



LIGHTING
TECHNOLOGY & CONTROL

EUREKA TOWER SERIES

IP67 Recessed LED Inground Lights









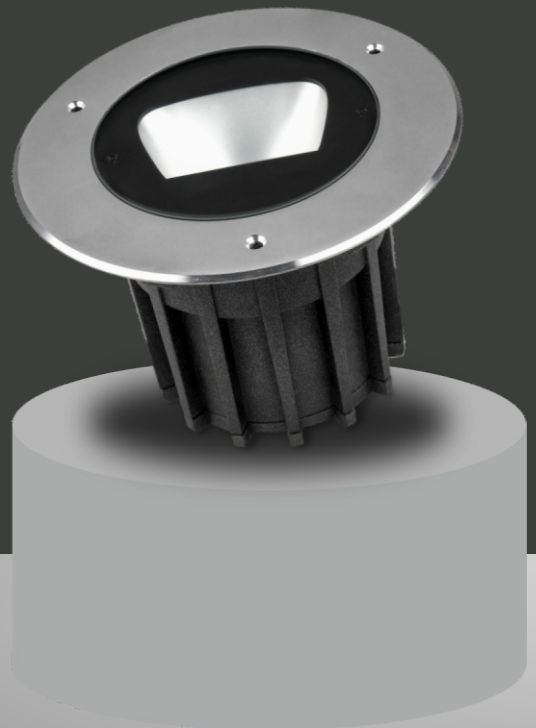
Eureka Tower Series Inground Luminaires



IN-GROUND LUMINAIRE TYPES:

- Adjustable Beam Direction Inground Luminaires (also named as "Directional Inground Luminaires"):
 - (1) High power LEDs+Optical Lens
 - (2) COB LED+Optical Lens
- Depth Illuminant Inground Luminaires/Uplights:
 - (1) High Power LEDs+Optical lens
 - (2) COB LED+ Optical Lens
 - (3) COB LED+Reflector
- Asymmetrical LED Inground Wall Washers/Luminaires
 - (1) COB LED+Asymmetrical Reflector, or
 - (2) High Power LED+Optical Lens

Asymmetrical LED Inground Luminaire
(COB LED+Asymmetrical Reflector/Lens)



Depth Illuminant LED Inground Uplight
(High Power LEDs+Optical Lens)

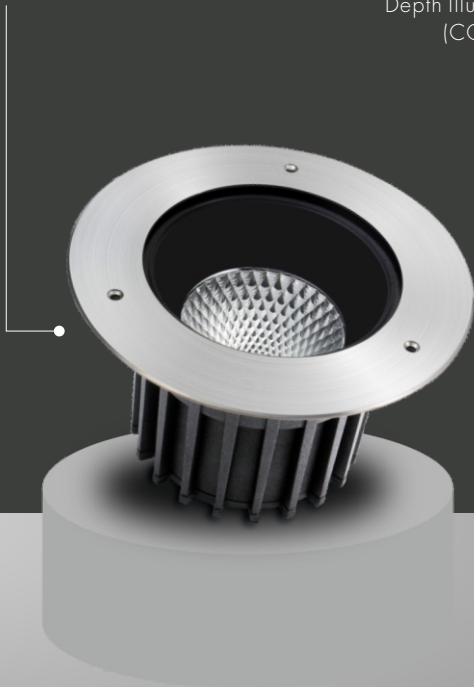


High Power LED Directional In-ground Light
(High Power LEDs+Optical Lens)

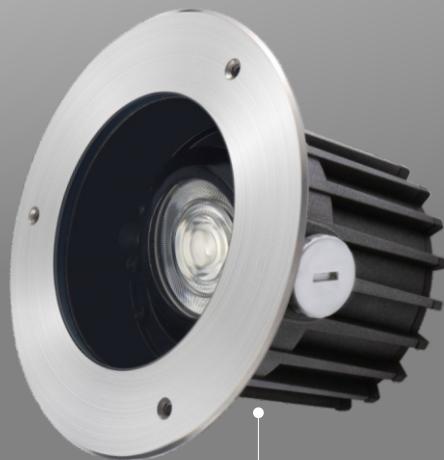
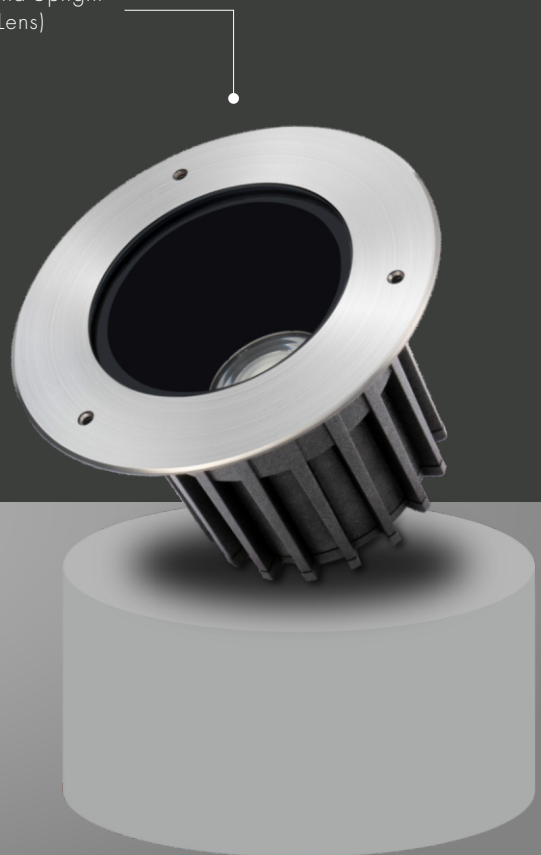
EurekaTower Series

In-ground Luminaires

Depth Illuminant LED Inground Uplight
(COB LED+Reflector)



Depth Illuminant LED Inground Uplight
(COB LED+Optical Lens)



COB LED Directional Inground Light
(COB LED+Optical Lens)

Inground Luminaires – Light Effect and Planning Aid:

Luminaires Type&Technology

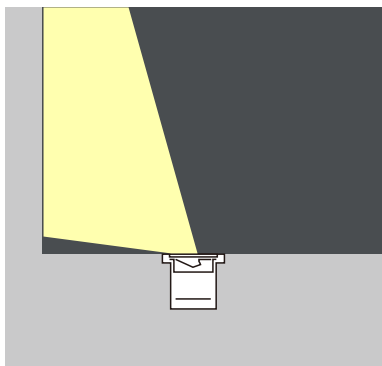
Light Tool

Light Distribution

Lens or Reflector Wallwasher

Wall Wash

Asymmetrical light distribution for highly uniform wallwashing



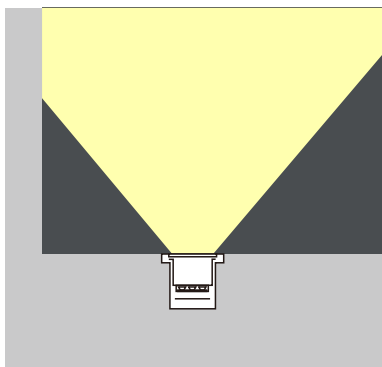
Wallwash

Uniform wallwashing

Uplights

Available in Narrow Spot, Spot, Flood, Wide Flood, and Oval Flood beam options —

Providing rotationally symmetrical light distributions from narrow to very wide beams, ideal for precise accent lighting.



