

SPIARE RECESSED

E9R144- -

base number
 Color Finish
 Temperature Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 80
 Length (in): 3 1/8
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8
 Depth (in): 1 1/2
 Light Distribution: Asymmetric
 Diffuser: Clear tempered glass
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#)
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 2.5
 Total Output Wattage (W): 1.9
 Dimming: Non-Dimmable
 Driver Included: Yes
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

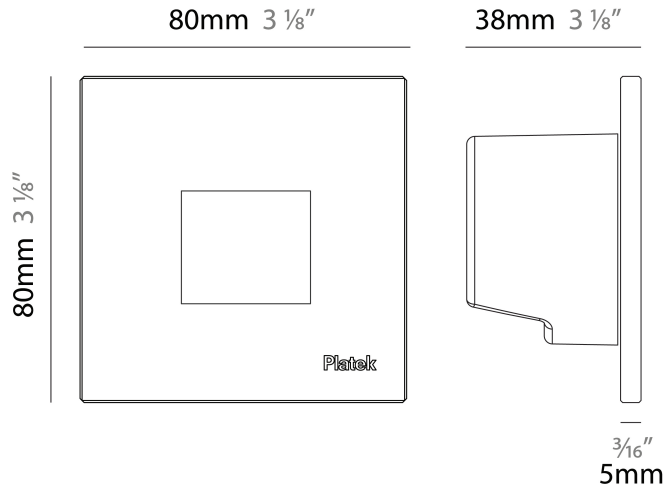
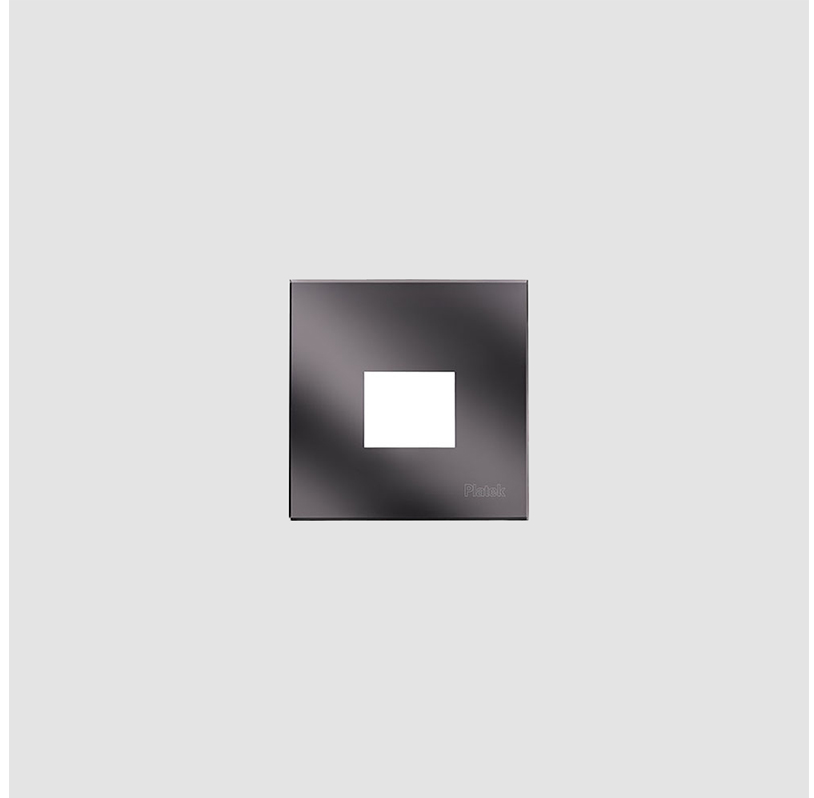
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 25
 Nominal Lumen (lm): 250 / 260
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Asymmetrical

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



SPIARE RECESSED

E9R144-

PROJECT

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PROJECT	_____
TYPE	_____
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SPIARE RECESSED

E9R145-

base number _____
 Finish _____
 Options _____

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare _____
 Brand: Platek _____
 Division: Exterior _____
 Mounting Type: Recessed _____
 Mounting Location: Wall _____
 Subcategory: Pedestrian _____

PHYSICAL

Shape: Square _____
 Length (mm): 80 _____
 Length (in): 3 1/8 _____
 Height (mm): 80 _____
 Depth (mm): 37.5 _____
 Height (in): 3 1/8 _____
 Depth (in): 1 1/2 _____
 Light Distribution: Direct _____
 Diffuser: Clear tempered glass _____
 Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ _____
 Fixture Material: Aluminum Die Cast _____
 Cut-out Measurements: 200 x 44.5mm _____

ELECTRICAL

Lamp Type: LED (Zhaga Standard) _____
 Input Wattage (W): 2.5 _____
 Total Output Wattage (W): 1.9 _____
 Dimming: Non-Dimmable _____
 Driver Included: Yes _____
 Driver Location: Remote _____
 Driver Type: Constant Voltage - 120 Vac _____
 Driver Class: Class 2 _____
 Input Voltage (V): 120 _____
 Output Voltage (V): 24 _____

