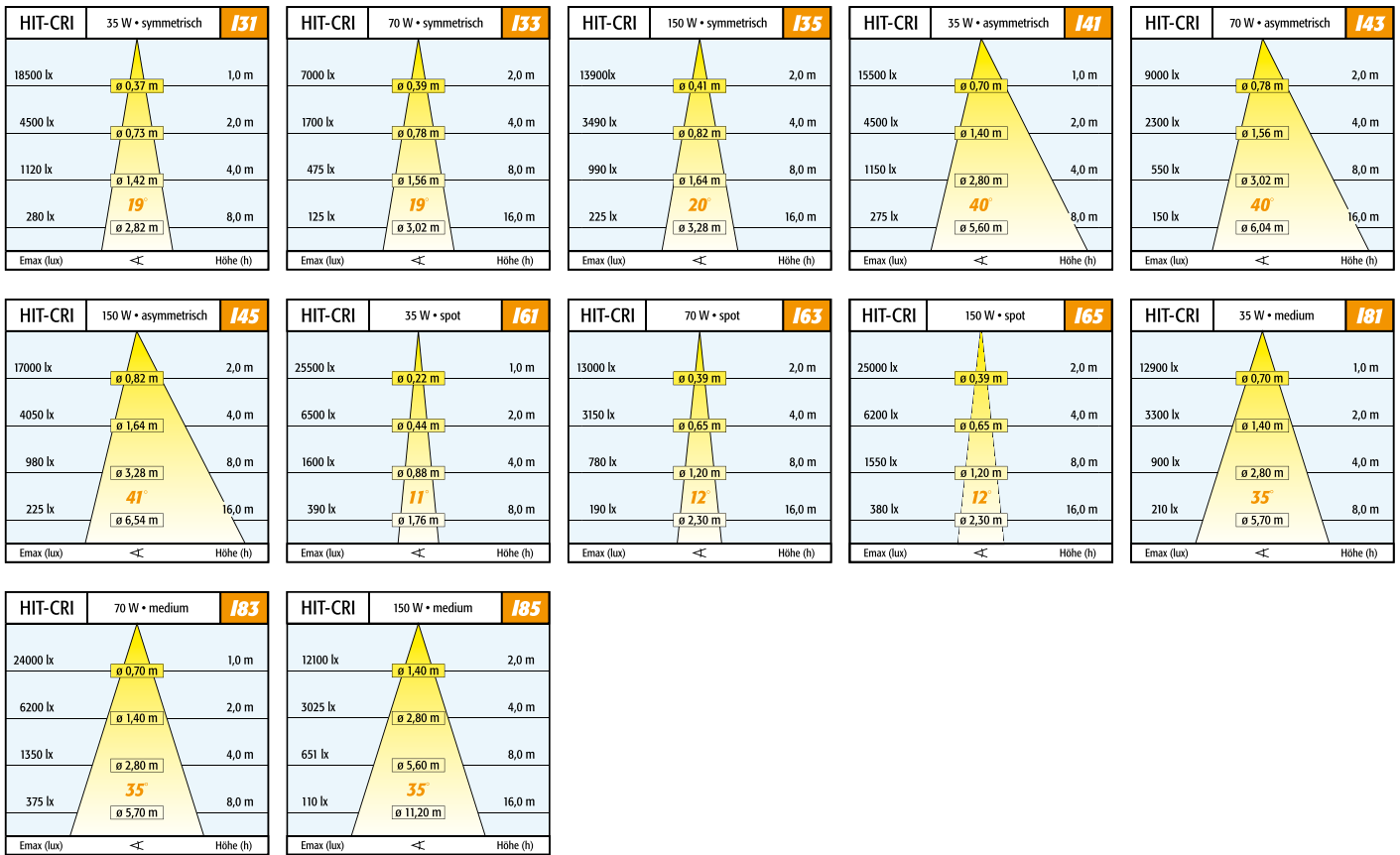
## PAR G11-G51



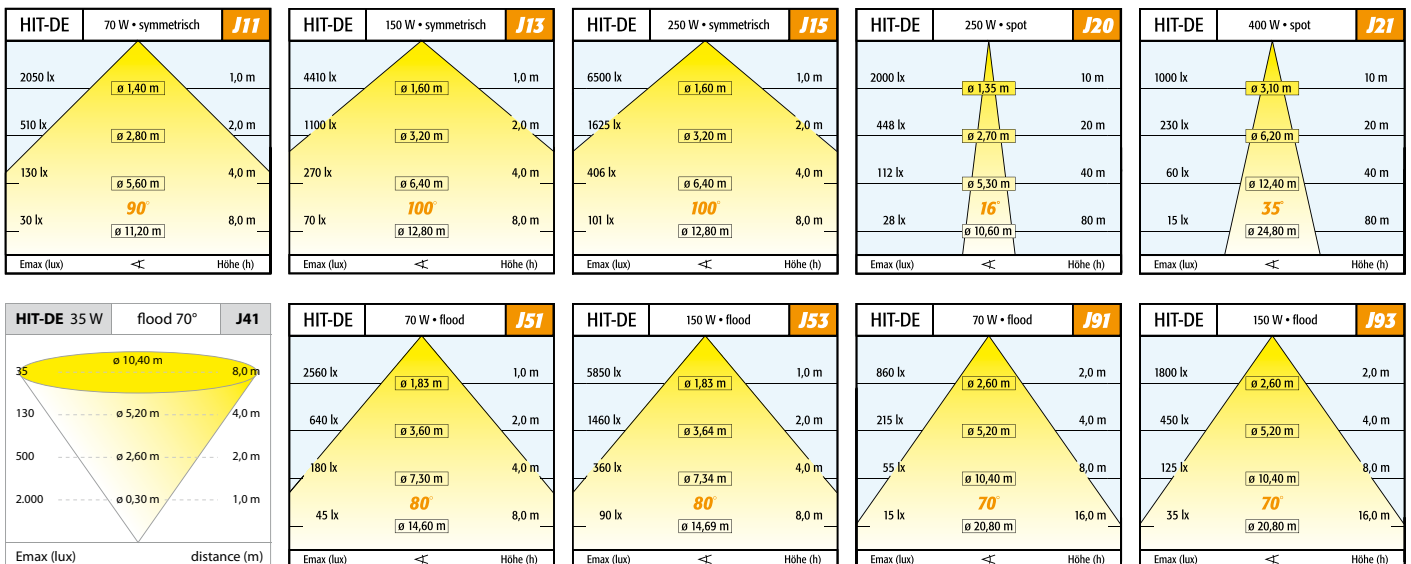


# Light distribution curve

## HIT-CRI I31-I85

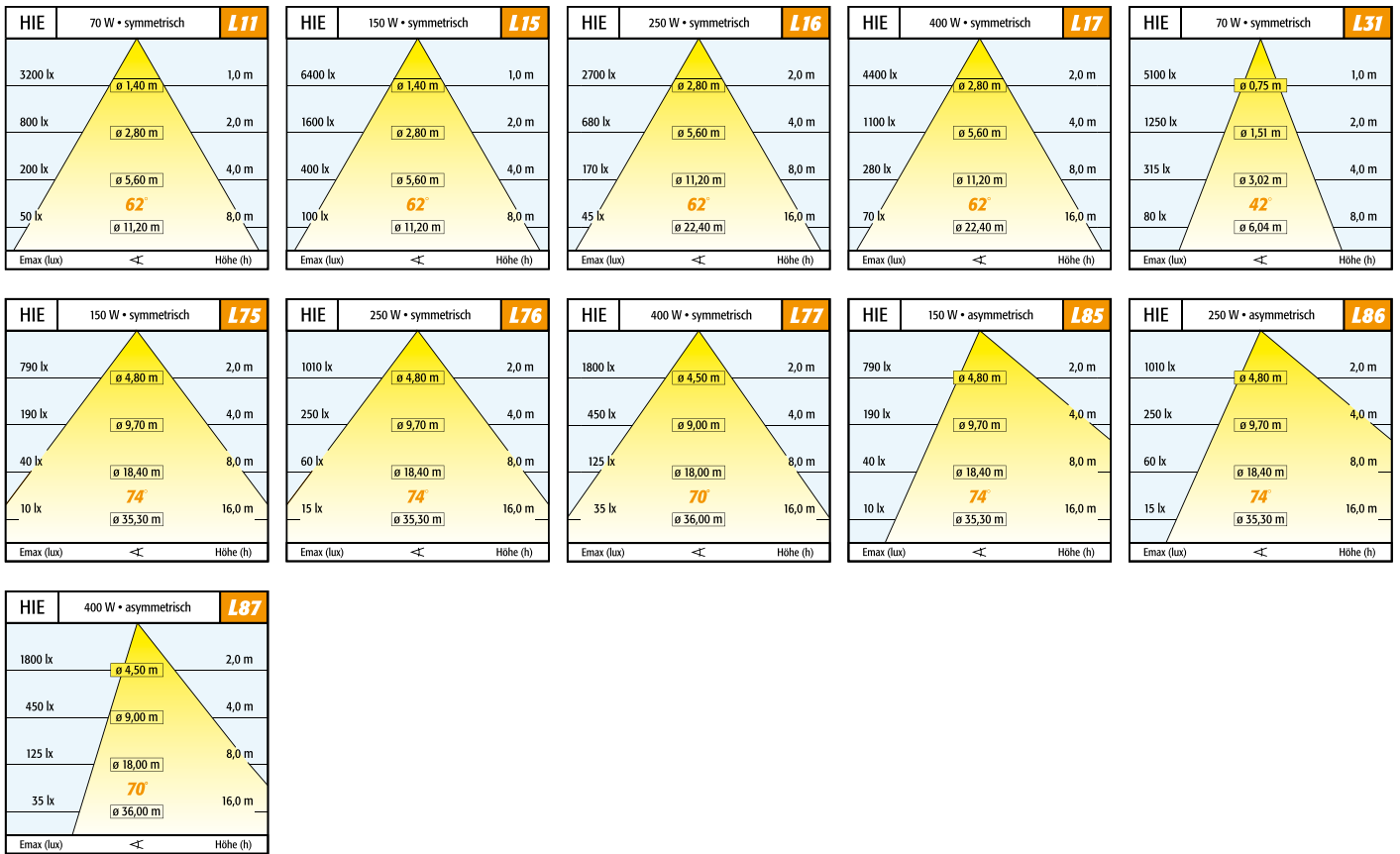


## HIT-DE J11-J93



# Light distribution curve

## HIE L11-L87



## HIT M14-M33

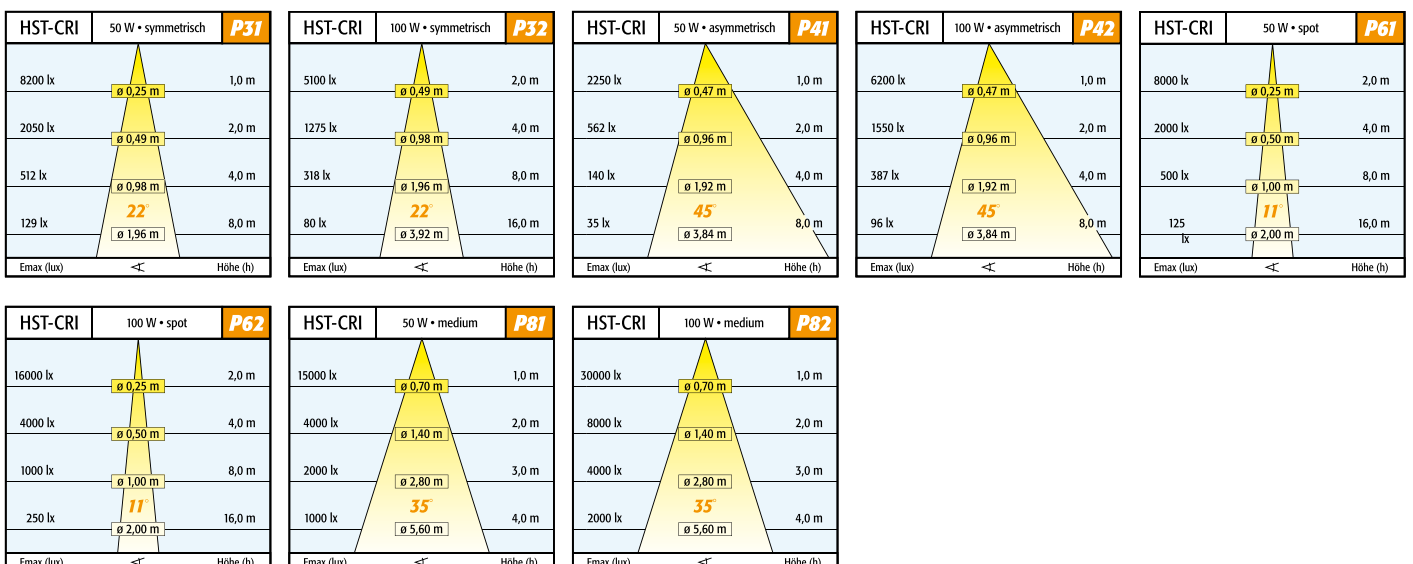


# Light distribution curve

## HME N12-N85

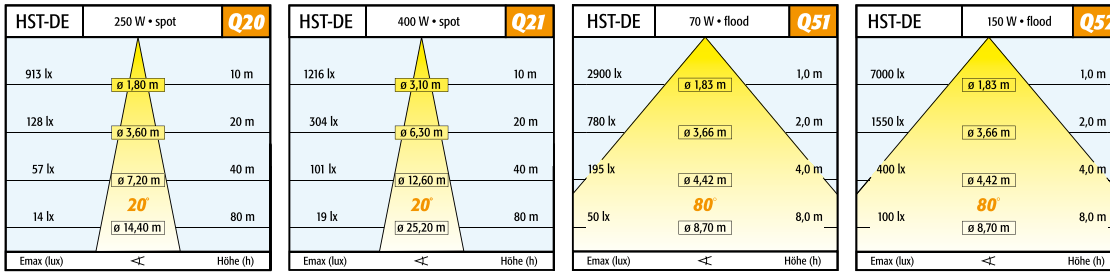


## HST-CRI P31-P82

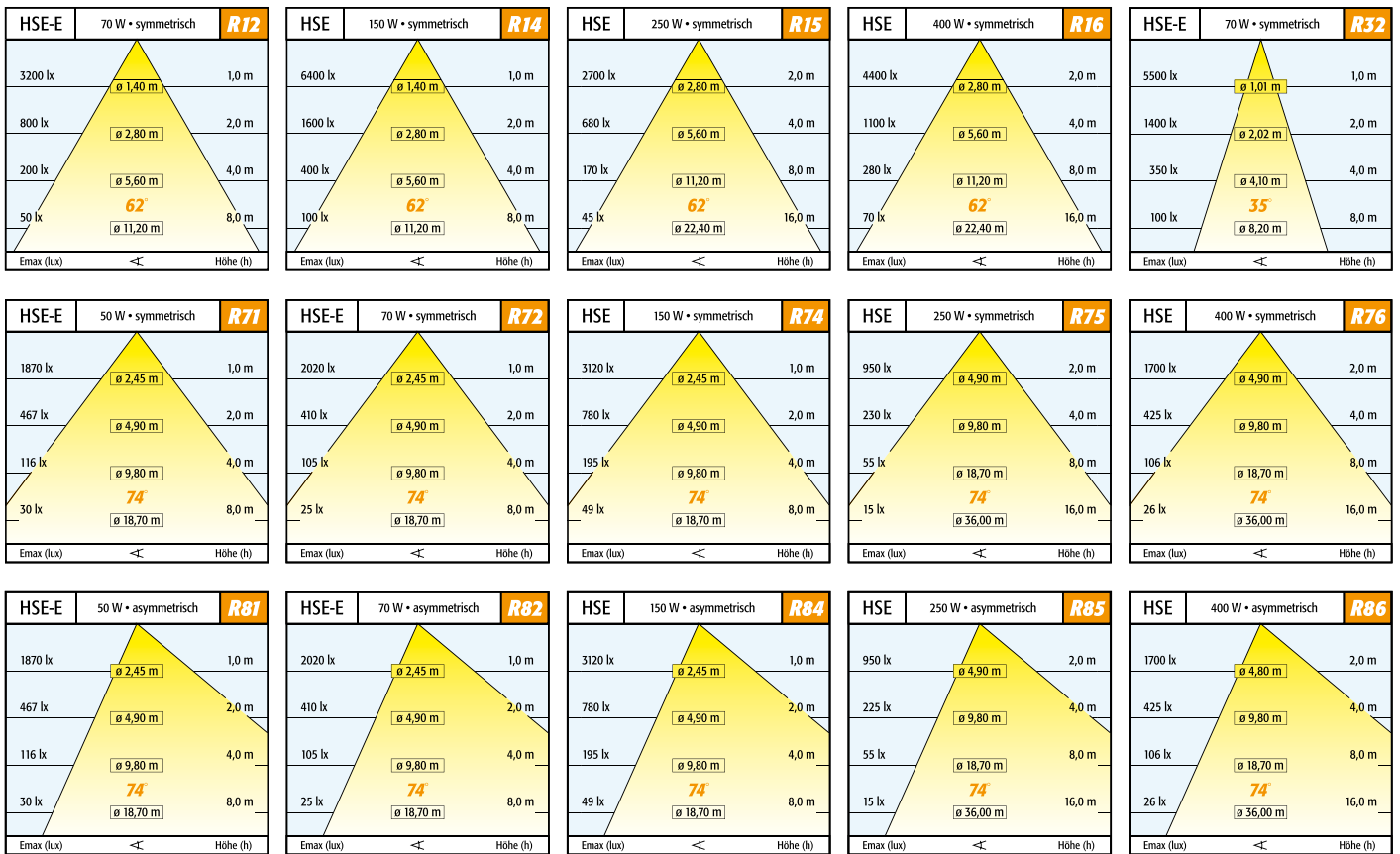


# Light distribution curve

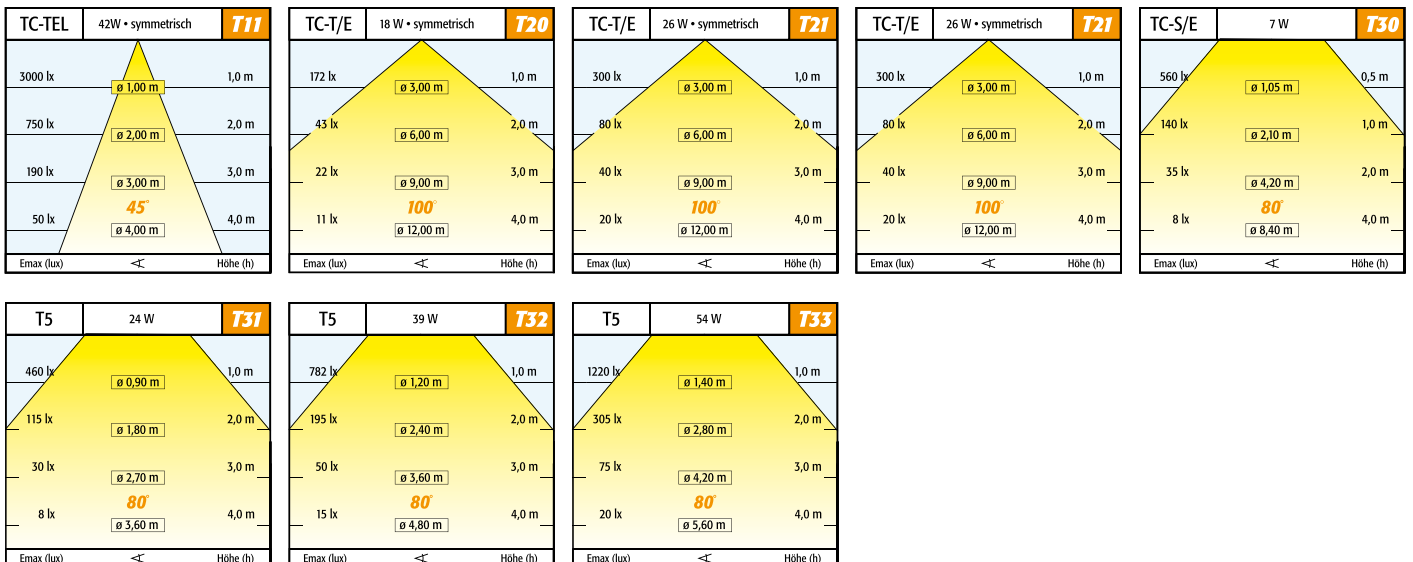
## HST-DE Q20-Q52



## HSE R12-R86



## TC-TEL • TC-T/E • TC-S/E • T5 T11-T33



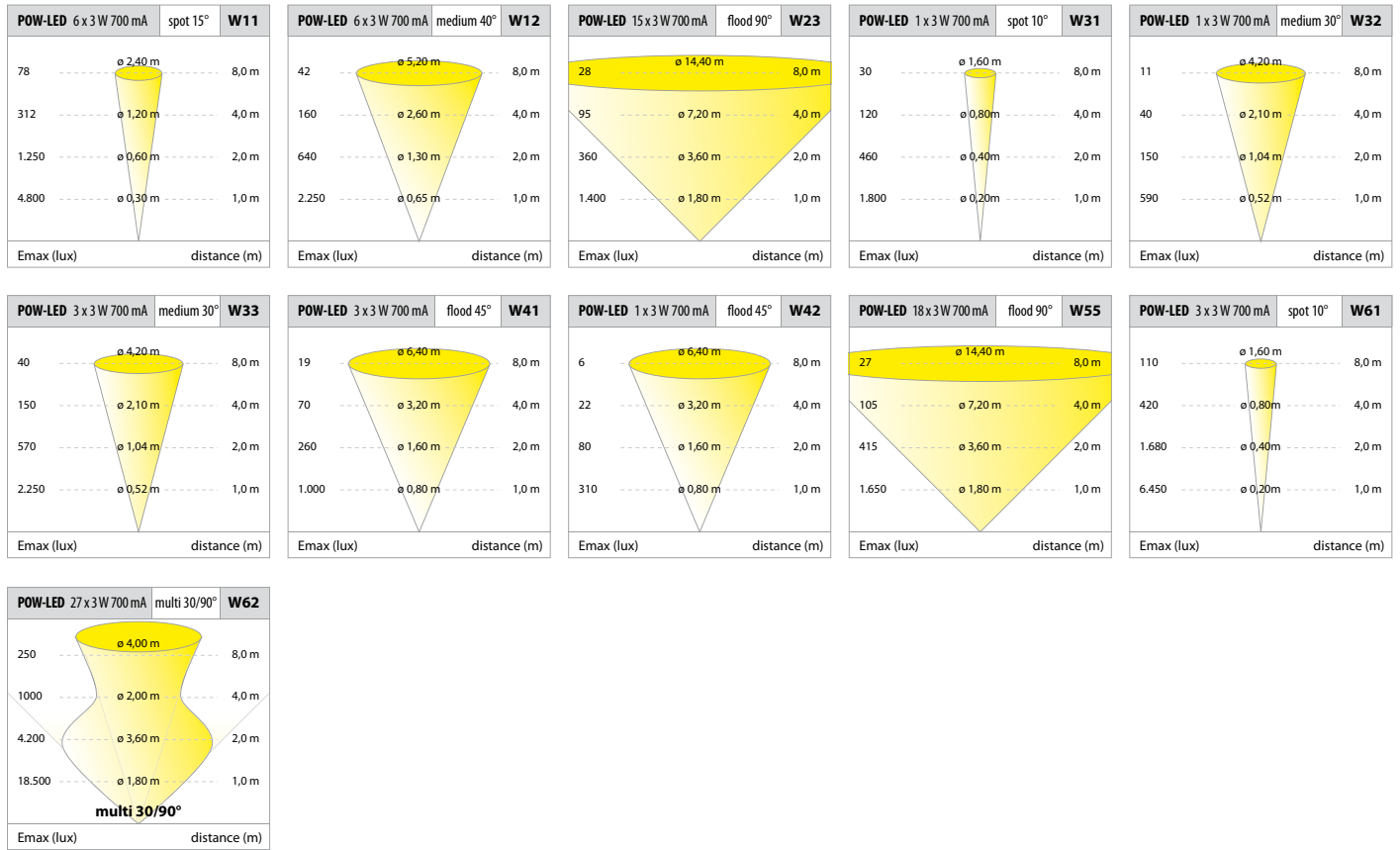
# Light distribution curve

## POW-LED 350 mA V12-V73



# Light distribution curve

## POW-LED 700 mA W11–W62



## Index

4.0004.00.09	148	4.0011.20.07	96	4.0026.20.15	97	4.0061.44.09	100	4.0072.30.19	77
4.0004.00.11	148	4.0011.40.01	96	4.0026.20.16	97	4.0061.44.20	100	4.0072.30.20	77