Narrow Spot

Round beam angle narrower than 10°



Spot

Round beam angle between 10° ~ 20°



Flood

Round beam angle between 25° ~ 35°



Wide Flood

Round beam angle larger than 45°



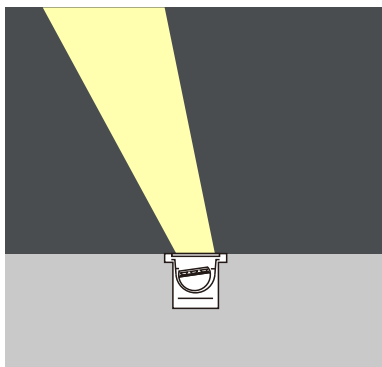
Oval Flood

Oval beam angle approx. 10° x 60° or others

Directional Luminaires

Available in Narrow Spot, Spot, Flood, Wide Flood, and Oval Flood beam options —

Offering very narrow to wide beams with rotationally or axially symmetrical light distributions, ideal for accent lighting.



Narrow Spot

Round beam angle narrower than 10°



Spot

Round beam angle between 10° ~ 20°



Flood

Round beam angle between 25° ~ 35°



Wide Flood

Round beam angle larger than 45°



Oval Flood

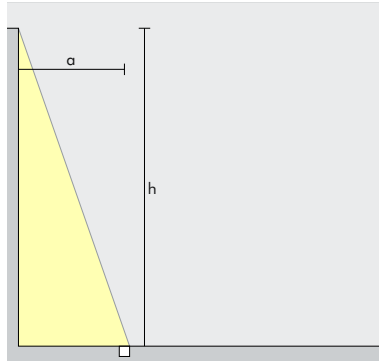
Oval beam angle approx. 10° x 60° or others

Inground Luminaires – Luminaire Arrangement:

Lens Wallwasher

Wall Wash

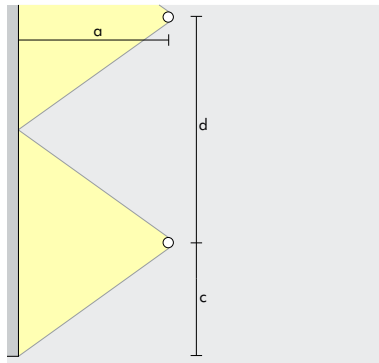
Asymmetrical light distribution for highly uniform wallwashing



Wallwashing

Uniform vertical illuminance in the outdoor area defines spatial borders. Here, the distance (a) of lens wallwashers from the wall should be around one third of the room height (h).

Arrangement: $a = 1/3 \times h$



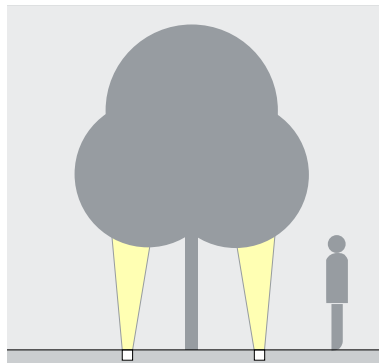
For good longitudinal uniformity, the spacing (d) of round lens wallwashers may be up to 1.3 times the offset from the wall (a).

Arrangement: $d \leq 1.3 \times a$

Uplights

Spot, Flood, Wide Flood, Oval Flood

Very wide beam, rotationally symmetrical light distribution for accent lighting



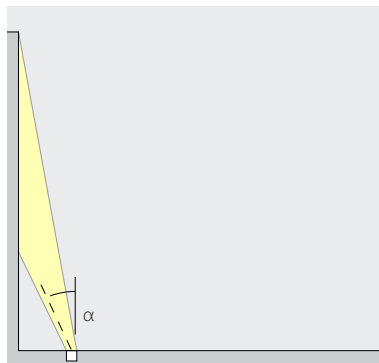
Accentuation

Uplights used for the accentuation of objects such as tree tops or cantilever roofs need to be accurately positioned and aligned to ensure that the light arrives precisely and only on the target surface to avoid light pollution.

Directional Luminaires

Available in Narrow Spot, Spot, Flood, Wide Flood, and Oval Flood beam options —

Offering very narrow to wide beams with rotationally or axially symmetrical light distributions, ideal for accent lighting



Accentuation

Experience has shown the ideal angle of tilt (α) for accent lighting with directional luminaires to be 25° . This ensures good modeling without excessive grazing light.

Arrangement: $\alpha = 25^\circ$





Eureka Tower Series

Directional Inground Luminaire

LUMINAIRE:

- Beam direction angle adjustable by knob or tool.
- Titanium chrome white SUS 316L stainless steel front cover
- 12# Die-cast aluminum housing with Tiger or Akzo powder coated
- ABS Mounting sleeve (recessed box) included
- Shock resistant tempered glass cover for protection
- Can be walked over and driven over at maximum speed 20 km/h
- Electrically neutral thermal path to ensure performance
- Protection Rating IP67 for outdoor applications
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

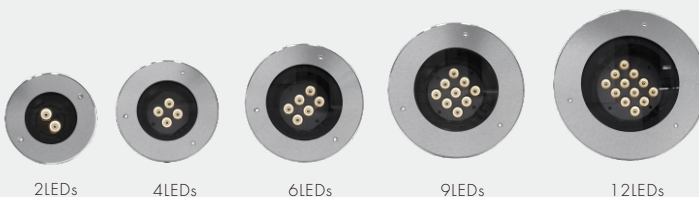
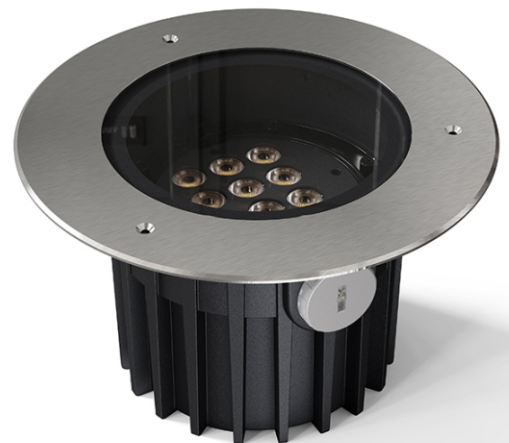
- Polycarbonate UV-resistant lenses
- Symmetrical or asymmetrical light distribution
- Ultra spot, spot, narrow, medium, flood, wide flood and elliptic optics
- Built-in anti-glare grille for improved visual comfort
- Optional Honeycomb louver or filter for anti-glare light
- Directional optical system: $-25^{\circ} \sim +25^{\circ}$ adjustable on horizontal axes.