LED

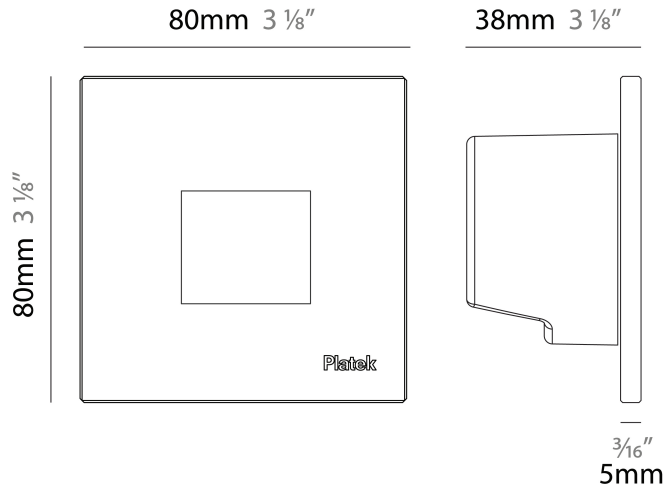
Number of LEDs: 1 _____
 Color Temperature (°K): 3000 _____
 Max. Delivered Lumen (lm): 25 _____
 Nominal Lumen (lm): 250 _____
 CRI: >80 CRI _____
 Lamp Life (hrs): 50000 _____

OPTICAL

Beam Angle: Asymmetrical _____

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards _____
 IP rating: IP65 _____
 IK Rating: IK05 _____



SPIARE RECESSED

E9R145-

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PROJECT	_____
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SPIARE RECESSED

E9R146- _____ - _____
 base number Color Finish
 Temperature Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 80
 Length (in): 3 1/8"
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8"
 Depth (in): 1 1/2"
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#)
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
 Input Wattage (W): 2.5
 Total Output Wattage (W): 1.9
 Dimming: Non-Dimmable
 Driver Included: Yes
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

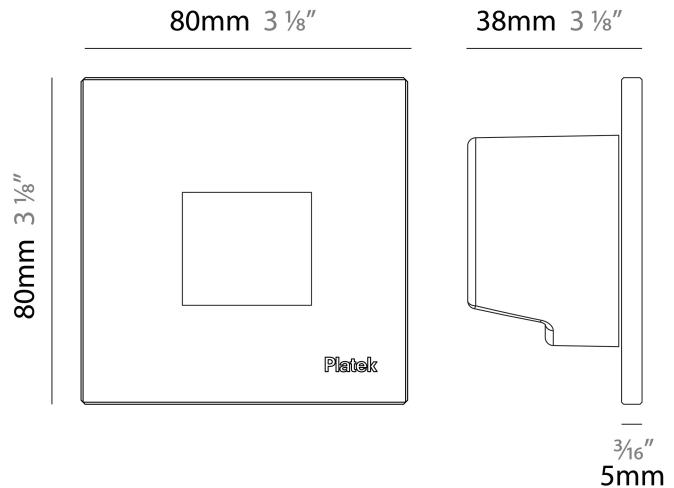
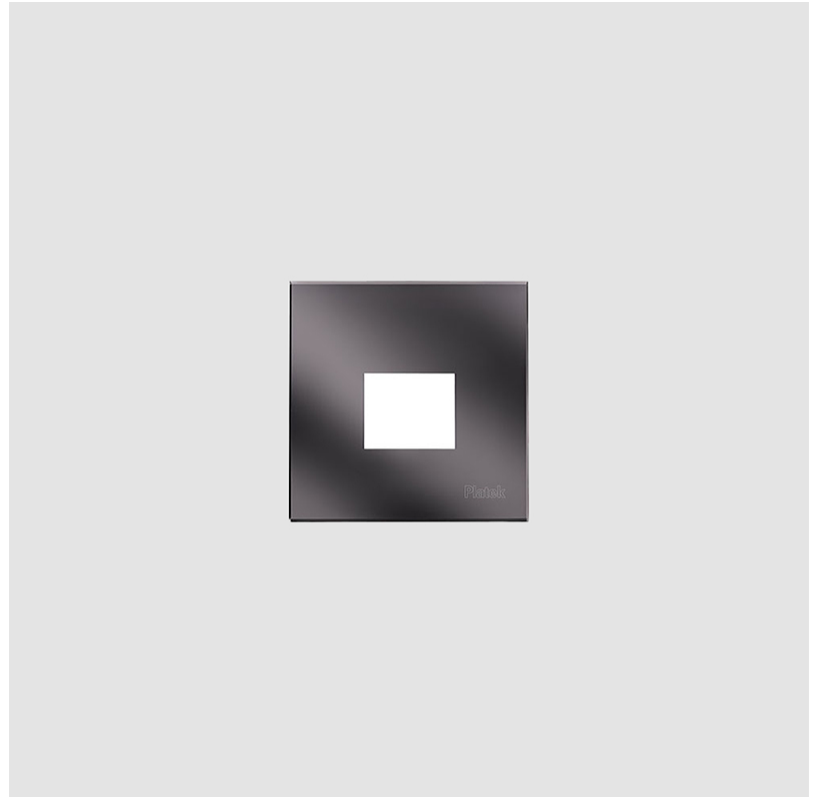
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 10
 Nominal Lumen (lm): 250 / 260
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