4.0004.00.13	148	4.0011.40.02	96	4.0026.20.17	97	4.0061.44.35	100	4.0072.30.29	77
4.0004.00.16	148	4.0011.40.03	96	4.0026.20.19	97	4.0061.44.50	100	4.0072.30.35	77
4.0004.05.11	148	4.0011.40.04	96	4.0026.40.01	97	4.0061.44.51	100	4.0072.30.39	77
4.0004.05.16	148	4.0011.40.05	96	4.0026.40.02	97	4.0069.00.00	147	4.0072.30.50	77
4.0004.40.11	148	4.0011.40.06	96	4.0026.40.03	97	4.0069.01.00	147	4.0077.00.10	78
4.0004.40.13	148	4.0011.40.07	96	4.0026.40.04	97	4.0069.02.00	147	4.0077.00.11	78
4.0004.40.16	148	4.0012.00.00	56	4.0026.40.05	97	4.0070.00.30	78	4.0077.00.12	78
4.0004.45.11	148	4.0012.01.00	59	4.0026.40.06	97	4.0070.00.31	78	4.0077.00.13	78
4.0004.45.16	148	4.0012.03.00	59	4.0026.40.07	97	4.0070.00.32	78	4.0080.00.11	62
4.0006.00.00	148	4.0012.04.00	59	4.0026.40.09	97	4.0070.00.33	78	4.0080.00.12	62
4.0006.40.00	148	4.0012.10.00	59	4.0026.40.11	97	4.0071.20.01	99	4.0080.00.13	62