LIGHT COLOUR MANAGEMENT:

- High uniformity and consistency for facade lighting or up lighting
- 3-in-1 LEDs or 4-in-1 LEDs available for colour mixing versions

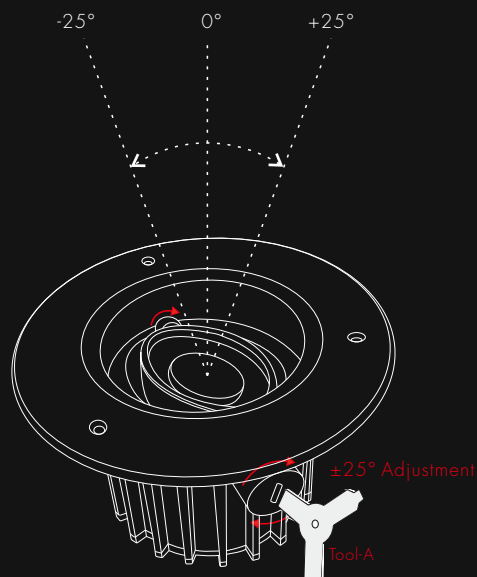
INSTALLATION:

- For outdoor installation with ground recessed box (mounting sleeve)
- Operating Temperature: $20^{\circ}\text{C} \sim +40^{\circ}\text{C}$



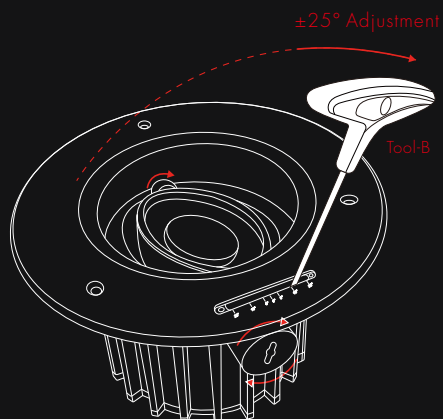
Adjustable Beam Direction LED Inground Light

The Directional Inground Luminaires are designed with adjustable head that allow you to change the direction the light beam on horizontal axis by the knob on the lamp body. This adjustability provides flexibility in illuminating specific areas or objects



A simplicity of wider-angle adjustment in according to the environment required to adjust the angle of light direction.

(Optional) Adjust Beam Direction from Front Cover



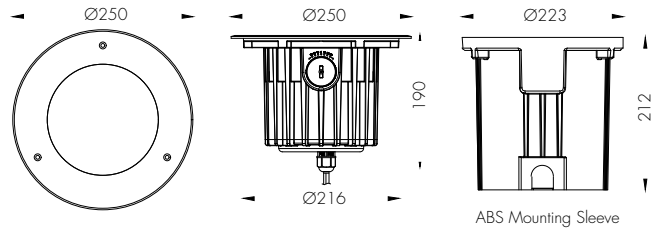
Directional Inground Luminaires



Model No.: 12HF-X | 36W/48W | Directional In-ground Luminaire



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12HF-X-118	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	18pcs×2W CREE or OSRAM LED	10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	36	Cool White=2750 Warm White=2338	10
12HF-X-112	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	12pcs×3W CREE or OSRAM LED	Ultra Narrow 3°, 8°	24VDC 120/240V	36	Cool White=2373 Warm White=2017	10
12HF-X-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×40W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	36	Cool White=3320 Warm white=2807	10
12HF-X-312	PWM, DMX512	RGB	12pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	36	850	10
12HF-X-412	PWM, DMX512	RGBW	12pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC 120/240V	48	1369	10

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1 / ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass, T=8mm.
Glass Pressure Capacity:	Full Area=5160KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



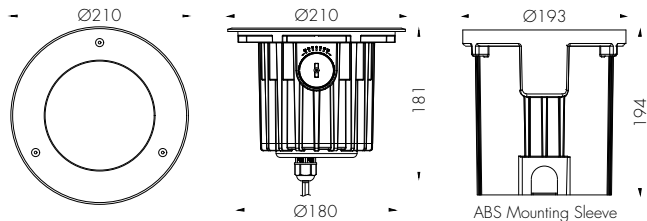
COB LED+Optical Lens Version
Item No.: 12HF-X-101

Optional Accessories

Honeycomb Louve 12HF-X-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Frosted Filter 12HF-X-A2 Built-in anti-glare accessory for soft light output and improved visual comfort	Square Front Cover 12HF-X-A3 Made of SUS 316 stainless steel
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Model No.: 12HE-X | 24W/27W/36W | Directional In-ground Luminaire

Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12HE-X-112	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	12pcs×2W CREE or OSRAM LED	10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	24	Cool White=1788 Warm White=1479	10
12HE-X-109	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	9pcs×3W CREE or OSRAM LED	Ultra Narrow 3°, 8°	24VDC 120/240V	24	Cool White=1560 Warm White=1326	10
12HE-X-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×25W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	24	Cool White=2260 Warm white=1862	10
12HE-X-309	PWM, DMX512	RGB	9pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	27	680	10
12HE-X-409	PWM, DMX512	RGBW	9pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC 120/240V	36	1056	10

Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2961KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)

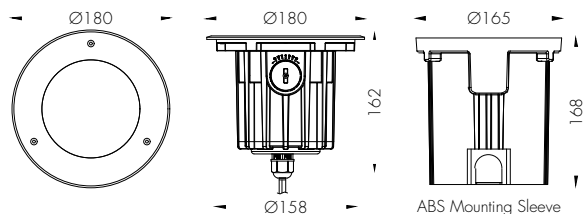
COB LED+Optical Lens Version
Item No.: 12HE-X-101

Optional Accessories

Honeycomb Louve 12HF-X-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Frosted Filter 12HF-X-A2 Built-in anti-glare accessory for soft light output and improved visual comfort	Square Front Cover 12HF-X-A3 Made of SUS 316 stainless steel
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Model No.: 12HD-X | 18W/20/24W | Directional In-ground Light

Units:mm

**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HD-X-109	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	9pcs×2W CREE or OSRAM LED	10°, 15°, 25°, 40°, 60° 10x45°, 20x65°	24VDC 120/240V	18	Cool White=1290 Warm White=1101	10
12HD-X-106	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	6pcs×3W CREE or OSRAM LED	Ultra Narrow 3°, 8°	24VDC 120/240V	18	Cool White=1175 Warm White=995	10
12HD-X-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×20W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	20	Cool White=1700 Warm white=1445	10
12HD-X-306	PWM, DMX512	RGB	6pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	18	450	10
12HD-X-406	PWM, DMX512	RGBW	6pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	24	840	10

Material Specifications

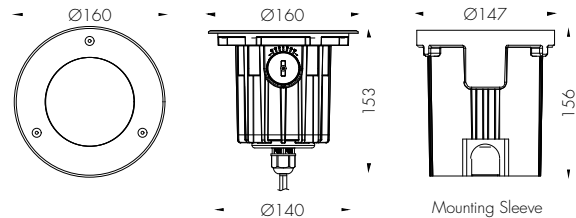
Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2621KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	Ip68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3x0.75mm², L=0.5m (110~240VAC) H05RN-F 4x0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2x1.0+3x0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS

COB LED+Optical Lens Version
Item No.: 12HD-X-101**Optional Accessories**

	Honeycomb Louve 12HD-X-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort		Frosted Filter 12HD-X-A2 Built-in anti-glare accessory for soft light output and improved visual comfort		Square Front Cover 12HD-X-A3 Made of SUS 316 stainless steel
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Model No.: 12HC-X | 12W/16W | Directional In-ground Luminaire

Units:mm



Technical Specifications

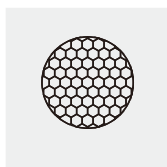
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12HC-X-106	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	6pcs×2W CREE or OSRAM LED	10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	12	Cool White=928 Warm White=789	10
12HC-X-104	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	4pcs×3W CREE or OSRAM LED	Ultra Narrow 3°, 8°	24VDC 120/240V	12	Cool White=801 Warm White=663	10
12HC-X-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×15W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	12	Cool White=1100 Warm white=969	10
12HC-X-304	PWM, DMX512	RGB	4pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	12	330	10
12HC-X-404	PWM, DMX512	RGBW	4pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	16	525	10

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2580KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V, or AC 110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)

COB LED+Optical Lens Version
Item No.: 12HC-X-101

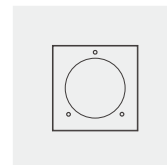
Optional Accessories



Honeycomb Louvre 12HD-X-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HD-X-A2
Built-in anti-glare accessory for soft light output and improved visual comfort

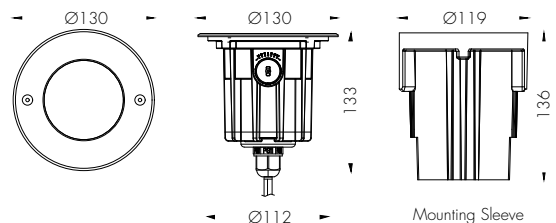


Square Front Cover 12HD-X-A3
Made of SUS 316 stainless steel.