SPIARE RECESSED

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SPIARE RECESSED

E9R147-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare _____
 Brand: Platek _____
 Division: Exterior _____
 Mounting Type: Recessed _____
 Mounting Location: Wall _____
 Subcategory: Pedestrian _____

PHYSICAL

Shape: Square _____
 Length (mm): 80 _____
 Length (in): 3 1/8 _____
 Height (mm): 80 _____
 Depth (mm): 37.5 _____
 Height (in): 3 1/8 _____
 Depth (in): 1 1/2 _____
 Light Distribution: Direct _____
 Diffuser: Clear tempered glass _____
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#) _____
 Fixture Material: Aluminum Die Cast _____

ELECTRICAL

Lamp Type: LED (Zhaga Standard) _____
 Input Wattage (W): 6 _____
 Dimming: Non-Dimmable _____
 Driver Included: Yes _____
 Driver Location: Remote _____
 Driver Type: Constant Voltage - 120 Vac _____
 Driver Class: Class 2 _____
 Input Voltage (V): 120 _____
 Output Voltage (V): 24 _____

LED

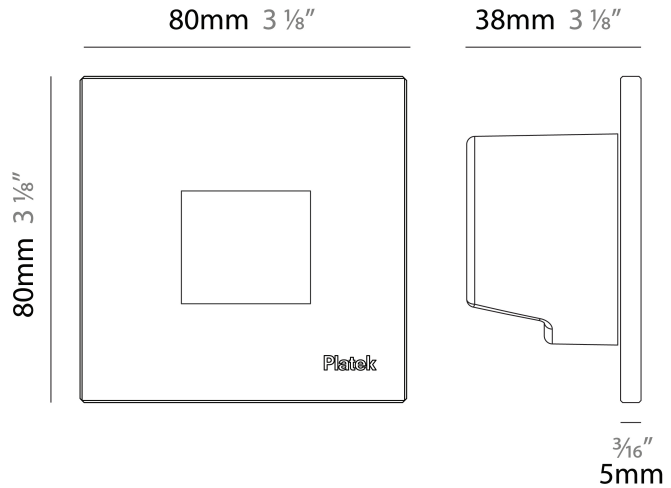
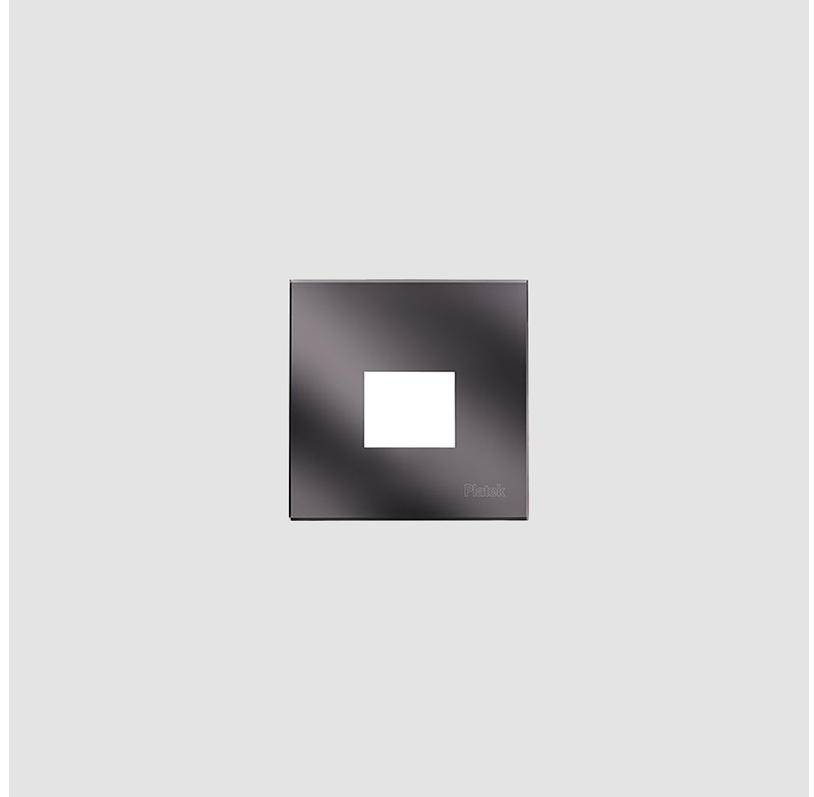
Number of LEDs: 1 _____
 Color Temperature (°K): 3000 _____
 Max. Delivered Lumen (lm): 10 _____
 Nominal Lumen (lm): 250 _____
 CRI: >80 CRI _____
 Lamp Life (hrs): 50000 _____