4.0006.41.00	148	4.0012.20.11	59	4.0026.40.12	97	4.0071.20.02	99	4.0080.00.14	62
4.0010.10.01	96	4.0012.20.12	59	4.0026.40.13	97	4.0071.20.03	99	4.0080.00.15	62
4.0010.10.02	96	4.0012.20.13	59	4.0026.40.14	97	4.0071.20.06	99	4.0080.00.16	62
4.0010.10.03	96	4.0012.20.16	59	4.0026.40.15	97	4.0071.20.09	99	4.0080.00.17	62
4.0010.10.04	96	4.0012.20.19	59	4.0026.40.16	97	4.0071.20.11	99	4.0080.00.19	62
4.0010.10.05	96	4.0012.40.11	59	4.0026.40.17	97	4.0071.20.12	99	4.0080.00.20	62
4.0010.10.06	96	4.0012.40.12	59	4.0026.40.19	97	4.0071.20.13	99	4.0080.00.35	62
4.0010.10.07	96	4.0012.40.13	59	4.0036.00.25	79	4.0071.20.16	99	4.0080.00.50	62
4.0010.20.01	96	4.0012.40.16	59	4.0036.00.26	79	4.0071.20.19	99	4.0083.00.11	63
4.0010.20.02	96	4.0012.40.19	59	4.0036.00.50	79	4.0071.20.20	99	4.0083.00.12	63
4.0010.20.03	96	4.0013.00.07	56	4.0036.00.51	79	4.0071.20.35	99	4.0083.00.13	63
4.0010.20.04	96	4.0014.00.07	56	4.0036.40.25	79	4.0071.40.01	99	4.0083.00.14	63