Model No.: 12HB-X | 6W/8W | Directional In-ground Luminaire



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HB-X-103	ON/OFF, PWM, DMX512 (24VDC)	Single	3pcs×2W CREE or OSRAM LED	10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	6	Cool White=450 Warm White=428	09
12HB-X-102	ON/OFF, PWM, DMX512 (24VDC)	Single	2pcs×3W CREE or OSRAM LED	Ultra Narrow 3°, 8°	24VDC 120/240V	6	Cool White=395 Warm White=335	09
12HB-X-101	ON/OFF, PWM, DMX512 (24VDC)	2700~6500K	1pcs×10W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	6	Cool White=510 Warm white=433	09
12HB-X-302	PWM, DMX512	RGB	2pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	6	150	09
12HB-X-402	PWM, DMX512	RGBW	2pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	8	269	09

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1 / ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2526KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding shaped silicone seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



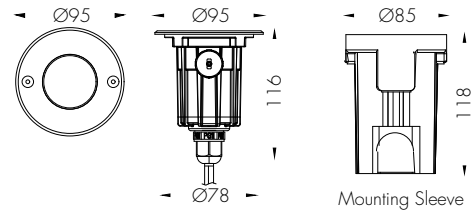
COB LED+Optical Lens Version
Item No.: 12HB-X-101

Optional Accessories

Honeycomb Louve 12HB-X-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Frosted Filter 12HB-X-A2 Built-in anti-glare accessory for soft light output and improved visual comfort	Square Front Cover 12HB-X-A3 Made of SUS 316 stainless steel
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Model No.: 12HA-X | 3W/4W | Directional In-ground Luminaire

Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HA-X101	ON/OFF, PWM, DMX512 (24VDC)	Single	1pcs×3W CREE or OSRAM LED	5°, 8°, 15°, 25°, 40°, 60°, 10×45°, 20×65°	24VDC 120/240V	2.6	Cool White=188 Warm White=159	09
12HA-X301	ON/OFF, PWM	RGB	1pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	3	66	09
12HA-X401	ON/OFF, PWM	RGBW	1pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	4	105	09

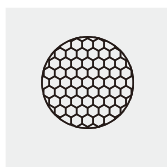
Material Specifications

Housing:	12# Die-Casting Black Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=1295KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



Square Front Cover is available upon request

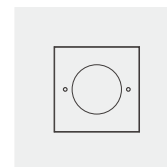
Optional Accessories



Honeycomb Louve 12HA-XA1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



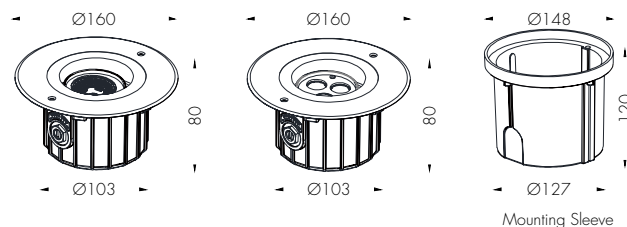
Filter 12HA-XA2
Built-in anti-glare accessory for soft light output and improved visual comfort



Square Front Cover 12HA-XA3
Made of SUS 316 stainless steel

Model No.: 12BG-X | 6W/9W/12W | Directional In-ground Luminaire

Units:mm

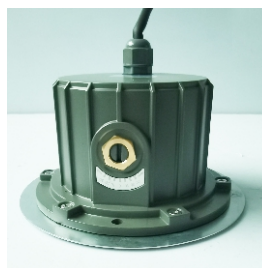


Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12BG-X-103	ON/OFF, PWM, DMX512 (24VDC)	Single	3pcs×2W CREE or OSRAM LED	8°, 15°, 25°, 40°, 60°	24VDC 120/240V	6	Cool White=445 Warm White=416	09
12BG-X-101	ON/OFF, PWM, DMX512 (24VDC)	2700~6500K	1pcs×6W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	6	Cool White=540 Warm white=459	09
12BG-X-302 PWM, DMX512 RGB			3pcs×2.5W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	9	180	09
12BG-X-402 PWM, DMX512 RGBW			3pcs×3.5W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	12	300	09

Material Specifications

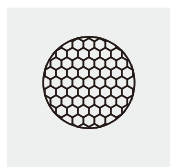
Housing:	12# Die-Casting Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2016KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding shaped silicone seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



Side View



Optional Accessories



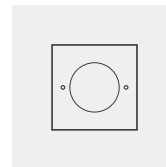
Honeycomb Louvre 12BG-X-A1

For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12BG-X-A2

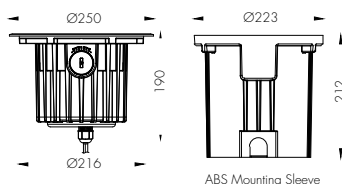
Built-in anti-glare accessory for soft light output and improved visual comfort



Square Front Cover 12BG-X-A3

Made of SUS 316 stainless steel

Directional In-ground Luminaires - Using a Tool to Adjust Beam Direction Angle from the front Cover (for Options)



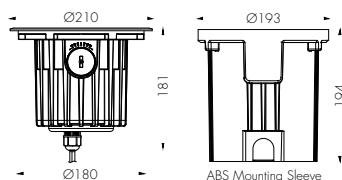
Front Cover with linear hole

12HF-XA4

Front Cover with linear hole for adjusting beam direction angle through the front cover.

Note:

Cannot order separately, it is completed with lamp body and mounting sleeve. Please view technical parameters in parameters of in-ground luminaire SL2011.



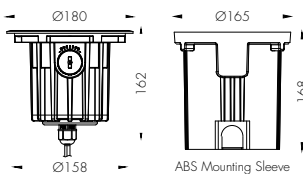
Front Cover with linear hole

12HE-XA4

Front Cover with linear hole for adjusting beam direction angle through the front cover.

Note:

Cannot order separately, it is completed with lamp body and mounting sleeve. Please view technical parameters in parameters of in-ground luminaire SL2021.



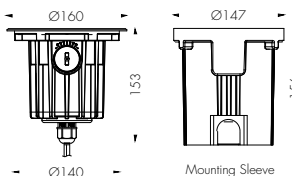
Front Cover with linear hole

12HD-XA4

Front Cover with linear hole for adjusting beam direction angle through the front cover.

Note:

Cannot order separately, it is completed with lamp body and mounting sleeve. Please view technical parameters in parameters of in-ground luminaire SL2031.