OPTICAL

Beam Angle: Asymmetrical _____

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards _____
 IP rating: IP65 _____
 IK Rating: IK05 _____



SPIARE RECESSED

E9R147-

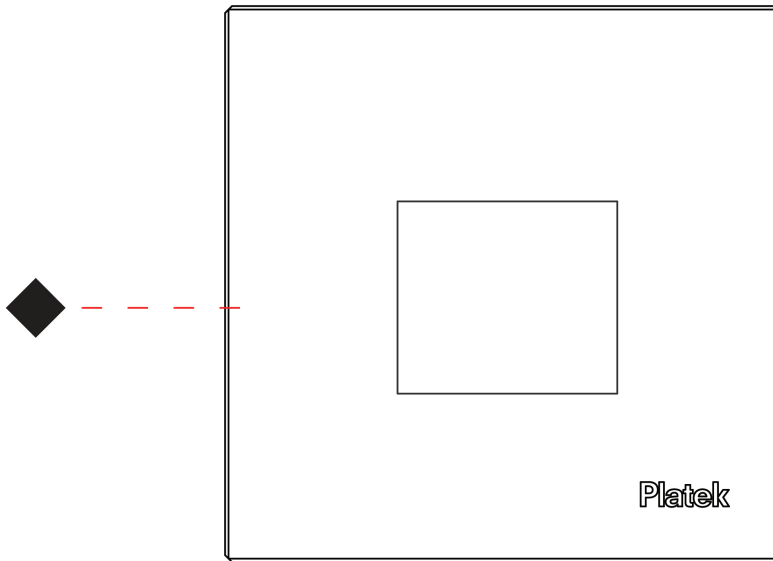
PROJECT

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SPIARE RECESSED

E9R148-

base number Color Finish
 Temperature Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 120
 Length (in): 4 3/4
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8
 Depth (in): 1 1/2
 Light Distribution: Asymmetric
 Diffuser: Clear tempered glass
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#)
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 6
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120 - 277
 Output Voltage (V): 24

LED

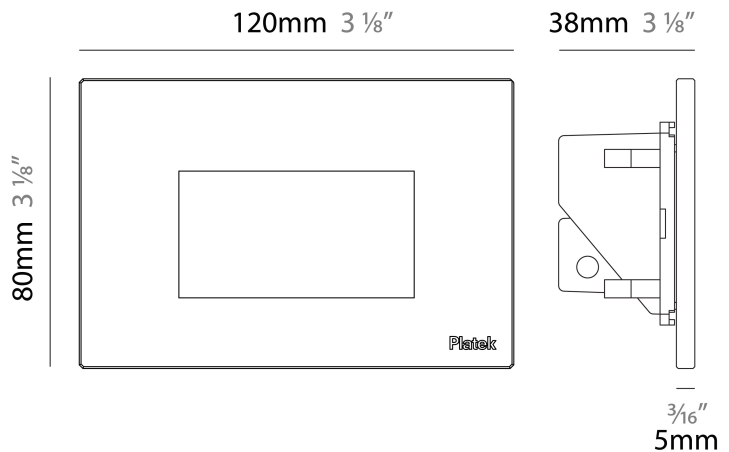
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 130
 Nominal Lumen (lm): 400 / 415
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Asymmetrical

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



SPIARE RECESSED

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E9R149-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 120
 Length (in): 4 3/4
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8
 Depth (in): 1 1/2
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ
 Fixture Material: Aluminum Die Cast
 Cut-out Measurements: 200 x 44.5mm

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 6
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

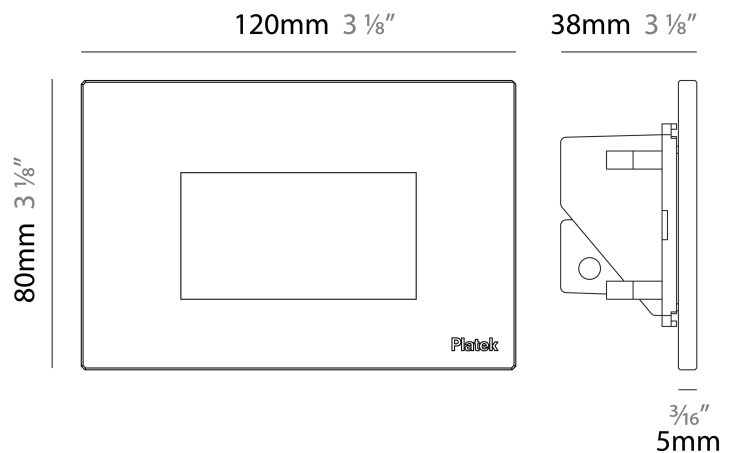
Number of LEDs: 1
 Color Temperature (°K): 3000
 Max. Delivered Lumen (lm): 130
 Nominal Lumen (lm): 400
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Asymmetrical