4.0010.20.05	96	4.0014.01.07	56	4.0036.40.26	79	4.0071.40.02	99	4.0083.00.15	63
4.0010.20.06	96	4.0014.03.07	56	4.0036.40.50	79	4.0071.40.03	99	4.0083.00.16	63
4.0010.20.07	96	4.0016.00.00	56	4.0036.40.51	79	4.0071.40.06	99	4.0083.00.17	63
4.0010.40.01	96	4.0017.00.00	56	4.0061.14.01	100	4.0071.40.09	99	4.0083.00.19	63
4.0010.40.02	96	4.0018.00.00	56	4.0061.14.02	100	4.0071.40.11	99	4.0083.00.20	63
4.0010.40.03	96	4.0018.00.07	56	4.0061.14.03	100	4.0071.40.12	99	4.0083.00.35	63
4.0010.40.04	96	4.0025.20.11	97	4.0061.14.04	100	4.0071.40.13	99	4.0083.00.39	63
4.0010.40.05	96	4.0025.20.12	97	4.0061.14.05	100	4.0071.40.16	99	4.0083.00.50	63
4.0010.40.06	96	4.0025.20.13	97	4.0061.14.06	100	4.0071.40.19	99	4.0084.00.00	63
4.0010.40.07	96	4.0025.20.14	97	4.0061.14.07	100	4.0071.40.20	99	4.0086.00.11	75
4.0011.10.01	96	4.0025.20.15	97	4.0061.14.09	100	4.0071.40.35	99	4.0086.00.12	75
