



LIGHTING
TECHNOLOGY & CONTROL

KAKADU - SERIES

Inground Luminaires



IP67 LED Inground Lights



Kakadu-Series

Recessed LED Inground Uplight

LUMINAIRE:

- Die-cast aluminum body and ABS recessed box
- SUS 316 Stainless steel front cover
- 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
- Complies with standards EN60598 and pertinent regulations

LUMINAIRE TYPES:

- Round or square front cover inground luminaires
- Linear Inground luminaire
- Curved shaped inground luminaire
- Slim inground luminaire

OPTICAL SYSTEM:

- Polycarbonate UV-resistant optical lenses
- Symmetrical light, asymmetrical light or smooth light distribution for options
- Ultra spot, spot, narrow, medium, flood, wide flood and elliptic optics
- Optional anti-glare honeycomb louvre for improved visual comfort

LIGHT COLOUR MANAGEMENT:

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

INSTALLATION:

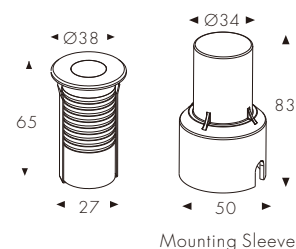
- For outdoor installation with ground recessed box



Model No.: 12YB-R | 1.5W | Mini Size LED Inground Light



Units:mm



Mounting Sleeve

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
12YB-R-101	ON/OFF, PWM	Single Color	1×1.5W Osram/CREE LED	Optical lens 25°, 40°, 60°	12/24VDC	1.5	Cool white=108 Warm white=90	06
12YB-R-101	ON/OFF, PWM	Single Color	1×1.5W Osram/CREE LED	White Print/Frosted Diffuser 120°	12/24VDC	1.5	Cool white=31 Warm white=25	06

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear or Frosted Step Tempered Glass, T=5mm
Glass Pressure Capacity:	Full Area=254KG
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	HO5RN-F 2×1.0mm², L=0.5m (Low Voltage 12/24VDC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC

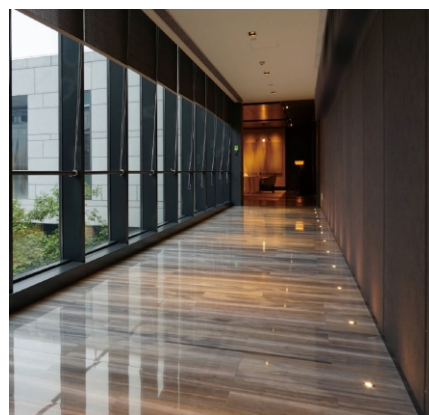
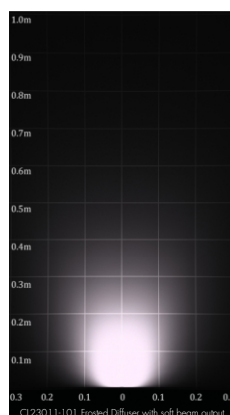
Lighting Effect



Frosted diffuser with soft light output

Optional Accessories

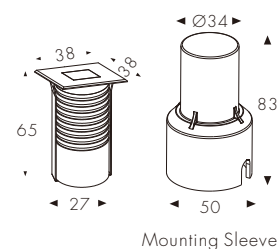
	Round Front Cover 12YB-AR Made of SUS 316 stainless steel Completed with inground light. Cannot order separately.
	Square Front Cover 12YB-AS Made of SUS 316 stainless steel Completed with inground light. Cannot order separately.



Model No.:12YB-S | 1.5W | Mini Size Square Cover LED Inground Light



Units:mm



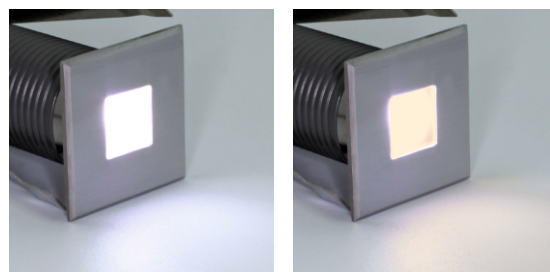
Technical Specifications

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
12YB-S-101	ON/OFF, PWM	Single Color	1x1.5W Osram/CREE LED	Optical lens 25°, 40°, 60°	12/24VDC	1.5	Cool white=108 Warm white=90	06
12YB-S-101	ON/OFF, PWM	Single Color	1x1.5W Osram/CREE LED	White Print Diffuser 120°	12/24VDC	1.5	Cool white=31 Warm white=25	06

Material Specifications

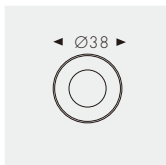
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear or Frosted Step Tempered Glass, T=5mm
Glass Pressure Capacity:	Full Area=254KG
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage12/24VDC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC

Lighting Effect

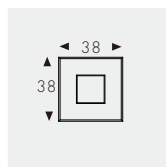


Frosted diffuser with soft light output

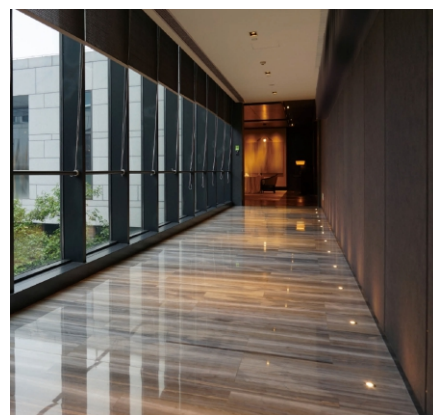
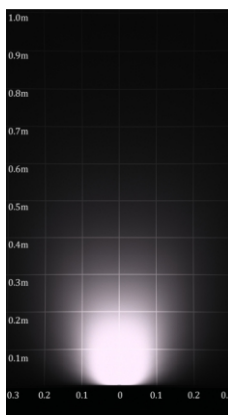
Optional Accessories



Round Front Cover 12YB-AR
Made of SUS 316 stainless steel
Completed with inground light.
Cannot order separately.



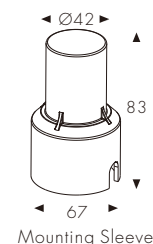
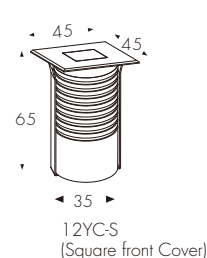
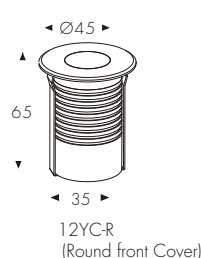
Square Front Cover 12YB-A-S
Made of SUS 316 stainless steel
Completed with inground light.
Cannot order separately.



Model No.: 12YC-R/S | 2~3W | Small Size LED Inground Light



Units:mm



Electrical 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
12YC-R-101 12YC-S-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	Optical lens 25°, 40°, 60°	12/24VDC 220/240VAC	2.6	Cool White=128 Warm White=109	06
12YC-R-301 12YC-S-301	ON/OFF, PWM	RGB Full Color	1x3W RGB 3-in-1 LED	Optical lens 25°, 40°, 60°	12/24VDC	3.2	70	06
12YC-R-101 12YC-S-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	White Print/Frosted Diffuser 120°	12/24VDC 220/240VAC	2.6	Cool White=55 Warm White=47	06

Note: Very warm white 2200K, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Clear or Frosted Step Tempered Glass, T=5mm
Glass Pressure Capacity:	Full Area=254KG
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC

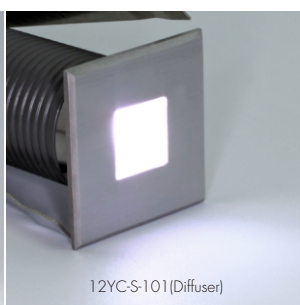
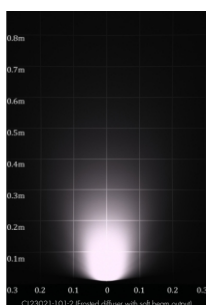


Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Lighting Effect



Surface light LED inground luminaire with White print or frosted diffuser and soft beam output.

45°|35° Asymmetrical Lighting Effect

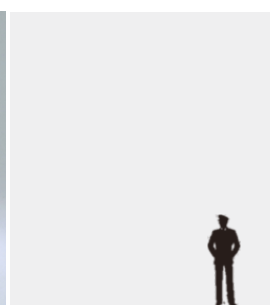


Illustration of downward asymmetrical light (Wall Recessed)

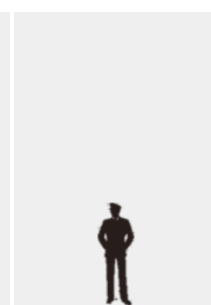


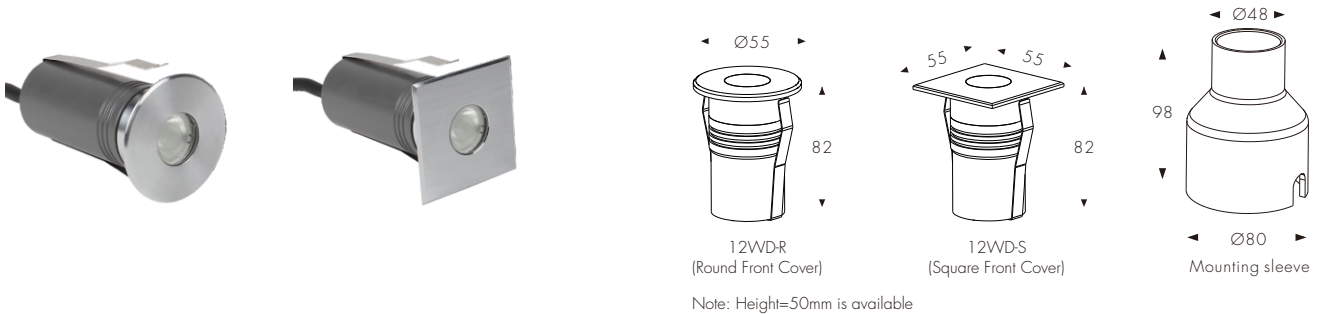
Illustration of upward asymmetrical light (Ground Recessed)