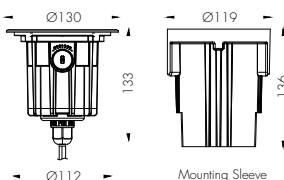
Front Cover with linear hole

12HC-XA4

Front Cover with linear hole for adjusting beam direction angle through the front cover.

Note:

Cannot order separately, it is completed with lamp body and mounting sleeve. Please view technical parameters in parameters of in-ground luminaire SL2041.



Front Cover with linear hole

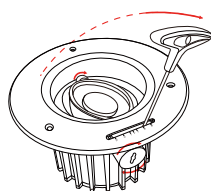
12HB-XA4

Front Cover with linear hole for adjusting beam direction angle through the front cover.

Note:

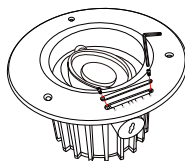
Cannot order separately, it is completed with lamp body and mounting sleeve. Please view technical parameters in parameters of in-ground luminaire SL2051.

Beam Direction Angle Adjustment Diagram:



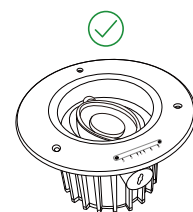
1

Use a tool to adjust beam direction angle you want from front cover of in-ground luminaire.



2

Fix the stainless steel mini linear bar by spanner to avoid the soil or sand coming into the mounting sleeve through the hole of front cover of in-ground luminaire.



3

Complete





Eureka Tower Series

Depth Illuminant Inground Uplight

LUMINAIRE:

- Depth illuminant up light for accent lighting
- Titanium chrome white SUS 316L stainless steel front cover
- 12# Die-cast aluminum housing with Tiger or Akzo powder coated
- ABS Mounting sleeve (recessed box) included
- Shock resistant tempered glass cover for protection
- Can be walked over and driven over at maximum speed 20 km/h
- Electrically neutral thermal path to ensure performance
- Protection Rating IP67 for outdoor applications
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

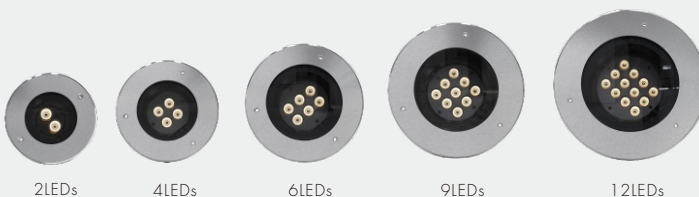
- Polycarbonate UV-resistant lenses
- Symmetrical or asymmetrical light distribution
- Ultra spot, spot, narrow, medium, flood, wide flood and elliptic optics
- Built-in anti-glare grille for improved visual comfort
- Optional Honeycomb louver or filter for anti-glare light

LIGHT COLOUR MANAGEMENT:

- High uniformity and consistency for facade lighting or up lighting
- 3-in-1 LEDs or 4-in-1 LEDs available for colour mixing versions

INSTALLATION:

- For outdoor installation with ground recessed box (mounting sleeve)
- Anti-slip glass as optional accessory for improved safety(non-standard version, please inquire us separately)



2LEDs

4LEDs

6LEDs

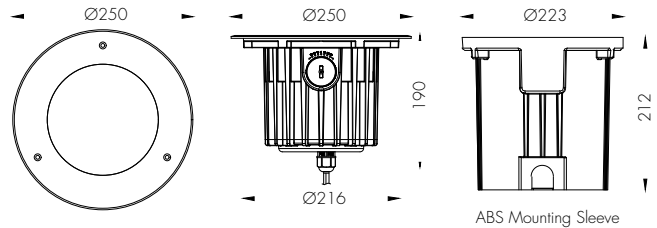
9LEDs

12LEDs

Model No.: 12HF-D | 36W/48W | Depth Illuminant In-ground Up Light



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HF-D-118	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	18pcs×2W CREE or OSRAM LED	3°, 8°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	36	Cool White=2350 Warm White=1997	10
12HF-D-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×40W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	36	Cool White=2952 Warm white=2509	10
12HF-D-312	PWM, DMX512	RGB	12pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	36	789	10
12HF-D-412	PWM, DMX512	RGBW	12pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC 120/240V	48	1200	10

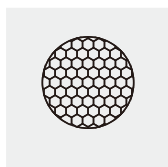
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=5160KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



COB LED+Optical Lens Version
Item No.: 12HF-D-101

Optional Accessories



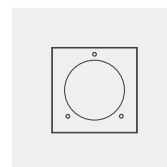
Honeycomb Louve 12HF-D-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HF-D-A2

Built-in anti-glare accessory for soft light output and improved visual comfort

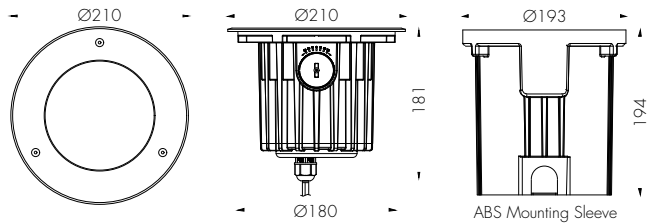


Square Front Cover 12HF-D-A3

Made of SUS 316 stainless steel

Model No.: 12HE-D | 24W/27W/36W | Depth Illuminant In-ground Up Light

Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HE-D-112	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	12pcs×2W CREE or OSRAM LED	3°, 8°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	24	Cool White=11567 Warm White=1332	10
12HE-D-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×25W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	24	Cool White=1968 Warm white=1672	10
12HE-D-309	PWM, DMX512	RGB	9pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	27	595	10
12HE-D-409	PWM, DMX512	RGBW	9pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC 120/240V	36	880	10

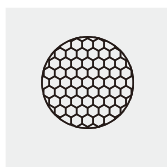
Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2961KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



COB LED+Optical Lens Version
Item No.: 12HFD-101

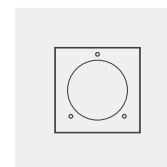
Optional Accessories



Honeycomb Louvre 12HE-D-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HE-D-A2
Built-in anti-glare accessory for soft light output and improved visual comfort

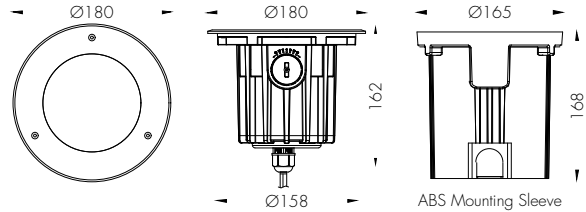


Square Front Cover 12HE-D-A3
Made of SUS 316 stainless steel

Model No.: 12HD-D | 18W/24W | Depth Illuminant In-ground Up Light



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HD-D-109	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	9pcs×2W CREE or OSRAM LED	3°, 8°, 10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	18	Cool White=1075 Warm White=985	10
12HD-D-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×20W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	18 (20)	Cool White=1540 Warm white=1395	10
12HD-D-306	PWM, DMX512	RGB	6pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	18	396	10
12HD-D-406	PWM, DMX512	RGBW	6pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC (120/240V)	24	645	10

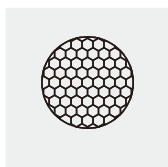
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2621KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	Ip68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS



COB LED+Optical Lens Version
Item No.: 12HD-D-101

Optional Accessories



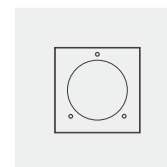
Honeycomb Louve 12HD-D-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HD-D-A2