4.0011.10.02	96	4.0025.20.16	97	4.0061.14.20	100	4.0072.00.01	77	4.0086.00.13	75
4.0011.10.03	96	4.0025.20.17	97	4.0061.14.35	100	4.0072.00.02	77	4.0086.00.14	75
4.0011.10.04	96	4.0025.20.19	97	4.0061.14.50	100	4.0072.00.03	77	4.0086.00.15	75
4.0011.10.05	96	4.0025.40.11	97	4.0061.14.51	100	4.0072.00.06	77	4.0086.00.16	75
4.0011.10.06	96	4.0025.40.12	97	4.0061.24.01	100	4.0072.00.09	77	4.0086.00.17	75
4.0011.10.07	96	4.0025.40.13	97	4.0061.24.02	100	4.0072.00.11	77	4.0086.00.19	75
4.0011.15.01	74	4.0025.40.14	97	4.0061.24.03	100	4.0072.00.12	77	4.0086.00.20	75
4.0011.15.02	74	4.0025.40.15	97	4.0061.24.04	100	4.0072.00.13	77	4.0086.00.35	75
4.0011.15.03	74	4.0025.40.16	97	4.0061.24.05	100	4.0072.00.16	77	4.0086.00.39	75
4.0011.15.04	74	4.0025.40.17	97	4.0061.24.06	100	4.0072.00.19	77	4.0086.00.50	75
4.0011.15.05	74	4.0025.40.19	97	4.0061.24.07	100	4.0072.00.20	77	4.0086.00.51	75
4.0011.15.06	74	4.0026.20.01	97	4.0061.24.09	100	4.0072.00.35	77	4.0086.00.52	75