Model No.: 12WD-R/S | 2~3W | Small Size 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
12WDR-101 12WDS-101	ON/OFF, PWM	Single Color	1×2W OSRAM or CREE LED	Symmetrical Lens: 8°, 12°, 25°, 40°, 60°, Oval: 10×45°, 25×65°	12/24VDC 220/240VAC	2.6	Cool White=125 Warm White=102	08
12WDR-301 12WDS-301	ON/OFF, PWM	RGB Full Color	1×3W RGB 3-in-1 LED	Symmetrical Lens: 25°, 40°, 60°, Oval: 10×45°, 25×65°	12/24VDC	3.2	70	08
12WDR-101 12WDS-101	ON/OFF, PWM	Single Color	1×2W OSRAM or CREE LED	Asymmetrical Lens 45° 35°	12/24VDC 220/240VAC	2.6	Cool White=77 Warm White=65	08

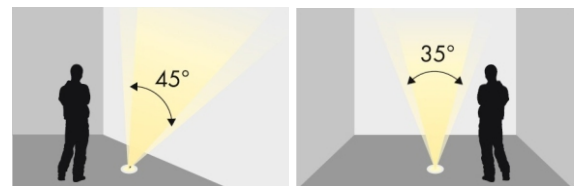
Note: Very warm white 2200K, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=1074KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage12/24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories

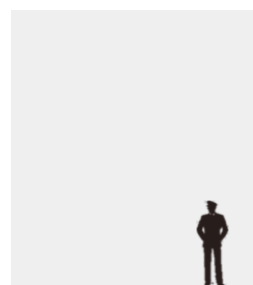
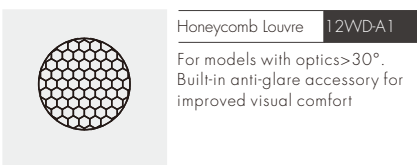


Illustration of downward asymmetrical light

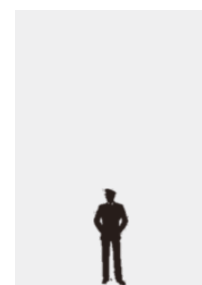
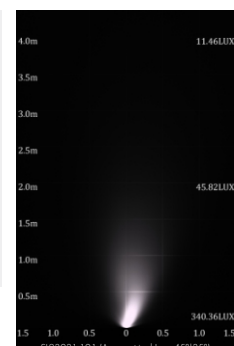


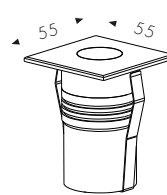
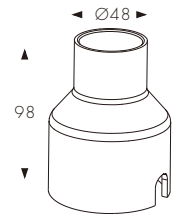
Illustration of upward asymmetrical light



Model No.: 12WD-R/S | 2~3W | Soft Beam Output LED Inground Light



Units:mm

12WD-R
(Round Front Cover)12WD-S
(Square Front Cover)

Mounting sleeve

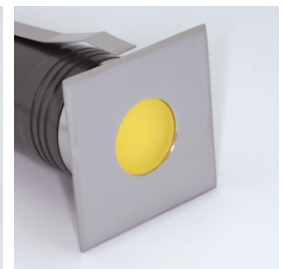
Technical Specifications

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
12WDR-101 12WDS-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	White Print or Frosted Diffuser 120°	12/24VDC 220/240VAC	2.6	Cool White=125 Warm White=102	08
12WDR-301 12WDS-301	ON/OFF, PWM	RGB Full Color	1x3W RGB 3-in-1 LED	White Print or Frosted Diffuser 120°	12/24VDC	3.2	70	08

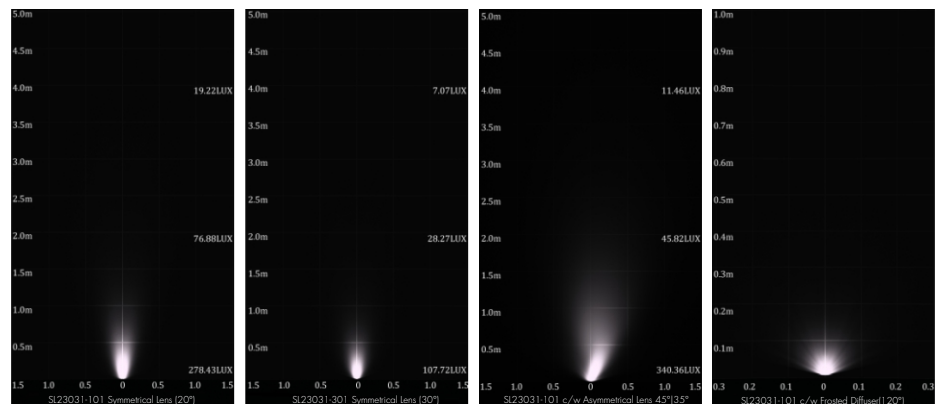
Note: Very warm white 2200K, RGBV color are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Print or Frosted Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=1074KG
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², l=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², l=0.5m (120/240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



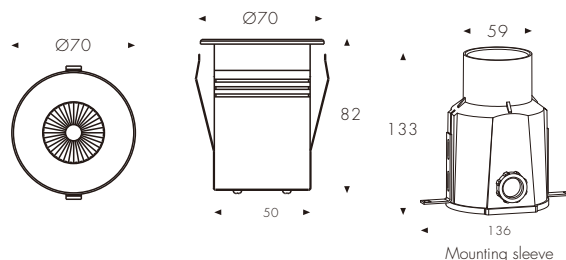
White print or frosted diffuser with soft light output



Model No.: 12IR-R | 5W/6W/8W | Recessed LED Inground Up Light



Units:mm

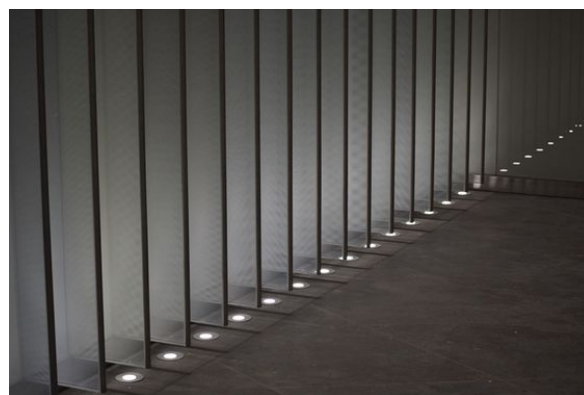


Technical Specifications

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
12IR-R-101	ON/OFF, PWM	Single Color	1x5W CREE COB LED	15°, 24°, 36°, 60°	12/24VDC 220/240VAC	5.5	Cool White=455 Warm White=397	08
12IR-R-301	ON/OFF, PWM	RGB Full Color	1x6W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	6	168	08
12IR-R-401	ON/OFF, PWM	RGBW Full Color	1x8W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	8	256	08

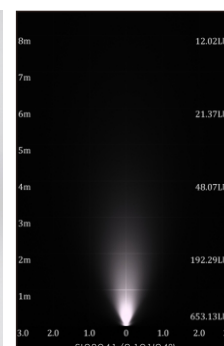
Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=633KG
Optical lens:	Optical lens or Reflector
LED:	Type: COB LED, Brands: Cree, Bridgelux and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



Optional Accessories

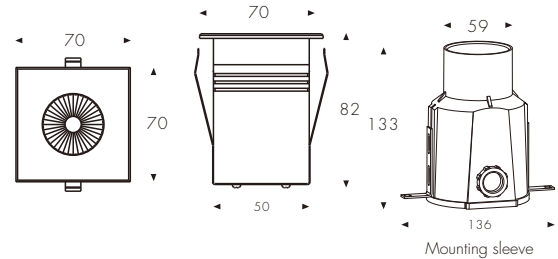
	Honeycomb Louvre 12IR-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort
	Elliptical Filter 12IR-A2 10x60° elliptical filter For elliptical light output



Model No.: 12IR-S | 5W/6W/8W | Square Front Cover LED Inground Up Light



Units:mm

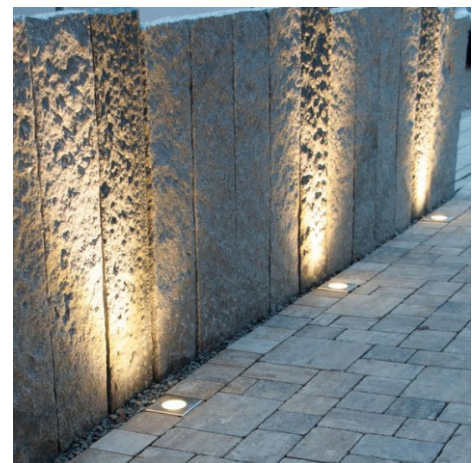


Technical Specifications

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
12IR-S-101	ON/OFF, PWM	Single Color	1x5W CREE COB LED	15°, 24°, 36°, 60°	12/24VDC 220/240VAC	5.5	Cool White=455 Warm White=397	08
12IR-S-301	ON/OFF, PWM	RGB Full Color	1x6W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	6	168	08
12IR-S-401	ON/OFF, PWM	RGBW Full Color	1x8W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	8	256	08

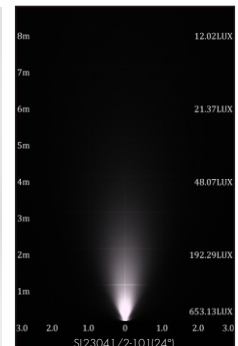
Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=633KG
Optical lens:	Optical lens or Reflector
LED:	Type: COB LED, Brands: Cree, Bridgelux and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage 24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



Optional Accessories

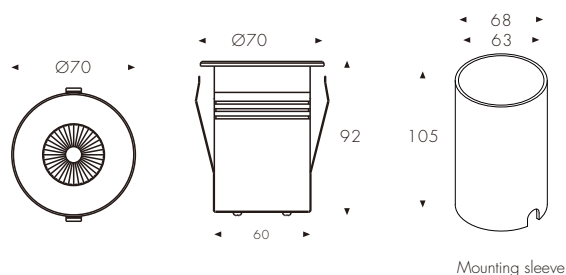
	Honeycomb Louve 12IR-A1
	For models with optics>30°. Built-in anti-glare accessory for improved visual comfort
	Elliptical Filter 12IR-A2
	10x60° elliptical filter For elliptical light output