Built-in anti-glare accessory for soft light output and improved visual comfort

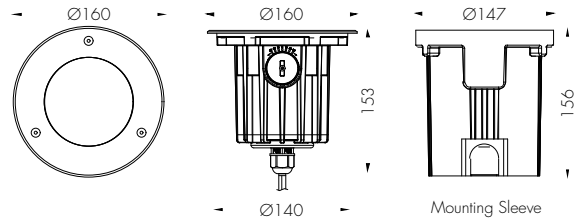


Square Front Cover 12HD-D-A3

Made of SUS 316 stainless steel

Model No.: 12HC-D | 12W/16W | Depth Illuminant In-ground Up Light

Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HC-D-106	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	Single	6pcs×2W CREE or OSRAM LED	3°, 8°, 10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	12	Cool White=928 Warm White=789	10
12HC-D-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×15W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	12 (15)	Cool White=1100 Warm white=969	10
12HC-D-304	PWM, DMX512	RGB	4pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	12	330	10
12HC-D-404	PWM, DMX512	RGBW	4pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	16	525	10

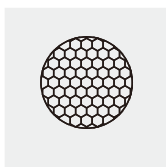
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2580KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



COB LED+Optical Lens Version
Item No.: 12HC-D-101

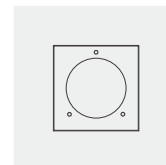
Optional Accessories



Honeycomb Louve 12HC-D-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



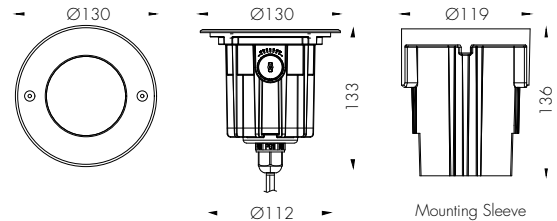
Frosted Filter 12HC-D-A2
Built-in anti-glare accessory for soft light output and improved visual comfort



Square Front Cover 12HC-D-A3
Made of SUS 316 stainless steel

Model No.: 12HB-D | 6W/8W | Depth Illuminant In-ground Up Light

Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HB-D-103	ON/OFF, PWM, DMX512 (24VDC)	Single	3pcs×2W CREE or OSRAM LED	3°, 8°, 10°, 15°, 25°, 40°, 60° 10×45°, 20×65°	24VDC 120/240V	6	Cool White=450 Warm White=428	09
12HB-D-101	ON/OFF, PWM, DMX512 (24VDC)	2700~6500K	1pcs×10W CREE COB LED	15°, 25°, 40°, 60°	24VDC 120/240V	6	Cool White=1080 Warm white=2907	09
12HB-D-302	PWM, DMX512	RGB	2pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	6	850	09
12HB-D-402	PWM, DMX512	RGBW	2pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	8	1269	09

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2526KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding shaped silicone seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)



Square Front Cover is available upon request



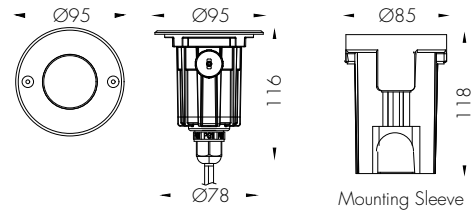
COB LED+Optical Lens Version
Item No.: 12HB-D-101

Optional Accessories

Honeycomb Louvre 12HB-D-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Frosted Filter 12HB-D-A2 Built-in anti-glare accessory for soft light output and improved visual comfort	Square Front Cover 12HB-D-A3 Made of SUS 316 stainless steel
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Model No.: 12HA-D | 3W/4W | Depth Illuminant In-ground Up Light

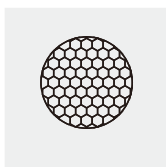
Units:mm

**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HA-D-101	ON/OFF, PWM	Single	1pcs×3W CREE or OSRAM LED	5°, 8°, 15°, 25°, 40°, 60°, 10×45°, 20×65°	24VDC 120/240V	2.6	Cool White=188 Warm White=159	09
12HA-D-301	ON/OFF, PWM	RGB	1pcs×3W RGB 3-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	3	66	09
12HA-D-401	ON/OFF, PWM	RGBW	1pcs×4W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	12/24VDC	4	105	09

Material Specifications

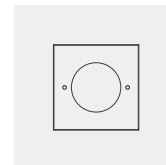
Housing:	12# Die-Casting Black Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=1295KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type:SMD LED, COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC) H05RN-F 4×0.75mm², L=0.5m (24VDC, RGB) H05RN-F 2×1.0+3×0.5mm², L=0.5m (24VDC, RGBW)
Mounting Sleeve (included):	ABS (For recessed Mount)

**Optional Accessories**

Honeycomb Louvre 12HA-D-A1
For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HA-D-A2
Built-in anti-glare accessory for soft light output and improved visual comfort



Square Front Cover 12HA-D-A3
Made of SUS 316 stainless steel







Eureka Tower Series

Inground Uplight with Reflector

LUMINAIRE:

- Depth illuminant up light for accent lighting or up lighting
- Titanium chrome white SUS 316L stainless steel front cover
- 12# Die-cast aluminum housing with Tiger or Akzo powder coated
- ABS Mounting sleeve (recessed box) included
- Shock resistant tempered glass cover for protection
- Can be walked over and driven over at maximum speed 20 km/h
- Electrically neutral thermal path to ensure performance
- Protection Rating IP67 for outdoor applications
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

- Optical Reflector
- Symmetrical light distribution
- Spot, flood, wide flood beam
- Depth LED positioned for visual comfort
- Optional Honeycomb louver or filter for anti-glare light

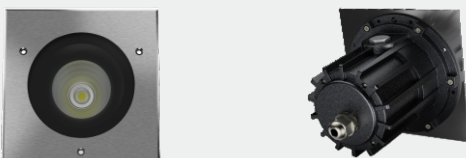
LIGHT COLOUR MANAGEMENT:

- High uniformity and consistency for facade lighting or up lighting
- Color temperature range 2700~6500K for options.

INSTALLATION:

- For outdoor installation with ground recessed box
- Operating Temperature: 20°C~+40°C

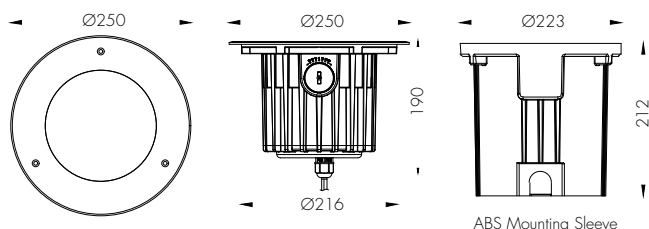
Square Front Cover for option



Model No.: 12HF-R | 36W | COB LED In-ground Up Light with Reflector



Units:mm



Technical Specifications

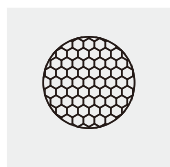
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HF-R-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×40W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	36	Cool White=2880 Warm white=2448	10

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=5160KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve (included):	ABS
Installation Way:	Recessed Mount



