MICRO RECESSED

E9I141-

base number

Color Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro Brand: Platek Division: Exterior Mounting Type: Recessed Mounting Location: In-Ground

Subcategory: Drive Over **PHYSICAL** Shape: Round Diameter (mm): 95 Diameter (in): 3 1/4 Height (mm): 97 Height (in): 3 13/16 Light Distribution: Direct Weight (kg): 0.55 Weight (lbs): 1.2 Load Resistance (kg): 2000 Load Resistance (lbs): 4409 Installation Requirement: Installation in sleeve set in concrete with a 20

- 30cm / 8 - 12" gravel drain bed

Diffuser: Clear tempered glass

Fixture Finish: SST

Fixture Material: Aluminum Die Cast

Cable Details: Supplied with 1 power cable 1m in length

ELECTRICAL

Lamp Type: LED Input Wattage (W): 2.5 Total Output Wattage (W): 2 Driver Included: No Driver Location: Remote Driver Type: Constant Current - Universal Driver Class: Class 2 Housing: (Not included - see components) L9A09600 allows for external driver (non-dimming - 120 / 277Vac [-25

Input Voltage (V): 120 - 277 Constant Current (MA): 700

Upon Request: External w/L9A09600 ONLY: Non-dimming 120 / 277Vac min. operating temperature -25°C; if a lower operating temperature is required it must be REMOTE / (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: (- 40°C) 0-10Vdc dimming (120 / 277Vac) / (-25°C) Phase dimming

Number of LEDs: 1

Color Temperature (°K): 3000 / 4000 Max. Delivered Lumen (lm): 130 / 135 Nominal Lumen (lm): 250 / 260

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: Asymmetric Beam Angle: 62

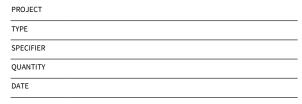
RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

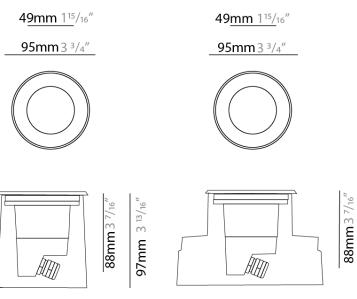
IP rating: IP68

IK Rating: IK10

ZaugeRationg: **6**0. **७3.6**24, T 1800-388-3382, F 416-247-9319, www.zaneen.com













E9I141-

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	





MICRO RECESSED

E9I157-

base number Color

Temperature Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro Brand: Platek Division: Exterior Mounting Type: Recessed Mounting Location: In-Ground Subcategory: Drive Over

PHYSICAL Shape: Round Diameter (mm): 95 Diameter (in): 3 3/4 Height (mm): 97 Height (in): 3 13/16 Light Distribution: Indirect Weight (kg): 0.55 Weight (lbs): 1.2 Load Resistance (kg): 2000 Load Resistance (lbs): 4409 Installation Requirement: Installation in sleeve set in concrete with a 20 - 30cm / 8 - 12" gravel drain bed

Cable Details: Supplied with 1 power cable 0.5m in length

Fixture Finish: SST

Diffuser: Clear tempered glass

Fixture Material: Aluminum Die Cast

ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 5 Dimming: Non-Dimming / Phase Dimming (120Vac only) / 0-10V Dimming

Driver Included: No Driver Location: Remote

Driver Type: Constant Current - 120/277Vac

Driver Class: Class 2

Input Voltage (V): 120 - 277 Constant Current (MA): 500

Upon Request: (Included) external w/L9A09600 only: Non-dimming 120 / 277Vac - min. operating temperature -25°C; if a lower operating temperature is required it must be REMOTE and is NOT included / (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: (-40°C) 0-10Vdc dimming (120 / 277Vac) / (-40°C) Phase dimming @120Vac only

LED

Number of LEDs: 3

Color Temperature (°K): 3000 / 4000 Max. Delivered Lumen (lm): 435 - 465 / 450 - 485

Nominal Lumen (lm): 570 / 600

Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 33 / 44

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards IP rating: IP68

IK Rating: IK10

Bug Rating: B0 U3 G0

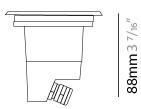
Linen Begwast: Higher Maximum Sen bient Zempre, atwiczaneen.com

PROJECT TYPE SPECIFIER QUANTITY DATE



Ø95mm 3 ³/₄"







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E9I157-







MICRO ROLL OVER RECESSED

E91560-

base number

Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro
Subseries: Micro Roll Over
Brand: Platek
Division: Exterior
Mounting Type: Recessed
Mounting Location: In-Ground
Subcategory: Marker

PHYSICAL

Shape: Round
Diameter (mm): 95
Diameter (in): 3 ¾
Height (mm): 114
Height (in): 4 ½
Light Distribution: Uplight
Weight (kg): 0.4
Weight (lbs): 0.88

Load Resistance (kg): 2000 Load Resistance (lbs): 4409

Installation Requirement: Installation in sleeve set in concrete with a 20 - 30cm / 8 - 12" gravel drain bed

Screws: No visible screws

Diffuser: Clear tempered glass

Fixture Finish: SST
Fixture Material: Stainless Steel AISI 316L

Cable Details: Supplied with 1 power cable 0.5m in length

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 2.9
Total Output Wattage (W): 1.5
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - Universal
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / Phase dimming

LED

Number of LEDs: 1

/ Non-dimming 120/277Vac

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 15 / 16

Nominal Lumen (lm): 190 / 200

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 1 Opening

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards IP rating: IP68

IK Rating: IK10
Bug Rating: B0 U1 G0

Marine Grade: Stainless Steel AISI 316L

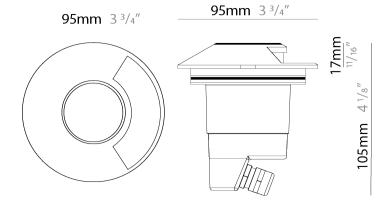
Upon Request: Higher Maximum Ambient Temperature

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In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at zaneen.com

Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.