Model No.: 12IP-R | 9W/10W | Recessed LED Inground Up Light



Units:mm



Mounting sleeve

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
12IP-R-101	ON/OFF, PWM	Single Color	1×9W CREE COB LED	15°, 24°, 36°, 60°	24VDC 220/240VAC	9	Cool White=765 Warm White=650	08
12IP-R-301	ON/OFF, PWM	RGB Full Color	1×9W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	9	240	08
12IP-R-401	ON/OFF, PWM	RGBW Full Color	1×10W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	10	320	08

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=633KG
Optical lens:	Optical lens (basic) or Reflector (optional)
LED:	Type: COB LED, Brands: Cree, Bridgelux and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC) H05RN-F 4×0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

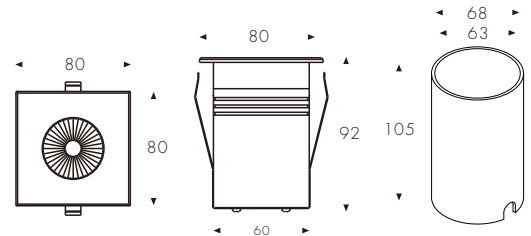
Optional Accessories

	Honeycomb Louvre 12IP-A1
	For models with optics>30°. Built-in anti-glare accessory for improved visual comfort
	Elliptical Filter 12IP-A2
	10×60° elliptical filter For elliptical light output



Model No.: 12IP-S | 9W/10W | Square Front Cover LED Inground Up Light

Units:mm



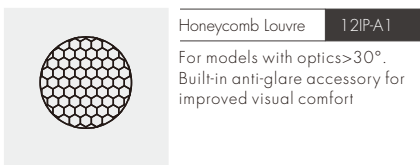
Mounting sleeve

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
12IP-S-101	ON/OFF, PWM	Single Color	1×9W CREE COB LED	15°, 24°, 36°, 60°	24VDC 220/240VAC	9	Cool White=765 Warm White=650	08
12IP-S-301	ON/OFF, PWM	RGB Full Color	1×9W RGB 3-in-1 LED	15°, 25°, 40°, 60°	24VDC	9	240	08
12IP-S-401	ON/OFF, PWM	RGBW Full Color	1×10W RGBW 4-in-1 LED	15°, 25°, 40°, 60°	24VDC	10	320	08

Material Specifications

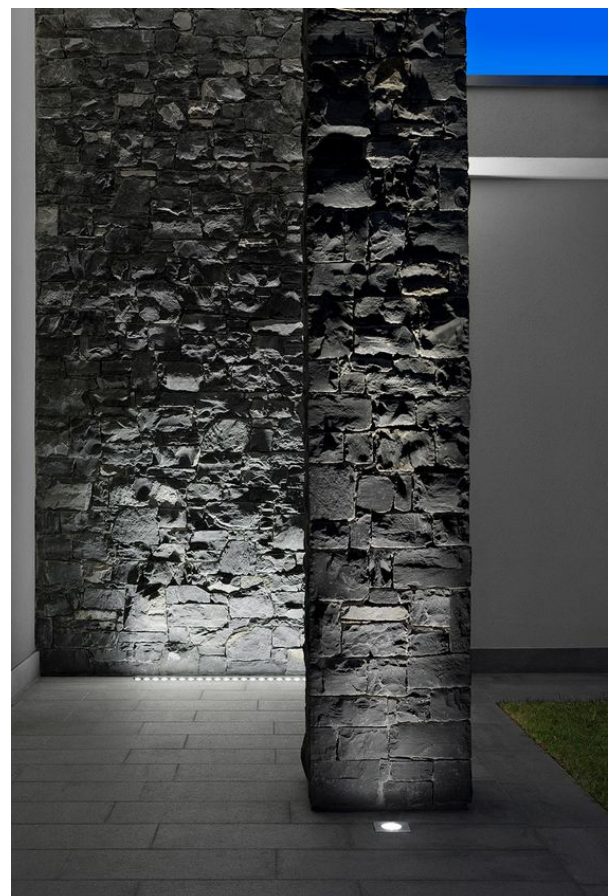
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=633KG
Optical lens:	Optical lens (basic) or Reflector (optional)
LED:	Type:COB LED, Brands: Cree, Bridgelux and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage 24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC) H05RN-F 4×0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

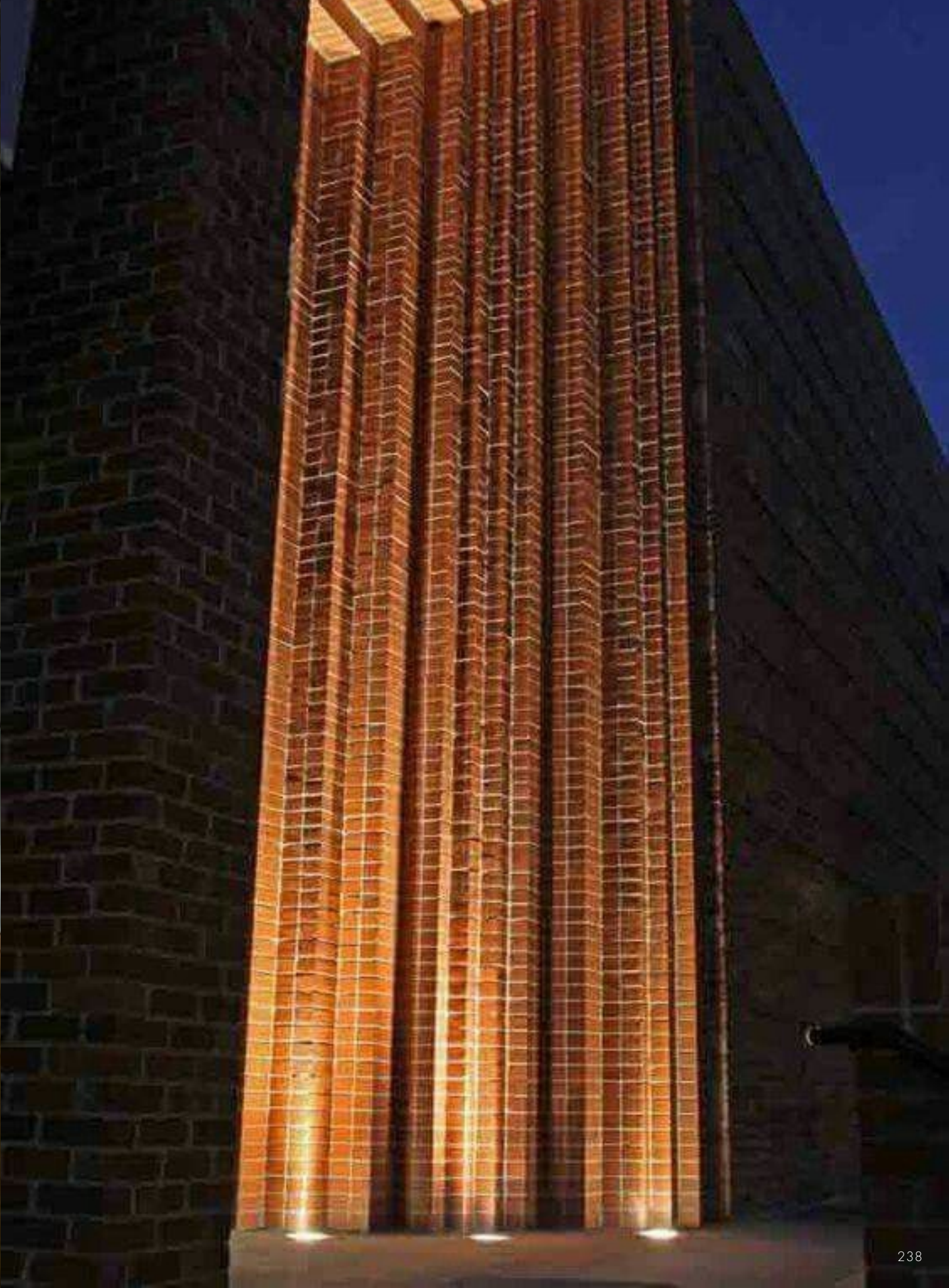
Optional Accessories

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



Elliptical Filter 12IP-A2
10×60° elliptical filter For elliptical light output

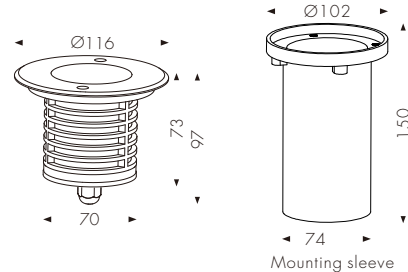




Model No.: 12CD-R | 6W/7.5W/10.5W | Recessed LED Inground Up Light



Units:mm



Electrical Specifications

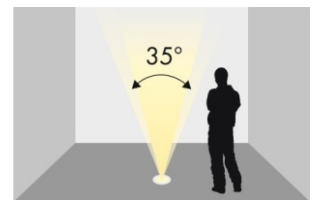
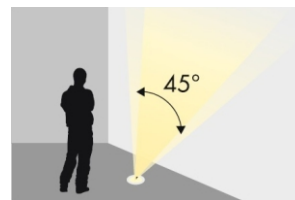
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) [Ø1/2]	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12CD-R-103	ON/OFF, PWM	Single Color	3x2W CREE or OSRAM LED	5°, 15°, 24°, 40°, 60°, 10x45°, 25x60°, Asymmetrical 45° 35°	24VDC 220/240VAC	6	Cool White=468 Warm White=397	09
12CD-R-303	ON/OFF, PWM	RGB Full Color	3x2.5W RGB 3-in-1 LED	12°, 25°, 40°, 60° 12x45°	24VDC	7.5	165	09
12CD-R-403	ON/OFF, PWM	RGBW Full Color	3x3.5W RGBW 4-in-1 LED	12°, 25°, 40°, 60° 12x45°	24VDC	10.5	286	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2578KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