Optional Accessories



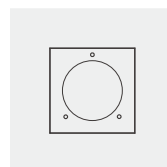
Honeycomb Louvre 12HF-R-A1

For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HF-R-A2

Built-in anti-glare accessory for soft light output and improved visual comfort

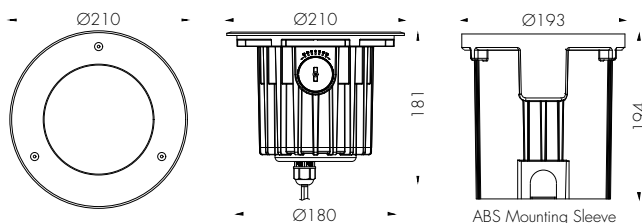


Square Front Cover 12HF-R-A3

Made of SUS 316 stainless steel

Model No.: 12HE-R | 25W | COB LED In-ground Up Light with Reflector

Units:mm

**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12HE-R-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×25W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	25	Cool White=2030 Warm white=1725	10

Material Specifications

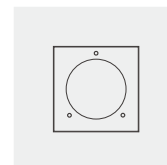
Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2961KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve (included):	ABS (For recessed Mount)
Installation Way:	Recessed Mount

**Optional Accessories**

Honeycomb Louve 12HE-R-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Filter 12HE-R-A2
Built-in anti-glare accessory for soft light output and improved visual comfort

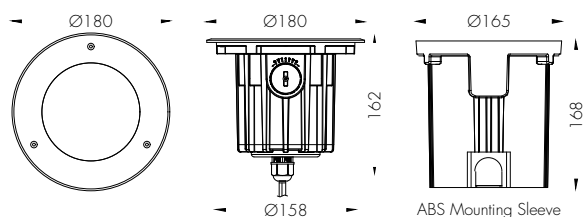


Square Front Cover 12HE-R-A3
Made of SUS 316 stainless steel

Model No.: 12HD-R | 20W | COB LED In-ground Up Light with Reflector



Units:mm



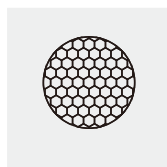
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HDR-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×20W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	20	Cool White=1650 Warm white=1445	10

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2621KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS
Installation Way:	Recessed Mount

Optional Accessories



Honeycomb Louve SL2033A3

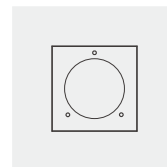
For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Filter

SL2033A2

Built-in anti-glare accessory for soft light output and improved visual comfort

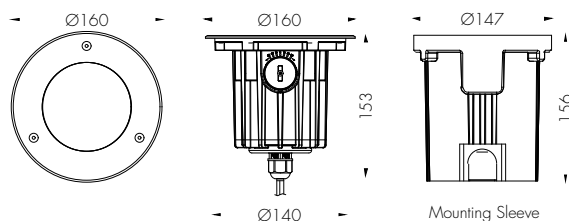


Square Front Cover SL2033A3

Made of SUS 316 stainless steel
Please inquire us separately.

Model No.: 12HC-R | 13W | COB LED In-ground Up Light with Reflector

Units:mm



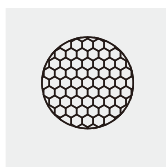
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HC-R-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×1.5W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	13	Cool White= 1105 Warm white=936	10

Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1 / ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass, T=8mm.
Glass Pressure Capacity:	Full Area=2580KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Installation Way:	Recessed Mount

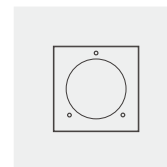
Optional Accessories



Honeycomb Louvre **12HC-R-A1**
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Filter **12HC-R-A2**
Built-in anti-glare accessory for soft light output and improved visual comfort

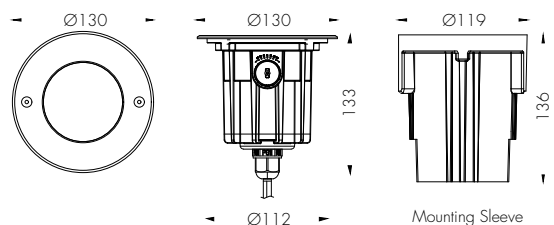


Square Front Cover **12HC-R-A3**
Made of SUS 316 stainless steel

Model No.: 12HB-R | 6W | COB LED In-ground Up Light with Reflector



Units:mm



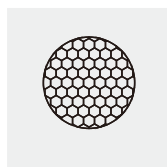
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HB-R-101	ON/OFF, PWM, DMX512 (24VDC)	2700~6500K	1pcs×8W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	6	Cool White=420 Warm white=350	09

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2526KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS
Installation Way:	Recessed Mount

Optional Accessories



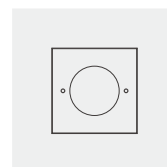
Honeycomb Louve 12HB-R-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HB-R-A2

Built-in anti-glare accessory for soft light output and improved visual comfort

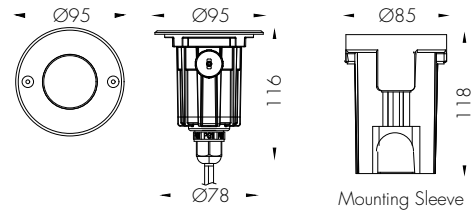


Square Front Cover 12HB-R-A3

Made of SUS 316 stainless steel

Model No.: 12HA-R | 3W | COB LED In-ground Up Light with Reflector

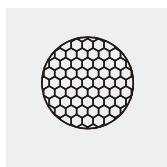
Units:mm

**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HA-R-101	ON/OFF, PWM	2700~6500K	1pcs×4W CREE COB LED	18°, 25°, 40°, 60°	24VDC 120/240V	3	Cool White= 225 Warm white=190	09

Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1 /ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area= 1295KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Installation Way:	Recessed Mount

Optional Accessories

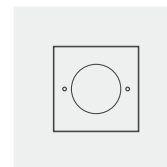
Honeycomb Louve 12HA-R-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HA-R-A2

Built-in anti-glare accessory for soft light output and improved visual comfort



Square Front Cover 12HA-R-A3

Made of SUS 316 stainless steel







Eureka Tower Series

Asymmetrical Reflector In-ground Light

LUMINAIRE:

- Asymmetrical reflector in-ground luminaire for wall washing
- Titanium chrome white SUS 316L stainless steel front cover
- 12# Die-cast aluminum housing with Tiger or Akzo powder coated
- ABS Mounting sleeve (recessed box) included
- Shock resistant tempered glass cover for protection
- Can be walked over and driven over at maximum speed 20 km/h
- Electrically neutral thermal path to ensure performance
- Protection Rating IP67 for outdoor applications
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

- Asymmetrical reflector or optical lens
- Asymmetrical light distribution for highly uniform wallwashing
- Wall wash beam uniform vertical illuminance in the outdoor area
- Depth LED positioned for visual comfort
- Optional Honeycomb louver or filter for anti-glare light or soft light

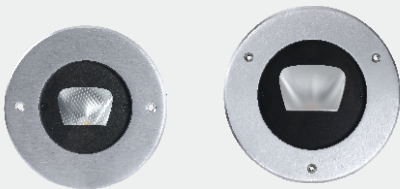
LIGHT COLOUR MANAGEMENT:

- High uniformity and consistency for facade lighting
- Color temperature range 2700~6500K for options.