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



SPIARE RECESSED

E9R149-

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SPIARE RECESSED

E9R150- -
 base number Color Finish
 Temperature Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 120
 Length (in): 4 3/4
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8
 Depth (in): 1 1/2
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#)
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 6
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

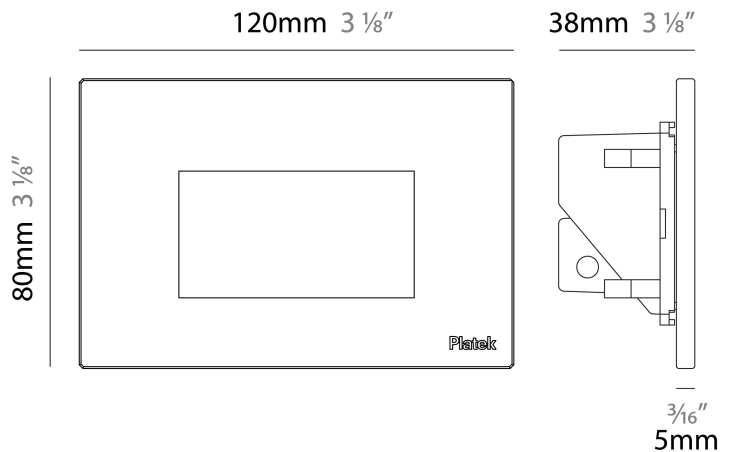
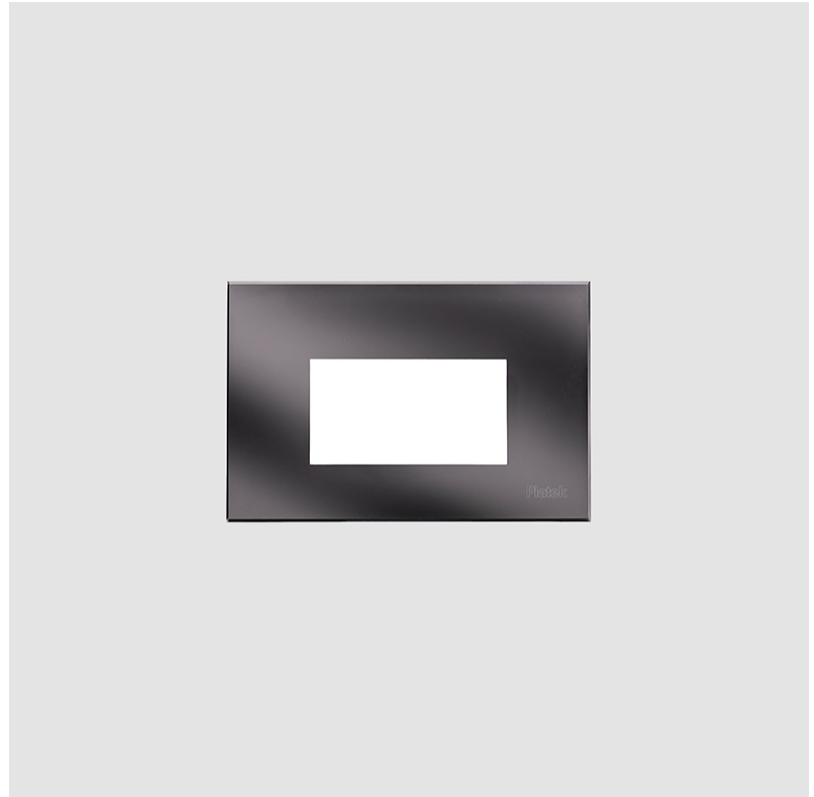
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 50
 Nominal Lumen (lm): 400/415
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



SPIARE RECESSED

E9R150-

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SPIARE RECESSED

E9R151-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 120
 Length (in): 4 ¾
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 ⅙
 Depth (in): 1 ½
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 6
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