4.0011.15.07	74	4.0026.20.02	97	4.0061.24.20	100	4.0072.30.01	77	4.0086.00.75	75
4.0011.15.09	74	4.0026.20.03	97	4.0061.24.35	100	4.0072.30.02	77	4.0087.00.01	69
4.0011.15.11	74	4.0026.20.04	97	4.0061.24.50	100	4.0072.30.03	77	4.0087.00.02	69
4.0011.15.12	74	4.0026.20.05	97	4.0061.24.51	100	4.0072.30.06	77	4.0087.00.03	69
4.0011.15.13	74	4.0026.20.06	97	4.0061.44.01	100	4.0072.30.08	77	4.0087.00.04	69
4.0011.20.01	96	4.0026.20.07	97	4.0061.44.02	100	4.0072.30.09	77	4.0087.00.05	69
4.0011.20.02	96	4.0026.20.09	97	4.0061.44.03	100	4.0072.30.11	77	4.0087.00.06	69
4.0011.20.03	96	4.0026.20.11	97	4.0061.44.04	100	4.0072.30.12	77	4.0087.00.07	69
4.0011.20.04	96	4.0026.20.12	97	4.0061.44.05	100	4.0072.30.13	77	4.0087.00.20	69
4.0011.20.05	96	4.0026.20.13	97	4.0061.44.06	100	4.0072.30.16	77	4.0087.00.35	69
4.0011.20.06	96	4.0026.20.14	97	4.0061.44.07	100	4.0072.30.18	77	4.0087.02.01	69