INSTALLATION:

- For outdoor installation with ground recessed box
- Operating Temperature: 20°C~+40°C

ROUND FRONT COVER:



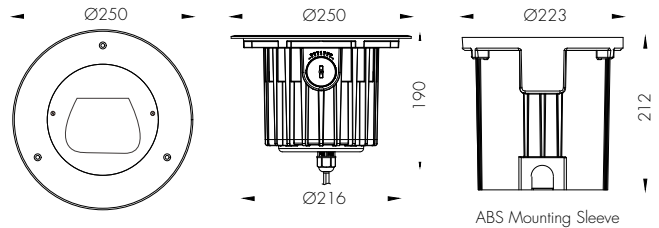
SQUARE FRONT COVER FOR OPTION



Model No.: 12HF-A | 36W | Asymmetrical Reflector COB LED Inground Light



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HF-A-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×40W CREE COB LED	Asymmetrical 27°	24VDC 120/240V	36	Cool White=2595 Warm white=2203	10

Material Specifications

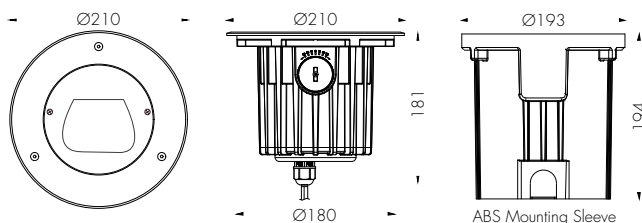
Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=5160KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS
Installation Way:	Recessed Mount

Optional Accessories

 Honeycomb Louve 12HF-A-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	 Frosted Filter 12HF-A-A2 Built-in anti-glare accessory for soft light output and improved visual comfort	 Square Front Cover 12HF-A-A3 Made of SUS 316 stainless steel
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Model No.: 12HE-A | 25W | Asymmetrical Reflector COB LED Inground Light

Units:mm



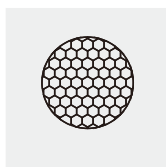
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HE-A-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×25W CREE COB LED	Asymmetrical 27°	24VDC 120/240V	25	Cool White=2030 Warm white=1725	10

Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2961KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Installation Way:	Recessed Mount

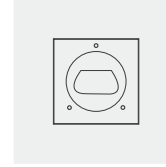
Optional Accessories



Honeycomb Louve 12HE-A-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HE-A-A2
Built-in anti-glare accessory for soft light output and improved visual comfort

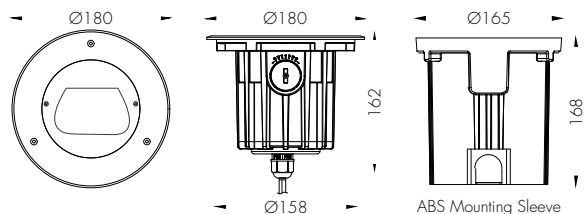


Square Front Cover 12HE-A-A3
Made of SUS 316 stainless steel

Model No.: 12HD-A | 20W | Asymmetrical Reflector COB LED Inground Light



Units:mm



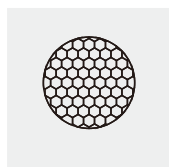
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12HD-A-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×20W CREE COB LED	Asymmetrical 27°	24VDC 120/240V	20	Cool White=1650 Warm white=1445	10

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2621KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS
Installation Way:	Recessed Mount

Optional Accessories



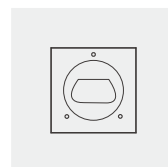
Honeycomb Louve 12HD-A-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HD-A-A2

Built-in anti-glare accessory for soft light output and improved visual comfort

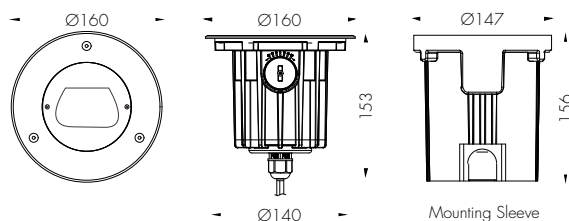


Square Front Cover 12HD-A-A3

Made of SUS 316 stainless steel

Model No.: 12HC-A | 15W | Asymmetrical Reflector COB LED Inground Light

Units:mm



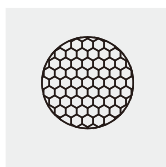
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HC-A-101	ON/OFF, PWM, TRIAC, DALI, 0-10V, DMX512	2700~6500K	1pcs×15W CREE COB LED	Asymmetrical 27°	24VDC 120/240V	15	Cool White= 1105 Warm white=936	10

Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2580KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Installation VWay:	Recessed Mount

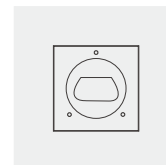
Optional Accessories



Honeycomb Louve SL2044A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Frosted Filter SL2044A2
Built-in anti-glare accessory for soft light output and improved visual comfort

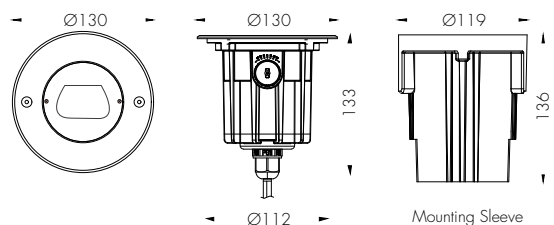


Square Front Cover SL2044A3
Made of SUS 316 stainless steel

Model No.: 12HB-A | 6W | Asymmetrical Reflector COB LED Inground Light



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12HB-A-101	ON/OFF, PWM, DMX512 (24VDC)	2700~6500K	1pcs×8W CREE COB LED	Asymmetrical 27°	24VDC 120/240V	6	Cool White=452 Warm white=370	09

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=2526KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V, or AC 110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS
Installation Way:	Recessed Mount

Optional Accessories



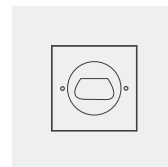
Honeycomb Louve 12HB-A-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HB-A-A2

Built-in anti-glare accessory for soft light output and improved visual comfort

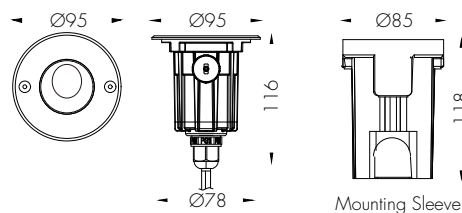


Square Front Cover 12HB-A-A3

Made of SUS 316 stainless steel

Model No.: 12HA-A | 3W | Asymmetrical Reflector COB LED Inground Light

Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12HA-A-101	ON/OFF, PWM	2700~6500K	1pcs×4W CREE COB LED	Asymmetrical 27°	24VDC 120/240V	3	Cool White= 245 Warm white=208	09

Material Specifications

Housing:	12# Die-Casting Black or Dark Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area=1295KGs
Lens:	Optical Lens, Efficiency≥90%
LED:	Type: COB LED; Brands: Osram, Cree, Bridgelux, Lumileds and etc.
Gasket:	Molding Shaped Silicone Seal
Cable Gland:	IP68, PG-9 Copper Nickel Plated
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (110~240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Installation Way:	Recessed Mount

Optional Accessories



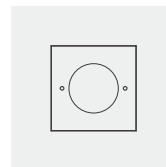
Honeycomb Louve 12HA-A-A1

For models with optics>30°.
Built-in anti-glare accessory for improved visual comfort



Frosted Filter 12HA-A-A2

Built-in anti-glare accessory for soft light output and improved visual comfort



Square Front Cover 12HA-A-A3

Made of SUS 316 stainless steel



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