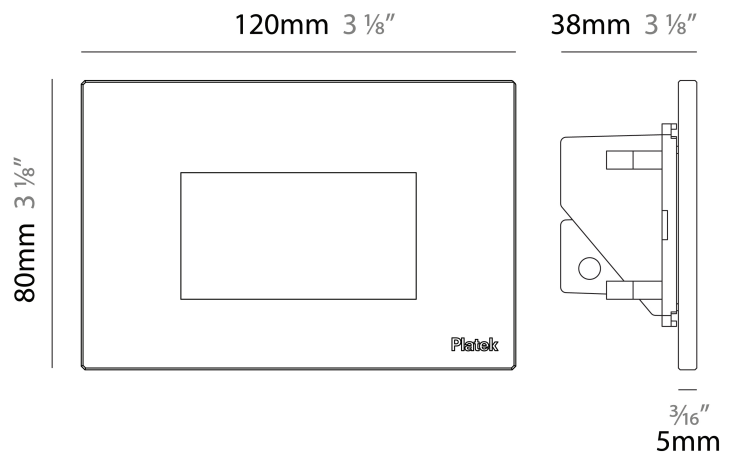
Number of LEDs: 1
 Color Temperature (°K): 3000
 Max. Delivered Lumen (lm): 50
 Nominal Lumen (lm): 250
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Asymmetrical

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
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SPIARE RECESSED

E9R151-

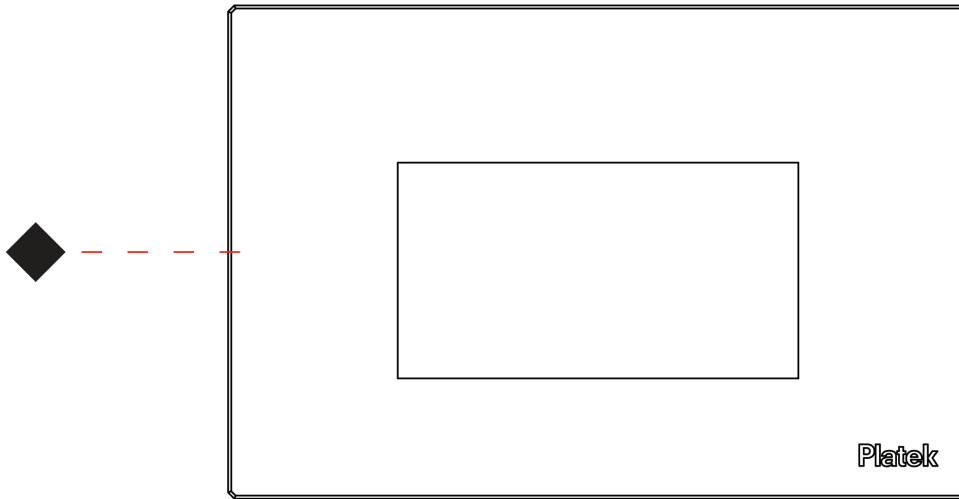
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E

SPIARE RECESSED

E9R152- -

base number
 Color Finish
 Temperature Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 190
 Length (in): 7 ½
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 ⅛
 Depth (in): 1 ½
 Light Distribution: Asymmetric
 Diffuser: Clear tempered glass
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#)
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

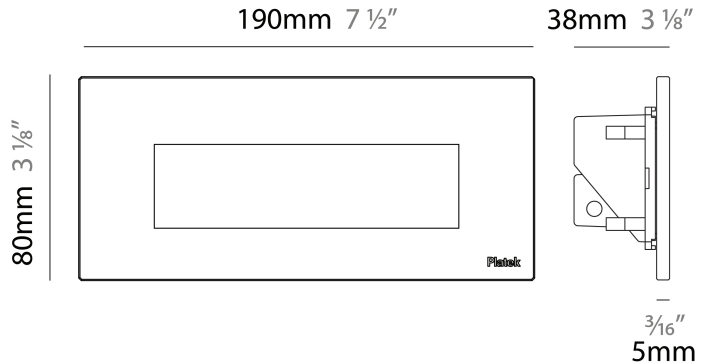
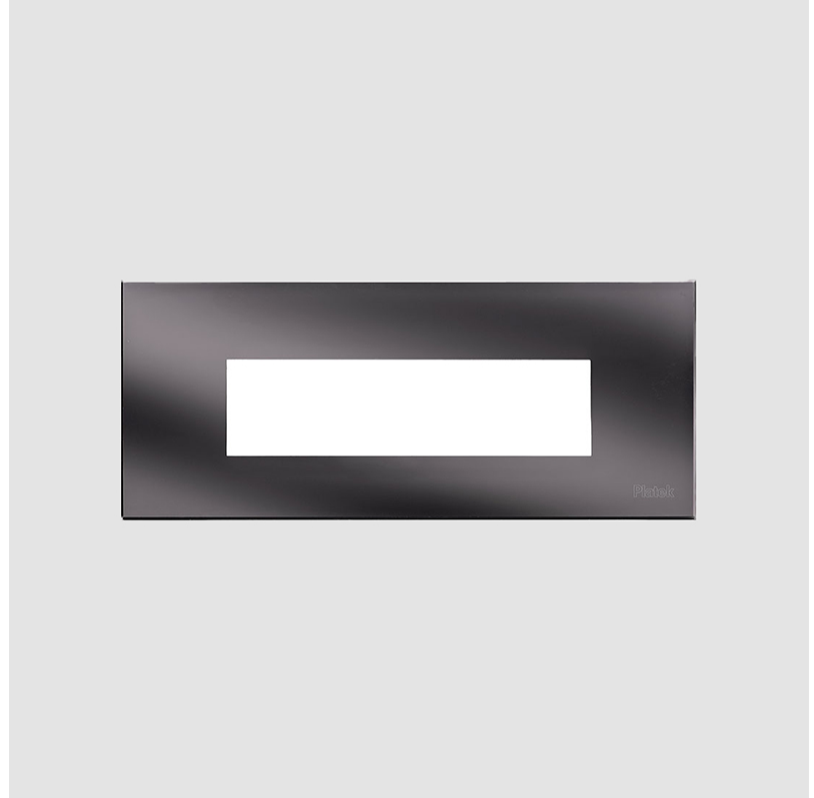
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 150
 Nominal Lumen (lm): 570
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Asymmetrical