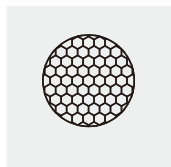


Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories



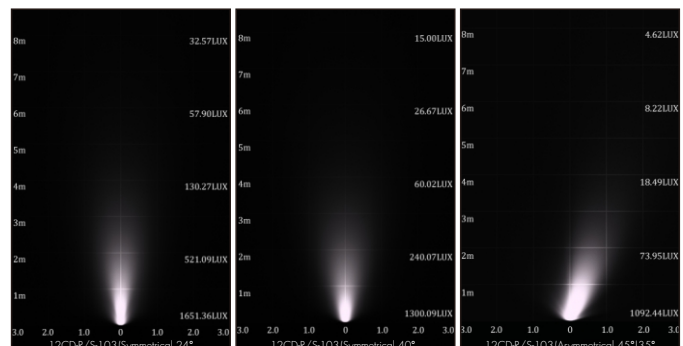
Honeycomb Louvre 12CD-A1

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



Elliptical Filter 12CD-A2

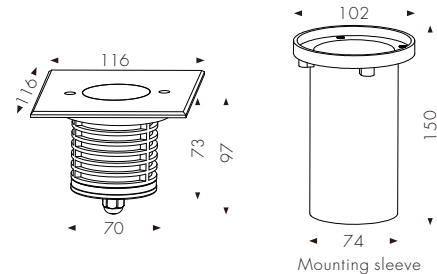
10x60° elliptical filter For elliptical light output



Model No.: 12CD-S | 6W/9W | Square Front Cover LED Inground Up Light



Units:mm



Electrical Specifications

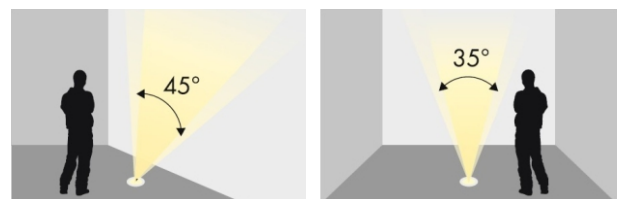
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12CD-S-103	ON/OFF, PWM	Single Color	3x2W CREE or OSRAM LED	5°, 15°, 24°, 40°, 60°, 10x45°, 25x60°, Asymmetrical 45° 35°	24VDC 220/240VAC	6	Cool White=468 Warm White=397	09
12CD-S-303	ON/OFF, PWM	RGB Full Color	3x2.5W RGB 3-in-1 LED	12°, 25°, 40°, 60° 12x45°	24VDC	7.5	165	09
12CD-S-403	ON/OFF, PWM	RGBW Full Color	3x3.5W RGBW 4-in-1 LED	12°, 25°, 40°, 60° 12x45°	24VDC	10.5	286	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2578KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

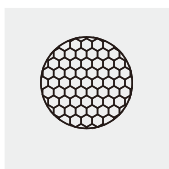


Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories



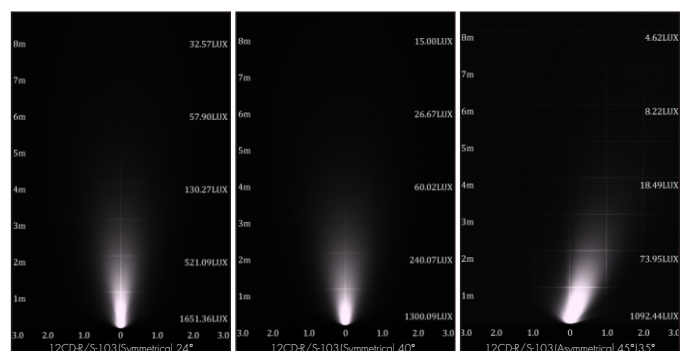
Honeycomb Louvre 12CDA1

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



Elliptical Filter 12CDA2

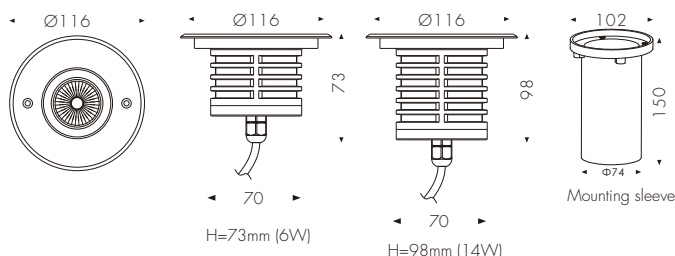
10x60° elliptical filter
For elliptical light output



Model No.: 12CD-R | 6W/14W | COB LED Recessed Inground Up Light



Units:mm



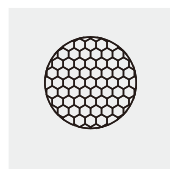
Electrical Specifications

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
12CD-R-101 (H=73mm)	ON/OFF, PWM	2700~6500K	1x8W CREE COB LED	18°, 24°, 38°, 60° (Reflector)	24VDC 220/240VAC	6	Cool White=510 Warm White=433	09
12CD-R-401 (H=73mm)	ON/OFF, PWM	RGBW Full Color	1x6W RGBW 4-in-1 LED	24°, 38°, 60° (Optical Lens)	24VDC	6W	168	09
12CD-R-101 (H=98mm)	ON/OFF, PWM	2700~6500K	1x15W CREE COB LED	18°, 24°, 38°, 60° (Reflector)	24VDC 220/240VAC	14	Cool White=1190 Warm White=1011	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2578KG
Reflector:	Reflector (Optional Optical lens), efficiency≥85%.
LED:	Type: COB LED, Brands: OSRAM, Cree, Bridgelux and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Optional Accessories



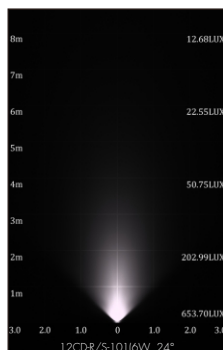
Honeycomb Louvre 12CDA-1

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



Elliptical Filter 12CDA-2

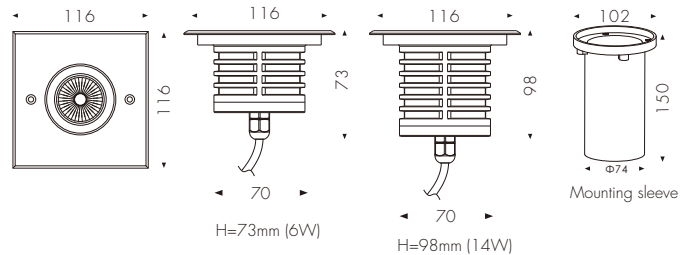
10x60° elliptical filter
For elliptical light output



Model No.: 12CD-S | 6W/14W | Square Front Cover COB LED Inground Up Light



Units:mm



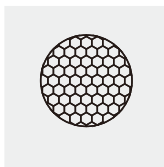
Electrical Specifications

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
12CD-S-101 (H=73mm)	ON/OFF, PWM	2700~6500K	1x8W CREE COB LED	18°, 24°, 38°, 60° (Reflector)	24VDC 220/240VAC	6	Cool White=510 Warm White=433	09
12CD-S-401 (H=73mm)	ON/OFF, PWM	RGBW Full Color	1x6W RGBW 4-in-1 LED	24°, 38°, 60° (Optical lens)	24VDC	6W	168	09
12CD-S-101 (H=98mm)	ON/OFF, PWM	2700~6500K	1x15W CREE COB LED	18°, 24°, 38°, 60° (Reflector)	24VDC 220/240VAC	14	Cool White=1190 Warm White=1011	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2578KG
Reflector:	Reflector (Optional Optical lens), efficiency≥85%.
LED:	Type: COB LED, Brands: OSRAM, Cree, Bridgelux and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

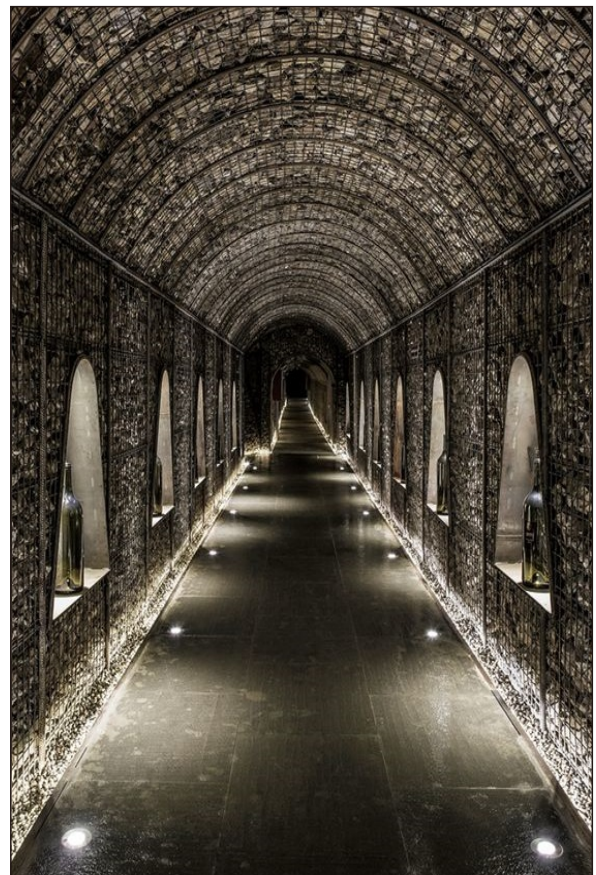
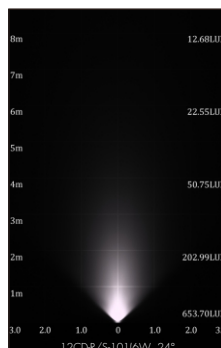
Optional Accessories