## Index

4.0087.02.02 .....69	4.0093.40.39 .....67	4.0098.10.70 ..... 113	4.0098.40.42 ..... 113	4.0192.90.15 .....83
4.0087.02.03 .....69	4.0094.00.00 .....67	4.0098.10.71 ..... 113	4.0098.40.70 ..... 113	4.0192.90.39 .....83
4.0087.02.04 .....69	4.0095.00.00 .....87	4.0098.10.72 ..... 113	4.0098.40.71 ..... 113	4.0195.18.01 .....85
4.0087.02.05 .....69	4.0095.00.15 .....87	4.0098.10.80 ..... 113	4.0098.40.72 ..... 113	4.0195.18.02 .....85
4.0087.02.06 .....69	4.0095.00.16 .....87	4.0098.10.81 ..... 113	4.0098.40.80 ..... 113	4.0195.18.03 .....85
4.0087.02.07 .....69	4.0095.00.17 .....87	4.0098.11.00 ..... 113	4.0098.40.81 ..... 113	4.0195.18.10 .....85
4.0087.02.20 .....69	4.0095.00.70 .....87	4.0098.11.15 ..... 113	4.0098.41.00 ..... 113	4.0195.18.18 .....85
4.0087.02.35 .....69	4.0095.00.71 .....87	4.0098.11.70 ..... 113	4.0098.41.15 ..... 113	4.0195.18.20 .....85
4.0088.00.01 .....68	4.0095.00.80 .....87	4.0098.11.71 ..... 113	4.0098.41.70 ..... 113	4.0195.18.21 .....85
4.0088.00.02 .....68	4.0095.00.81 .....87	4.0098.11.80 ..... 113	4.0098.41.71 ..... 113	4.0195.18.22 .....85
4.0088.00.03 .....68	4.0097.00.00 .....89	4.0098.11.81 ..... 113	4.0098.41.80 ..... 113	4.0195.18.23 .....85
4.0088.00.04 .....68	4.0097.00.15 .....89	4.0098.12.00 ..... 113	4.0098.41.81 ..... 113	4.0195.18.35 .....85
4.0088.00.05 .....68	4.0097.00.16 .....89	4.0098.12.10 ..... 113	4.0098.42.00 ..... 113	4.0195.18.36 .....85
4.0088.00.06 .....68	4.0097.00.17 .....89	4.0098.12.15 ..... 113	4.0098.42.10 ..... 113	4.0195.18.37 .....85
4.0088.00.07 .....68	4.0097.00.70 .....89	4.0098.12.35 ..... 113	4.0098.42.15 ..... 113	4.0195.18.38 .....85
4.0088.00.20 .....68	4.0097.00.71 .....89	4.0098.12.70 ..... 113	4.0098.42.35 ..... 113	4.0195.90.01 .....83
4.0088.00.35 .....68	4.0097.00.80 .....89	4.0098.12.71 ..... 113	4.0098.42.70 ..... 113	4.0195.90.02 .....83
4.0088.02.01 .....68	4.0097.00.81 .....89	4.0098.13.12 ..... 113	4.0098.42.71 ..... 113	4.0195.90.03 .....83
4.0088.02.02 .....68	4.0097.12.70 .....129	4.0098.13.15 ..... 113	4.0098.43.12 ..... 113	4.0195.90.10 .....83
4.0088.02.03 .....68	4.0097.12.71 .....129	4.0098.13.35 ..... 113	4.0098.43.15 ..... 113	4.0195.90.18 .....83
4.0088.02.04 .....68	4.0097.13.35 .....129	4.0098.13.52 ..... 113	4.0098.43.35 ..... 113	4.0195.90.20 .....83
4.0088.02.05 .....68	4.0097.13.52 .....129	4.0098.13.70 ..... 113	4.0098.43.52 ..... 113	4.0195.90.21 .....83
4.0088.02.06 .....68	4.0097.13.70 .....129	4.0098.16.12 ..... 113	4.0098.43.70 ..... 113	4.0195.90.22 .....83
4.0088.02.07 .....68	4.0097.16.35 .....129	4.0098.16.15 ..... 113	4.0098.46.12 ..... 113	4.0195.90.23 .....83
4.0088.02.20 .....68	4.0097.16.52 .....129	4.0098.16.35 ..... 113	4.0098.46.15 ..... 113	4.0195.90.35 .....83
4.0088.02.35 .....68	4.0097.16.70 .....129	4.0098.16.52 ..... 113	4.0098.46.35 ..... 113	4.0195.90.36 .....83
4.0089.00.00 .....69	4.0098.00.00 .....113	4.0098.16.70 ..... 113	4.0098.46.52 ..... 113	4.0195.90.37 .....83
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4.0093.10.12 .....67	4.0098.00.42 .....113	4.0098.20.15 ..... 113	4.0171.01.00 .....61	4.0197.10.01 .....102
4.0093.10.13 .....67	4.0098.00.70 .....113	4.0098.20.42 ..... 113	4.0171.02.00 .....61	4.0197.10.02 .....102
4.0093.10.14 .....67	4.0098.00.71 .....113	4.0098.20.70 ..... 113	4.0171.03.00 .....61	4.0197.10.03 .....102
4.0093.10.15 .....67	4.0098.00.72 .....113	4.0098.20.71 ..... 113	4.0171.04.00 .....61	4.0197.10.09 .....102
4.0093.10.16 .....67	4.0098.00.80 .....113	4.0098.20.72 ..... 113	4.0171.20.01 .....61	4.0197.20.01 .....102
4.0093.10.17 .....67	4.0098.00.81 .....113	4.0098.20.80 ..... 113	4.0171.20.02 .....61	4.0197.20.02 .....102
4.0093.10.19 .....67	4.0098.01.00 .....113	4.0098.20.81 ..... 113	4.0171.20.03 .....61	4.0197.20.03 .....102
4.0093.10.20 .....67	4.0098.01.15 .....113	4.0098.21.00 ..... 113	4.0171.20.06 .....61	4.0197.20.09 .....102
4.0093.10.20 .....67	4.0098.01.70 .....113	4.0098.21.15 ..... 113	4.0171.20.08 .....61	4.0197.40.01 .....102
4.0093.10.39 .....67	4.0098.01.71 .....113	4.0098.21.70 ..... 113	4.0171.20.09 .....61	4.0197.40.02 .....102
4.0093.20.11 .....67	4.0098.01.80 .....113	4.0098.21.71 ..... 113	4.0171.20.11 .....61	4.0197.40.03 .....102
4.0093.20.12 .....67	4.0098.01.81 .....113	4.0098.21.80 ..... 113	4.0171.20.12 .....61	4.0197.40.09 .....102
4.0093.20.13 .....67	4.0098.02.00 .....113	4.0098.21.81 ..... 113	4.0171.20.13 .....61	4.0198.10.01 .....103
4.0093.20.14 .....67	4.0098.02.10 .....113	4.0098.22.00 ..... 113	4.0171.20.16 .....61	4.0198.10.02 .....103
4.0093.20.15 .....67	4.0098.02.15 .....113	4.0098.22.10 ..... 113	4.0171.20.18 .....61	4.0198.10.03 .....103
4.0093.20.16 .....67	4.0098.02.35 .....113	4.0098.22.15 ..... 113	4.0171.20.19 .....61	4.0198.10.09 .....103
4.0093.20.17 .....67	4.0098.02.70 .....113	4.0098.22.35 ..... 113	4.0171.20.20 .....61	4.0198.10.26 .....103
4.0093.20.19 .....67	4.0098.02.71 .....113	4.0098.22.70 ..... 113	4.0171.20.35 .....61	4.0198.10.50 .....103
4.0093.20.20 .....67	4.0098.03.12 .....113	4.0098.22.71 ..... 113	4.0171.20.50 .....61	4.0198.12.20 .....103
4.0093.20.20 .....67	4.0098.03.15 .....113	4.0098.23.12 ..... 113	4.0192.18.01 .....85	4.0198.12.35 .....103
4.0093.20.39 .....67	4.0098.03.35 .....113	4.0098.23.15 ..... 113	4.0192.18.02 .....85	4.0198.13.20 .....103
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




