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
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 IK Rating: IK05



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SPIARE RECESSED

E9R153-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 190
 Length (in): 7 1/2
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8
 Depth (in): 1 1/2
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ
 Fixture Material: Aluminum Die Cast
 Cut-out Measurements: 200 x 44.5mm

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

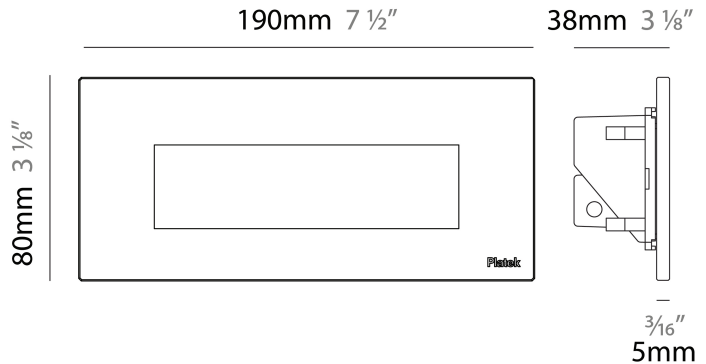
Number of LEDs: 1
 Color Temperature (°K): 3000
 Max. Delivered Lumen (lm): 150
 Nominal Lumen (lm): 550
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Asymmetrical

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



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E9R154- -
 base number Color Finish
 Temperature Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 190
 Length (in): 7 ½
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 ⅛
 Depth (in): 1 ½
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: [BLK / WHI / GRY / COR / ANT / BRZ](#)
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

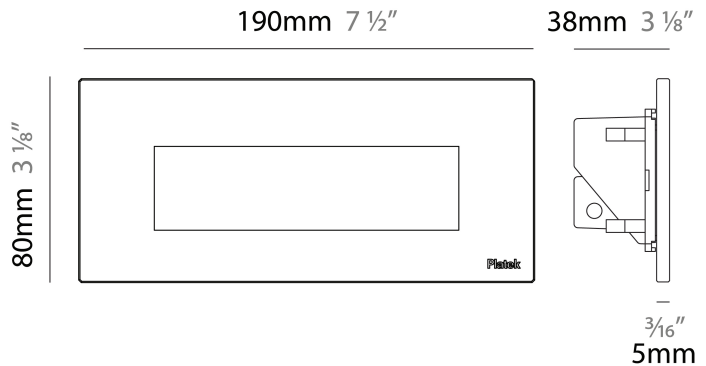
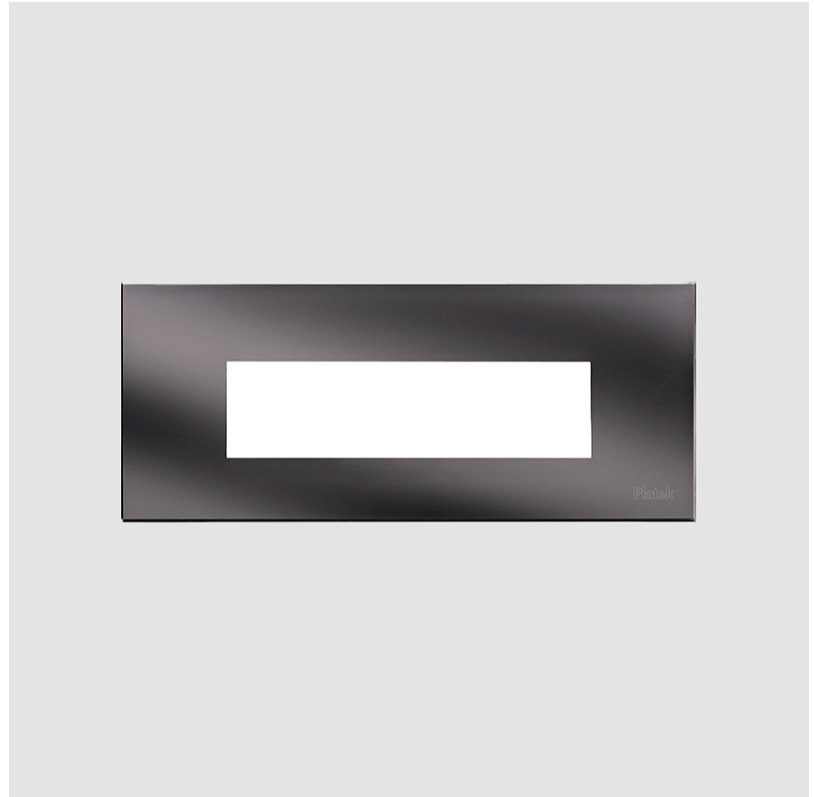
Number of LEDs: 1
 Color Temperature (°K): [2700 / 3000 / 4000](#)
 Max. Delivered Lumen (lm): 60
 Nominal Lumen (lm): 550
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