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



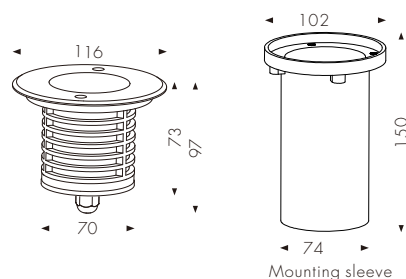
Elliptical Filter 12CD-A2
10x60° elliptical filter For elliptical light output



Model No.: 12CD-R | 1.6W/2W | Surface Light LED Inground Luminaire



Units:mm



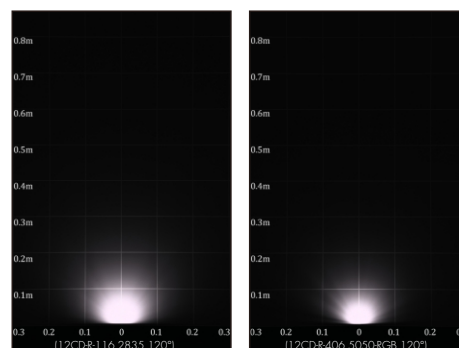
Technical Specifications

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
12CD-R-116	ON/OFF, PWM	Single Color	16xOSRAM 2835 SMD LED	120°	24VDC 220/240VAC	1.6	Cool White=52 Warm White=44	09
12CD-R-306	ON/OFF, PWM	RGB Full Color	6xSMD 5050 RGB 3-in-1 LED	120°	24VDC	1.6	10.8	09
12CD-R-406	ON/OFF, PWM	RGBWW Full Color	6xSMD 5060 RGBWW 4-in-1 LED	120°	24VDC	2	16	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step White Print Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2578KG
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

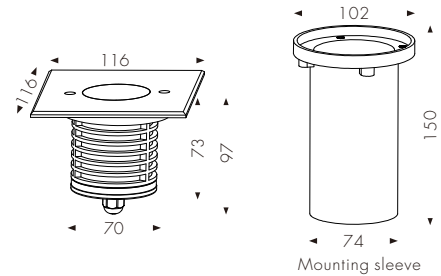
Optional Front Cover



Model No.: 12CD-S | 1.6W/2W | Surface Light LED Inground Luminaire



Units:mm



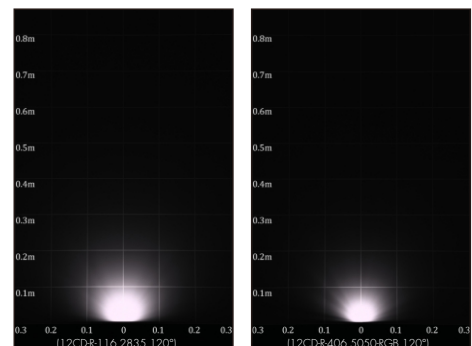
Technical Specifications

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
12CD-S-116	ON/OFF, PWM	Single Color	16xOSRAM 2835 SMD LED	120°	24VDC 220/240VAC	1.6	Cool White=52 Warm White=44	09
12CD-S-306	ON/OFF, PWM	RGB Full Color	6xSMD 5050 RGB 3-in-1 LED	120°	24VDC	1.6	10.8	09
12CD-S-406	ON/OFF, PWM	RGBW Full Color	6xSMD 5060 RGBW 4-in-1 LED	120°	24VDC	2	16	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step White Print Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2578KG
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RNF 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RNF 3x0.75mm², L=0.5m (120/240VAC) H05RNF 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Optional Front Cover



Model No.: 12BF-R | 13W/17W(RGB)/21W(RGBW) | Recessed LED Inground 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
12BF-R-106	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	10°, 24°, 40°, 60°, 10x45°, 25x45° Asymmetrical 45° 35°	24VDC 220/240VAC	13	Cool White=958 Warm White=785	09
12BF-R-101	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	2700~6500K	1x15W CREE COB LED	15°, 24°, 38°, 60°	24VDC 220/240VAC	13	Cool White=1235 Warm White=1049	09
12BF-R-306	ON/OFF, PWM	RGB Full Color	6x2.5W RGB 3-in-1 LED	25°, 40°, 60° 12x45°	24VDC	17	405	09

Note: RGBW 4-in-1 Full color version and 9-LED version are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2275KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD or COB LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



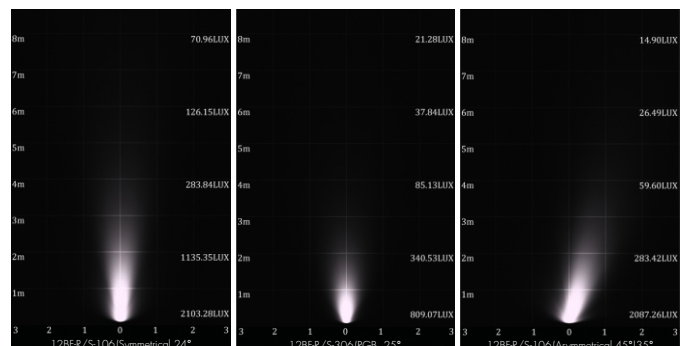
Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories

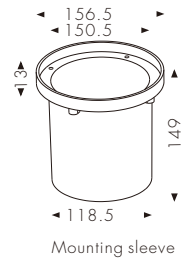
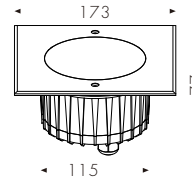
	Honeycomb Louve 12BF-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort
	Elliptical Filter 12BF-A2 10x60° elliptical filter For elliptical light output



Model No.: 12BF-S | 13W/17W(RGB)/21W(RGBW) | Square LED Inground 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
12BF-S-106	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	6x2W CREE or OSRAM LED	10°, 24°, 40°, 60°, 10x45°, 25x45° Asymmetrical 45° 35°	24VDC 220/240VAC	13	Cool White=958 Warm White=785	09
12BF-S-101	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	2700~6500K	1x15W CREE COB LED	15°, 24°, 38°, 60°	24VDC 220/240VAC	13	Cool White=1235 Warm White=1049	09
12BF-S-306	ON/OFF, PWM	RGB Full Color	6x2.5W RGB 3-in-1 LED	25°, 40°, 60° 12x45°	24VDC	17	405	09

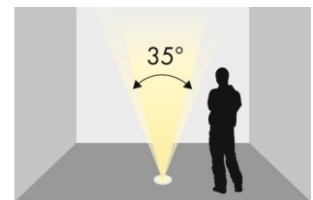
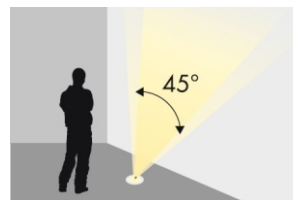
Note: RGBW 4-in-1 Full color version and 9-LED version are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2275KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD or COB LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



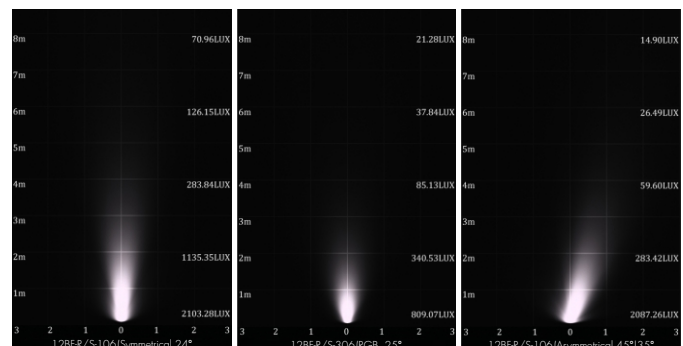
Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories

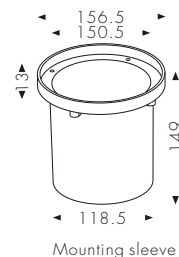
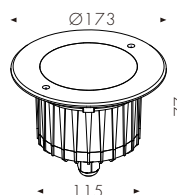
	Honeycomb Louve 12BF-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort
	Elliptical Filter 12BF-A2 10x60° elliptical filter For elliptical light output



Model No.: 12BF-R | 3.8W/5.2W(RGBW) | Soft Beam Output LED Inground Light



Units:mm



Mounting sleeve

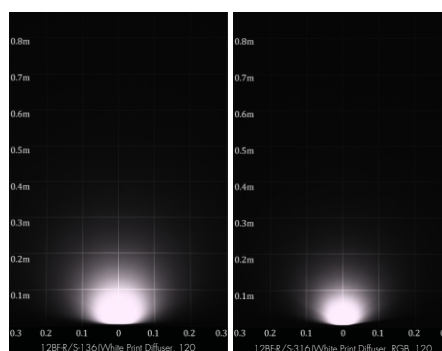
Technical Specifications

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
12BF-R-136	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	36x OSRAM 2835 SMD LED	120°	24VDC 220/240VAC	3.8	Cool White=85 Warm White=72	09
12BF-R-316	ON/OFF, PWM, DMX512	RGB Full Color	16x SMD 5050 RGB 3-in-1 LED	120°	24VDC	3.9	19	09
12BF-R-416	ON/OFF, PWM, DMX512	RGBW Full Color	16x SMD 5050 RGBW 4-in-1 LED	120°	24VDC	5.2	32	09

Material Specifications

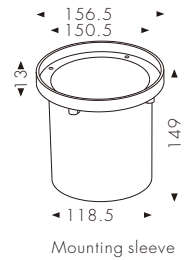
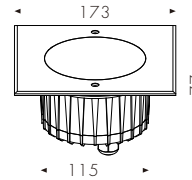
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step White Print (or Frosted) Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2275KG
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Optional Front Cover