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## Symbols

	Protected against dust, Water splashed from all directions		asymmetrical, vertical radiation of pool floodlights		Bulb included
	Total protection against dust, Jet-proof; water jets: pressure 0.3 bar at 3 m		symmetrical, vertical radiation of pool floodlights		Bulb excluded
	Total protection against dust, Waterproof (immersible below 1 m)		symmetrical, horizontal radiation of pool floodlights		Cable included
	Total protection against dust, Pressure-watertight (submersible)		asymmetrical radiation of floor mounted floodlights		Cable excluded
	The maximum installation depth in water is 1 metre.		symmetrical radiation of floor mounted floodlights		German Electrical Association (VDE) Test Certificate
	The maximum installation depth in water is 3 metre.		radiation of orientation floodlights, diffus		German Technical Supervisory Board (TÜV) safety tested
	The maximum installation depth in water is 10 metre.		radiation of swinging lights		EU conformity declaration
	The spotlight indicated may only be used under water.		Swivel flood reflectors of floor mounted floodlights		Class I
	Walk-over and drive-over for pressure loads of up to 650 kg.		Swivel medium reflectors of floor mounted floodlights		Class II
	Walk-over and drive-over for pressure loads of up to 1500 kg.		Swivel spot reflectors of floor mounted floodlights		Class III
	Walk-over and drive-over for pressure loads of up to 5000 kg.		Swivel reflectors lamp of floor mounted floodlights		<b>Cool Contact</b> certificate of conformity for standardize temperature reduction on the glass surface min. <75°C
	304L stainless steel, material no. 1.4301		360° pivotable and +/-15° adjustable		<b>GTR-Unit</b> internal unit for reduction of temperature on the glass surface
	316L stainless steel, material no. 1.4404, 1.4571				<b>NTC-Control</b> POW-LED-Platine temperatur control
	Aluminium				<b>IK10</b> Impact test: 20 Joule
	Specialmaterial Nr. 1.4539				

# Notes

## Extract from our delivery and payment terms and conditions

Our products are purely for sale to traders and wholesalers in trade and industry. All the prices quoted in this price list are listed without VAT.

Invoices are subject to the terms and conditions or payment at the time of delivery. For orders less than EUR 25.– there is an additional minimum surcharge of at least 10 %.

Prices are quoted ex-works without packing. Payment is to be effected within 30 days net after receipt of invoice. Special conditions for oversea business.

Subject to alterations. Errors and omissions excepted.

It should be born in mind that all orders are only for our manufactured products and supplies. We refute any liability for the installation or further application.

**With this catalogue all other documentations and lists lose the validity. (May 2012)**

We decline any responsibility for printing errors and other mistakes.

W400-V12/13-AUF9-D0412MET, Mai 2012

*Bild Rückseite links: Hotel Das König Ludwig Wellness & SPA Resort Allgäu, Schwangau*

# WIBRE

**WIBRE Elektrogeräte**  
**Edmund Breuninger GmbH & Co. KG**  
Liebigstraße 9  
74211 Leingarten/Germany

Phone: +49 (0) 7131 9053-0  
Fax: +49 (0) 7131 9053-19

E-Mail: [info@wibre.de](mailto:info@wibre.de)  
Internet: [www.wibre.de](http://www.wibre.de)