SPIARE RECESSED

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SPIARE RECESSED

E9R155-

base number Finish
Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Spiare
 Brand: Platek
 Division: Exterior
 Mounting Type: Recessed
 Mounting Location: Wall
 Subcategory: Pedestrian

PHYSICAL

Shape: Square
 Length (mm): 190
 Length (in): 7 1/2
 Height (mm): 80
 Depth (mm): 37.5
 Height (in): 3 1/8
 Depth (in): 1 1/2
 Light Distribution: Direct
 Diffuser: Clear tempered glass
 Fixture Finish: BLK / WHI / GRY / COR / ANT / BRZ
 Fixture Material: Aluminum Die Cast

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 8
 Dimming: Non-Dimmable
 Driver Included: No
 Driver Location: Remote
 Driver Type: Constant Voltage - 120 Vac
 Driver Class: Class 2
 Housing: ENCP4
 Input Voltage (V): 120
 Output Voltage (V): 24

LED

Number of LEDs: 1
 Color Temperature (°K): 3000
 Max. Delivered Lumen (lm): 60
 Nominal Lumen (lm): 550
 CRI: >80 CRI
 Lamp Life (hrs): 50000

OPTICAL

Beam Angle: Diffused

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP65
 IK Rating: IK05



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Fixture Finish

Black - BLK



White - WHI



Gray - GRY



Corten - COR



Anthracite - ANT



Bronze - BRZ



Digital: Not all screens are calibrated the same, and therefore, colors will appear differently between screens.

Physical: When texture is involved, there will be variations in color, character and tone within a product series and between product families.



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LEGEND

floor-mounted	pivotal	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
wall and ceiling: recessed and surface mounted	rotating	warm dim / natural dimming LED
ceiling-mounted and wall-mounted	illuminate tilted	rechargeable battery powered
wall-mounted	color of suspension cable	fixture with natural vivid LED (upon request)
omni-directional light distribution	length of suspension cable	color rendering index
direct light distribution	reflector degree selection	color temperature
direct/indirect light distribution	super spot	lumen (luminous flux)
indirect light distribution	lens	efficacy (lumens per watt)
asymmetric light distribution	lens pack	Unified Glare Rating (UGR) range from 5-40
aura light distribution	shine ring	marine grade (AISI 316 stainless steel)
round wall or ceiling cut-out	integrated shine ring with diffuser	walk on
square wall or ceiling cut-out	free individual colors 01-29	drive on
the supplied jig specifies the cutout dimensions	individual colors: 00 (free of charge), 01-25 (extra charge)	Dark Sky Compliance
minimum distance (meters) lamp - object	luminaire part to be colored (F1)	Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
recessed depth	luminaire part to be colored (F2)	lamp protected against explosion
ceiling thickness in mm	luminaire part to be colored (F3)	blown glass using traditional methods by master glass blower
ceiling thickness selection	luminaire part to be colored (F4)	acoustic material
dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)	luminaire part to be colored (F5)	protection class I, protection insulation
included or excluded LED driver/transformer/control gear	color of 3-circuit adaptor	protection class II, protection insulation
separately switchable	indirect diffuser	ETL Certified to UL and CSA Standards
sensor	direct diffuser	UL Certified to UL and CSA Standards
remote control	ball-proof (upon request)	CSA Certified to UL and CSA Standards
available upon request	accessory	Certified for North American Standards

IP RATING

IP20	protected against ingress of solid bodies greater than 12.5mm (finger)
IP33	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
IP40	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
IP43	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
IP44	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
IP54	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
IP65	protected against ingress of dust protected against jets of water
IP66	protected against ingress of dust protected against powerful jets of water or heavy seas
IP67	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
IP68	protected against ingress of dust protected against immersion of water under pressure for long periods

IK RATING

IK01	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
IK02	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
IK03	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
IK04	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
IK05	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
IK06	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
IK07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
IK08	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
IK09	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
IK10	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)