Model No.: 12BF-S | 3.8W/5.2W | Square Surface Light LED Inground Luminaire

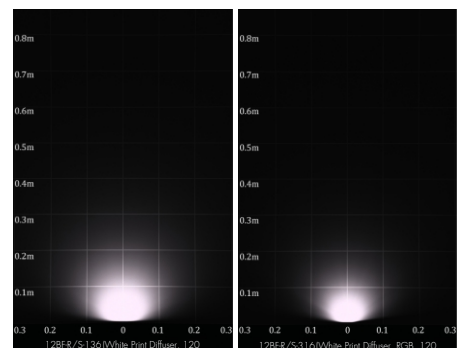
Units:mm

**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
12BF-S-136	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	36× OSRAM 2835 SMD LED	120°	24VDC 220/240VAC	3.8	Cool White=85 Warm White=72	09
12BF-S-316	ON/OFF, PWM, DMX512	RGB Full Color	16× SMD 5050 RGB 3-in-1 LED	120°	24VDC	3.9	19	09
12BF-S-416	ON/OFF, PWM, DMX512	RGBW Full Color	16× SMD 5050 RGBW 4-in-1 LED	120°	24VDC	5.2	32	09

Material Specifications

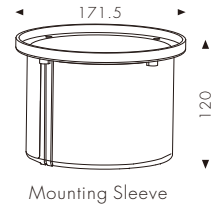
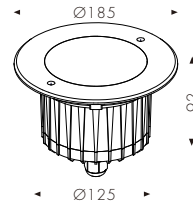
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step White Print (or Frosted) Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2275KG
LED:	Type: SMD LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC) H05RN-F 4×0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Optional Front Cover

Model No.: 12BV-R | 25W(Single)/30W(RGB) | Recessed LED Inground Up Light



Units:mm



Mounting Sleeve

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
12BV-R-112	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	12x2W CREE or OSRAM LED	10°, 24°, 40°, 60°, 10x45°, 25x45° Asymmetrical 45° 35°	24VDC 220/240VAC	25	Cool White=1795 Warm White=1476	09
12BV-R-101	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	2700~6500K	1x25W CREE COB LED	15°, 24°, 38°, 60°	24VDC 220/240VAC	25	Cool White=2257 Warm White=1948	09
12BV-R-312	ON/OFF, PWM	RGB Full Color	12x2.5W RGB 3-in-1 LED	25°, 40°, 60° 12x45°	24VDC	30	630	09

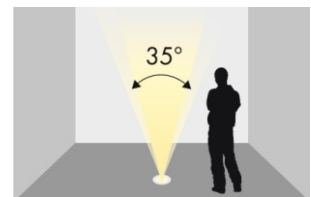
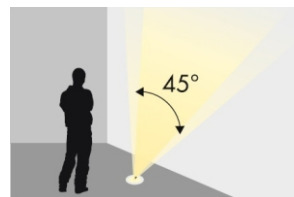
Note: RGBW 4-in-1 Full colour version and 18pcs LEDs or 36pcs LEDs version are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3489KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD or COB LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories

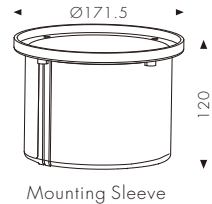
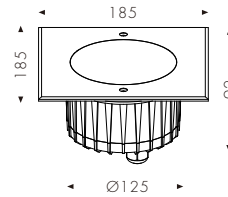
	Honeycomb Louve 12BV-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort
	Elliptical Filter 12BV-A2 10x60° elliptical filter For elliptical light output

Overview



Model No.: 02BV-S | 25W(Single)/30W(RGB) | Square Front Cover LED Inground Up Light

Units:mm



Mounting Sleeve

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
12BV-S-112	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	Single Color	12x2W CREE or OSRAM LED	10°, 24°, 40°, 60°, 10x45°, 25x45° Asymmetrical 45° 35°	24VDC 220/240VAC	25	Cool White=1795 Warm White=1476	09
12BV-S-101	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	2700~6500K	1x25W CREE COB LED	15°, 24°, 38°, 60°	24VDC 220/240VAC	25	Cool White=2257 Warm White=1948	09
12BV-S-312	ON/OFF, PWM	RGB Full Color	12x2.5W RGB 3-in-1 LED	25°, 40°, 60° 12x45°	24VDC	30	630	09

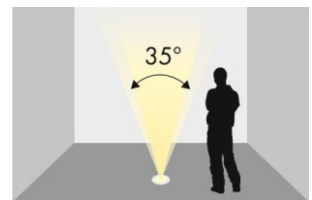
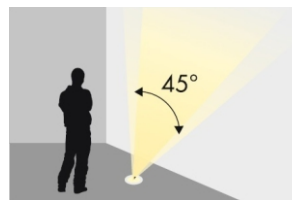
Note: RGBW 4-in-1 Full color version and 18pcs LEDs or 36pcs LEDs version are available upon request.

Material Specifications

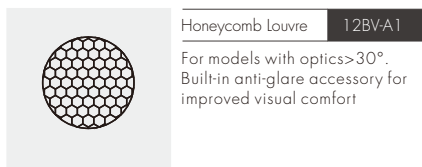
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3489KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: SMD or COB LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC



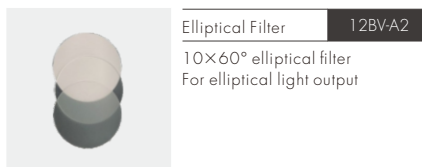
Asymmetrical lens 45°|35°



Asymmetrical lens 45°|35°

Optional Accessories

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



Elliptical Filter 12BV-A2
10x60° elliptical filter
For elliptical light output

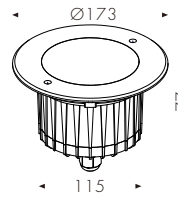
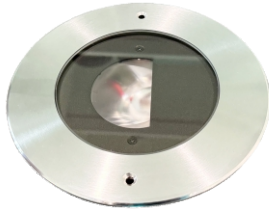
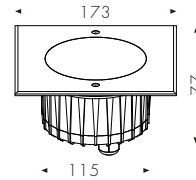
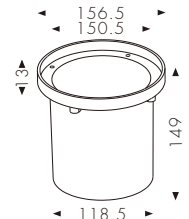


Lighting Effect for 45°|35° Asymmetrical light Output

Model No.: 12BF-R/S | 13W | Asymmetrical LED Inground Up Light



Units:mm

02BF-R
(Round Front Cover)02BF-S
(Square Front Cover)

Mounting sleeve

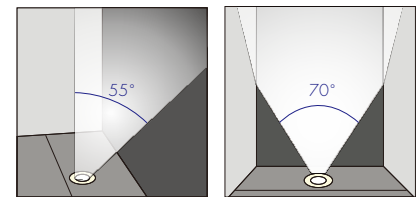
Technical Specifications

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
12BF-R-101 12BF-S-101	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	2700~6500K	1x15W CREE COB LED	Asymmetrical Lens 55° 70°	24VDC 220/240VAC	13	Cool White=975 Warm White=809	09

Material Specifications

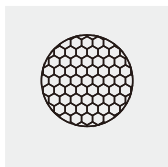
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=2275KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: COB LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Impression Drawing



Impression drawing of Asymmetrical Lens 55°|70°

Optional Accessories



Honeycomb Louve 12BF-A1

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



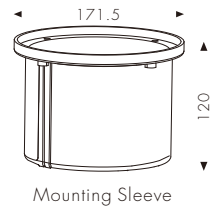
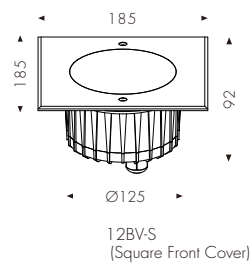
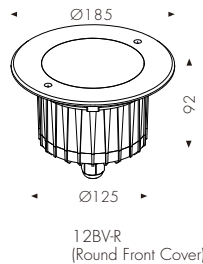
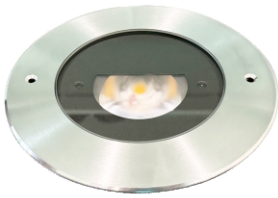
Elliptical Filter 12BF-A2

10×60° elliptical filter
For elliptical light output



Model No.: 12BV-R/S | 25W(Single)/30W(RGB) | Asymmetrical ED Inground Up Light

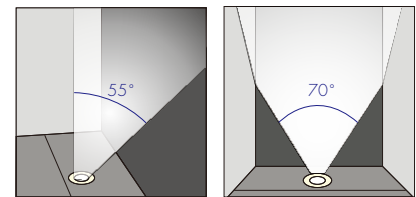
Units:mm

**Technical Specifications**

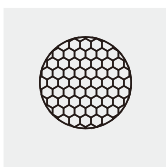
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12BV-R-101 12BV-S-101	ON/OFF, PWM, 0-10V, TRIAC, DALI, DMX512	2700~6500K	1×25W CREE COB LED	Asymmetrical lens 55° 70°	24VDC 220/240VAC	25	Cool White=1873 Warm White=1556	09

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=8mm
Glass Pressure Capacity:	Full Area=3489KG
Optical lens:	Optical lens, efficiency≥85%.
LED:	Type: COB LED, Brands: OSRAM, Cree, and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC) H05RN-F 4×0.75mm², L=0.5m (RGB)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional Remote DALI, 0/1-10V, DMX512, TRIAC

Impression Drawing

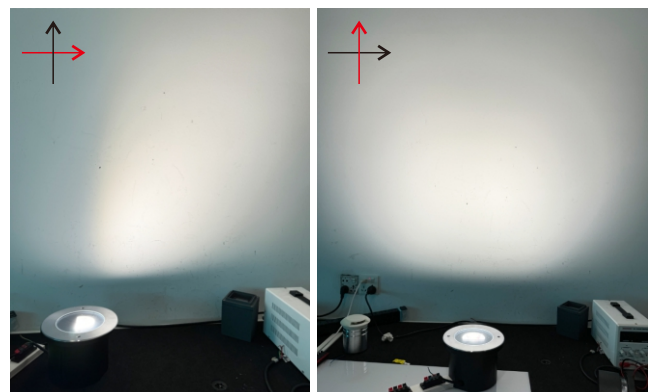
Impression drawing of Asymmetrical Lens 55°|70°

Optional Accessories**Honeycomb Louve** 12BV-A1

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

**Elliptical Filter** 12BV-A2

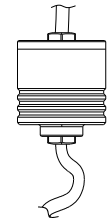
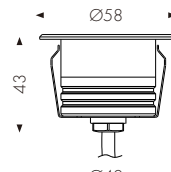
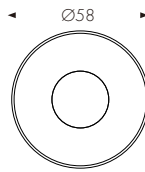
10×60° elliptical filter For elliptical light output



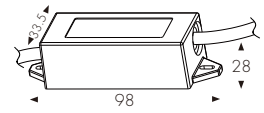
Model No.: 12XA-R | 2W(Single)/3W(RGB) | Slim Recessed Wooden Floor Light



Units:mm



Cylindrical Driver



Cuboid Driver

Optional Driver Metal Box

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
12XA-R-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	Symmetrical Lens: 10°, 25°, 45°, 60°	12/24VDC 220/240VAC	2	Cool White=120 Warm White=98	08
12XA-R-301	ON/OFF, PWM	RGB Full Color	1x2.5W RGB 3-in-1 LED	Symmetrical Lens: 25°, 40°, 60°	12/24VDC	3	62	08
12XA-R-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	Asymmetrical Lens 45° 35°	12/24VDC 220/240VAC	2	Cool White=102 Warm White=83	08

Note: Very warm white 2200K is available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=1106KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Type: External In-Line LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input Shape: Cuboid and cylinder Shaped for Options
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)



Symmetrical lens



Asymmetrical lens 45°|35°



Minimum space for external in-line driver is 48mm.

Optional Accessories



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



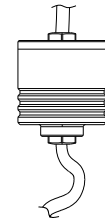
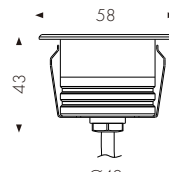
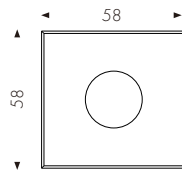
Elliptical Filter 12XA-A2
10x60° elliptical filter For elliptical light output



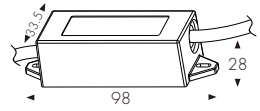
Model No.: 12XA-S | 2W(Single)/3W(RGB) | Square Wooden Floor Light



Units:mm



Cylindrical Driver



Cuboid Driver

Optional Driver Metal Box

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
12XA-S-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	Symmetrical Lens: 10°, 25°, 45°, 60°	12/24VDC 220/240VAC	2	Cool White=120 Warm White=98	08
12XA-S-301	ON/OFF, PWM	RGB Full Color	1x2.5W RGB 3-in-1 LED	Symmetrical Lens: 25°, 40°, 60°	12/24VDC	3	62	08
12XA-S-101	ON/OFF, PWM	Single Color	1x2W OSRAM or CREE LED	Asymmetrical Lens 45° 35°	12/24VDC 220/240VAC	2	Cool White=102 Warm White=83	08

Note: Very warm white 2200K is available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	Step Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=1106KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Type: External In-Line LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input Shape: Cuboid and cylinder Shaped for Options
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)



Symmetrical lens

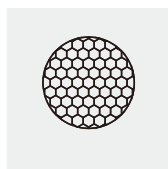


Asymmetrical lens 45°|35°



Minimum space for external in-line driver is 48mm.

Optional Accessories

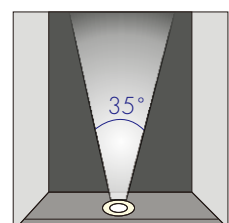
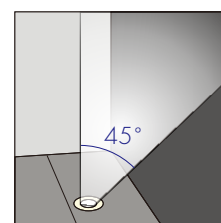
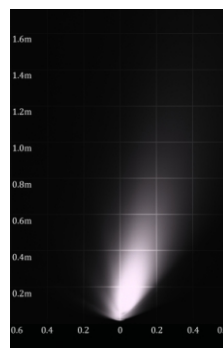


Honeycomb Louve 12XA-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



Elliptical Filter 12XA-A2
10×60° elliptical filter For elliptical light output

Lighting Effect of Asymmetrical Lens 45°|35°

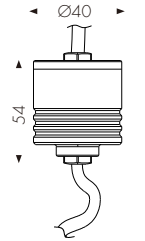
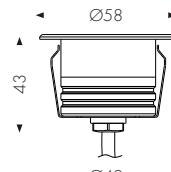
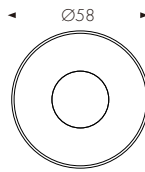


Impression Drawing of Asymmetrical Lens 45°|35°

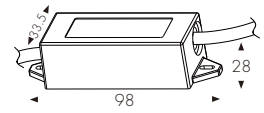
Model No.: 12XA-R | 2W/3W | Soft Beam Output Recessed Wooden Floor Light



Units:mm



Cylindrical Driver



Cuboid Driver

Optional Driver Metal Box

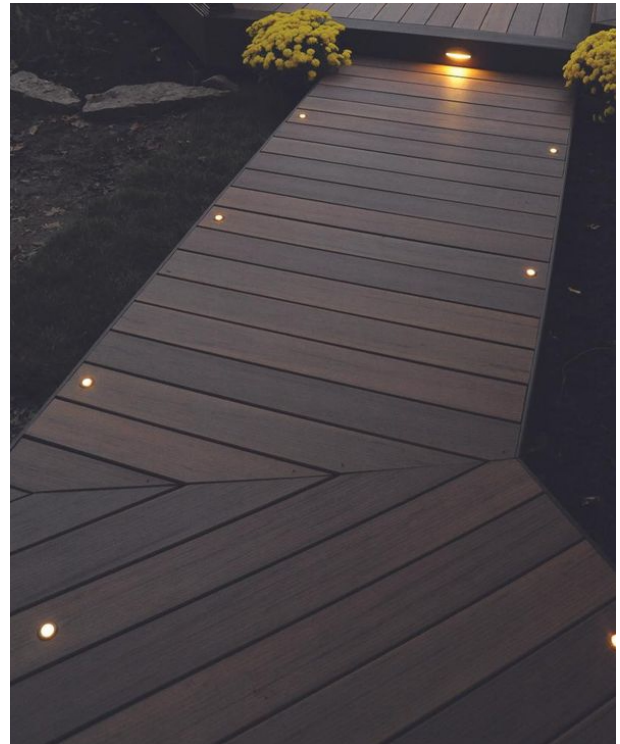
Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Print/Frosted Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=1106KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Type: External In-Line LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input Shape: Cuboid and cylinder Shaped for Options
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage12/24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC) H05RN-F 4×0.75mm², L=0.5m (RGB)

Installation Demo



Minimum space for external in-line driver is 48mm.



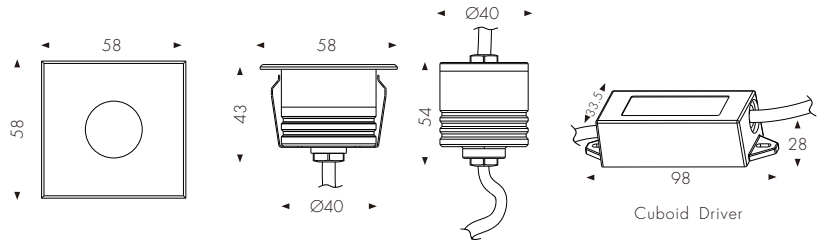
Technical Specifications

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
12XA-R-101	ON/OFF, PWM	Single Color	1×2W OSRAM or CREE LED	120°	12/24VDC 220/240VAC	2	Cool White=25 Warm White=18	08
12XA-R-301	ON/OFF, PWM	RGB Full Color	1×2.5W RGB 3-in-1 LED	120°	12/24VDC	3	9	08

Note: Very warm white 2200K is available upon request.

Model No.: 12XA-S | 2W/3W | Slim Type Soft Beam Square Wooden Floor Light

Units:mm



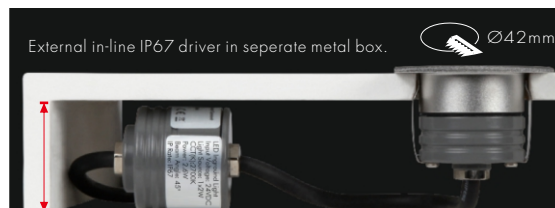
Cylindrical Driver

Optional Driver Metal Box

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Print/Frosted Tempered Glass, T=7mm
Glass Pressure Capacity:	Full Area=1106KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	<u>Type:</u> External In-Line LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input <u>Shape:</u> Cuboid and cylinder Shaped for Options
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm ² , L=0.5m (Low Voltage12/24VDC) H05RN-F 3×0.75mm ² , L=0.5m (120/240VAC) H05RN-F 4×0.75mm ² , L=0.5m (RGB)

Installation Demo



Minimum space for external in-line driver is 48mm.

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
12XA-S-101	ON/OFF, PWM	Single Color	1×2W OSRAM or CREE LED	120°	12/24VDC 220/240VAC	2	Cool White=25 Warm White=18	08
12XA-S-301	ON/OFF, PWM	RGB Full Color	1×2.5W RGB 3-in-1 LED	120°	12/24VDC	3	9	08

Note: Very warm white 2200K is available upon request.



Lighting Technology & Control Pty Ltd
ABN. 36 607 221 223
Office: 1300 832 372
Email: sales@lighttc.com.au
Address: Unit 34/50-62 Cosgrove Road,
South Strathfield.NSW. 2136 Australia

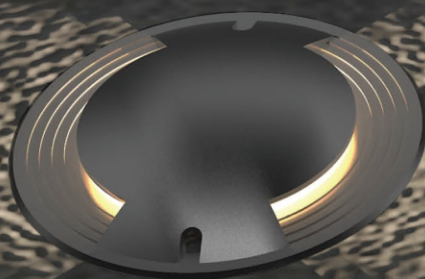
www.lighttc.com.au



LIGHTING
TECHNOLOGY & CONTROL

DRIVE-OVER TYPE

**LOAD CAPACITY
>2000KG**







Drive-Over Side Emitting Recessed LED Inground Light

LUMINAIRE:

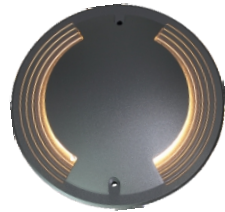
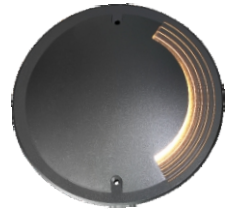
- SUS 316 stainless steel front cover
- 12# Die-cast aluminum housing with Tiger or Akzo powder coated
- ABS Mounting sleeve (recessed box) included
- Shock resistant tempered glass cover for protection
- Can be walked over and driven over
- Electrically neutral thermal path to ensure performance
- Protection Rating IP67 for outdoor applications
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

- Optional 1-way/ 2-way/ 4-way side emitting light distribution

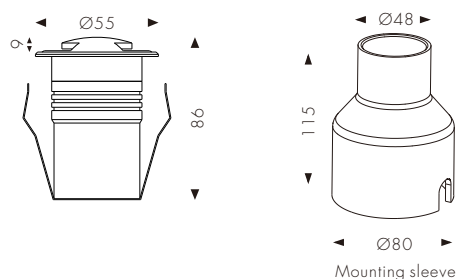
INSTALLATION:

- For outdoor installation with mounting sleeve (ground recessed box)



Model No.: 12WD-W | 2W | Side Emitting Drive-Over 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
12WD-W1-101	ON/OFF, PWM	Single Color	1x2W OSRAM CREE LED	120° (1-way)	12/24VDC 220/240VAC	2.6	-	10
12WD-W2-101	ON/OFF, PWM	Single Color	1x2W OSRAM CREE LED	2x120° (2-way)	12/24VDC 220/240VAC	2.6	-	10
12WD-W4-101	ON/OFF, PWM	Single Color	1x2W OSRAM CREE LED	4x60° (4-way)	12/24VDC 220/240VAC	2.6	-	10

Note: Very warm white 2200K or RGB are available upon request.

Material Specifications

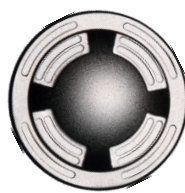
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Acrylic
Loading Capacity:	>2000KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included)	ABS

Different Front Cover for Options

12WD-W1



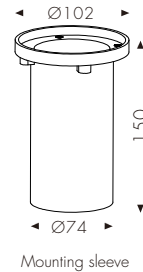
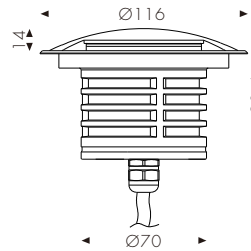
12WD-W2



12WD-W4

Model No.: 12CD-W | 3W/6W | Side Emitting Drive-Over LED Inground Light

Units:mm



Mounting sleeve

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
12CD-W1-116 12CD-W1-103	ON/OFF, PWM	Single Color	16x2835SMD LED/ 3x2W OSRAM LED	120° (1-way)	12/24VDC 220/240VAC	3.6W, 6.2W	-	10
12CD-W2-116 12CD-W2-103	ON/OFF, PWM	Single Color	16x2835SMD LED/ 3x2W OSRAM LED	2x120° (2-way)	12/24VDC 220/240VAC	3.6W, 6.2W	-	10
12CD-W4-116 12CD-W4-103	ON/OFF, PWM	Single Color	16x2835SMD LED/ 3x2W OSRAM LED	4x60° (4-way)	12/24VDC 220/240VAC	3.6W, 6.2W	-	10

Note: Very warm white 2200K or RGB are available upon request.

Material Specifications

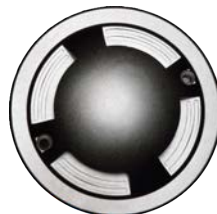
Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Acrylic
Loading Capacity:	>2000KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve(included)	ABS

Different Front Cover for Options

12CD-W1



12CD-W2

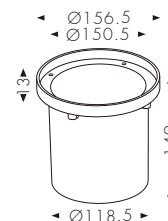
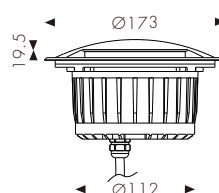


12CD-W4

Model No.: 12ER-W | 3.2W or 12W | Side Emitting Drive-Over LED Inground Light



Units:mm

12ER-W1
1-Way12ER-W2
2-Way12ER-W4
4-Way

Mounting sleeve

Technical Specifications

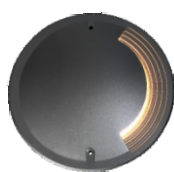
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12ER-W1-132 12ER-W1-106	ON/OFF, PWM	Single Color	36x2835SMD LED, or 6x2W OSRAM LED	110° (1-way)	12/24VDC 220/240VAC	3.2W, or 6W	-	10
12ER-W2-132 12ER-W2-106	ON/OFF, PWM	Single Color	36x2835SMD LED, or 6x2W OSRAM LED	2x110° (2-way)	12/24VDC 220/240VAC	3.2W, or 12W	-	10
12ER-W4-132 12ER-W4-106	ON/OFF, PWM	Single Color	36x2835SMD LED, or 6x2W OSRAM LED	4x55° (4-way)	12/24VDC 220/240VAC	3.2W, or 12W	-	10

Note: Very warm white 2200K or RGB are available upon request.

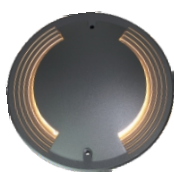
Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Acrylic
Loading Capacity:	>2000KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Mounting Sleeve (included)	ABS

Different Front Cover for Options



1-Way



2-Way



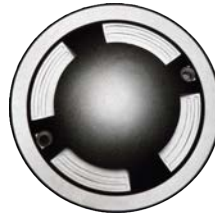
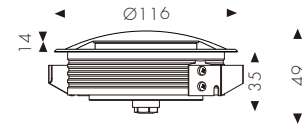
4-Way



Model No.: 12XB-W | 3W/6W | Slim Type Side Emitting LED Wooden Floor Light



Units:mm

12XB-W1
1-Way12XB-W2
2-Way12XB-W4
4-Way

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
12XB-W1-116 12XB-W1-103	ON/OFF, PWM	Single Color	16x2835SMD LED/ 3x2W OSRAM LED	120° (1-way)	12/24VDC 220/240VAC	3.6W, 6.2W	-	10
12XB-W2-116 12XB-W2-103	ON/OFF, PWM	Single Color	16x2835SMD LED/ 3x2W OSRAM LED	2x120° (2-way)	12/24VDC 220/240VAC	3.6W, 6.2W	-	10
12XB-W4-116 12XB-W4-103	ON/OFF, PWM	Single Color	16x2835SMD LED/ 3x2W OSRAM LED	4x60° (4-way)	12/24VDC 220/240VAC	3.6W, 6.2W	-	10

Note: Very warm white 2200K or RGB are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Acrylic
Loading Capacity:	>2000KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Spring(fixed on lamp housing)	304 Stainless Steel

Installation Diagram:

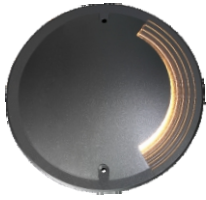
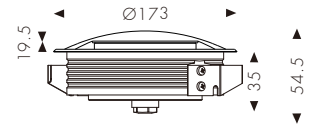


A: Minimum space for external driver is 48mm
B: External IP67 water-proof box for driver of high voltage, RGB, RGBW type



Model No.: 12XC-W | 6W/12W | Slim Type Side Emitting LED Wooden Floor Light

Units:mm

12XC-W1
1-Way12XC-W2
2-Way12XC-W4
4-Way**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
12XC-W1-132 12XC-W1-106	ON/OFF, PWM	Single Color	36x2835SMD LED, or 6x2W OSRAM LED	110° (1-way)	12/24VDC 220/240VAC	6W, or 12W	-	10
12XC-W2-132 12XC-W2-106	ON/OFF, PWM	Single Color	36x2835SMD LED, or 6x2W OSRAM LED	2x110° (2-way)	12/24VDC 220/240VAC	6W, or 12W	-	10
12XC-W1-132 12XC-W4-106	ON/OFF, PWM	Single Color	36x2835SMD LED, or 6x2W OSRAM LED	4x55° (4-way)	12/24VDC 220/240VAC	6W, or 12W	-	10

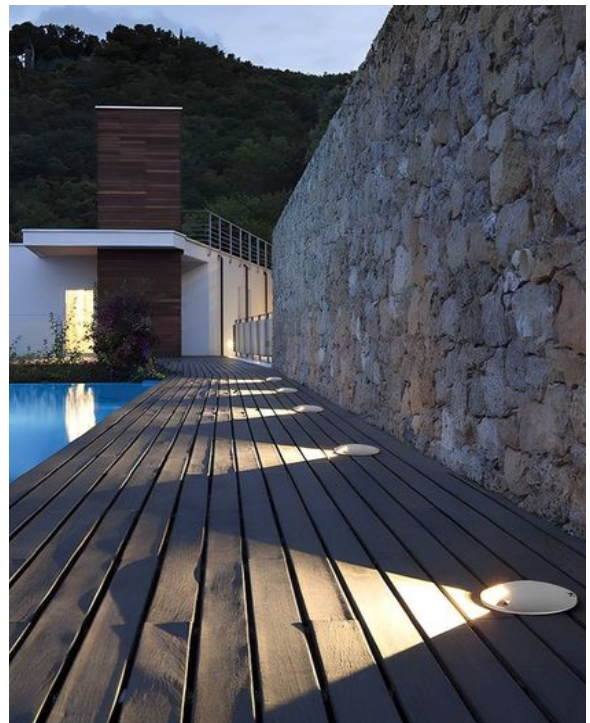
Note: Very warm white 2200K or RGB are available upon request.

Material Specifications

Housing:	12# Die-Casting Grey Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Stainless Steel SUS 316#
Light Window:	White Acrylic
Loading Capacity:	>2000KG
Lens:	Optical lens, Efficiency≥85%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC) H05RN-F 4x0.75mm², L=0.5m (RGB)
Spring(fixed on lamp housing)	304 Stainless Steel

Installation Diagram:

A: Minimum space for external driver is 48mm
B: External IP67 waterproof box for driver high voltage type





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South Strathfield.NSW. 2136 Australia

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