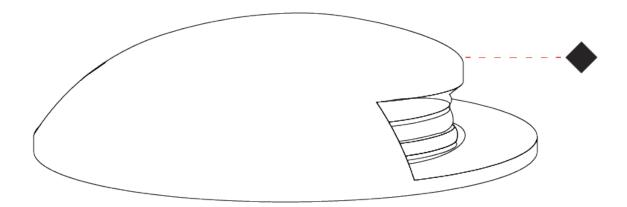




MICRO ROLL OVER RECESSED

E9I560-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	





MICRO ROLL OVER RECESSED

E9I561-

base number

Temperature

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro	
Subseries: Micro Roll Over	
Brand: Platek	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: In-Ground	
Subcategory: Marker	

PHYSICAL

Shape: Round
Diameter (mm): 95
Diameter (in): 3 ³ / ₄
Height (mm): 114
Height (in): 4 ½
Light Distribution: Uplight
Weight (kg): 0.4
Weight (lbs): 0.88
Load Resistance (kg): 2000
Load Resistance (lbs): 4409
Installation Pequirement: Installation in sleeve set in concrete with a 20

Installation Requirement: Installation in sleeve set in concrete with a 20 - 30cm / 8 - 12" gravel drain bed

Screws: No visible screws

Diffuser: Clear tempered glass

Fixture Finish: SST

Fixture Material: Stainless Steel AISI 316L

Cable Details: Supplied with 1 power cable 0.5m in length

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 2.9
Total Output Wattage (W): 1.5
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - Universal
Input Voltage (V): 120 - 277
Constant Current (MA): 350
Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / Phase dimming

LED

Number of LEDs: 1

/ Non-dimming 120/277Vac

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 35 / 37

Nominal Lumen (lm): 190 / 200

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 2 Openings

RATINGS AND CERTIFICATIONS

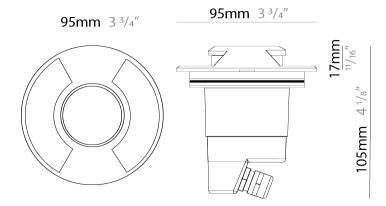
Certified By: Certified for North American Standards
IP rating: IP68
IK Rating: IK10
Bug Rating: B0 U1 G0

Marine Grade: Stainless Steel AISI 316L

Upon Request: Higher Maximum Ambient Temperature

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE







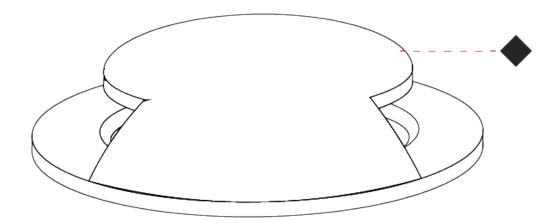
Page 7/20



MICRO ROLL OVER RECESSED

E9I561-

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		





MICRO RECESSED

E9I564-

base number

Temperature Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro Brand: Platek Division: Exterior Mounting Type: Recessed Mounting Location: In-Ground Subcategory: Drive Over

PHYSICAL

Shape: Round Diameter (mm): 95 Diameter (in): 3 3/4

Height (mm): 88

Height (in): 3 1/2

Light Distribution: Uplight Weight (kg): 0.5

Weight (lbs): 1.1

Load Resistance (kg): 2000

Load Resistance (lbs): 4409

Installation Requirement: Installation in sleeve set in concrete with a 20

- 30cm / 8 - 12" gravel drain bed

Screws: No visible screws Diffuser: Clear tempered glass

Fixture Finish: SST

Fixture Material: Stainless Steel AISI 316L

Cable Details: Supplied with 1 power cable 5m in length

Lamp Type: LED

Input Wattage (W): 5.9 / RGBW 6

Total Output Wattage (W): 5 / RGBW 6

Driver Included: No

Driver Location: Remote

Driver Type: White LED - Constant Voltage - 120 / 277Vac RGBW -

Constant Current - Universal

Housing: (Not included - see components) L9A09600 allows for external driver (non-dimming - 120 / 277Vac [-30

Input Voltage (V): 120 - 277

Output Voltage (V): 24

Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / Phase dimming / Non-dimming 120/277Vac / DMX

Number of LEDs: 3 / RGBW 4

Color Temperature (°K): 3000 / 4000 / RGBW

Max. Delivered Lumen (lm): 435 - 465 / 450 - 485

Nominal Lumen (lm): 570 / 600

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 33 / 44

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards IP rating: IP68

IK Rating: IK10

Bug Rating: B0 U3 G0

Marine Grade: Stainless Steel AISI 316L

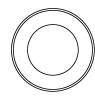
4966 Request: Pighter Maxhabharan Jan Bieth 44 mater at we zaneen.com

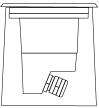
PROJECT TYPE SPECIFIER QUANTITY DATE



49mm 115/16"

95mm 3 3/4"

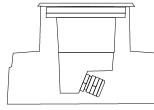












49mm 115/16"

95mm 3 3/4"







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97mm 3 ¹³/16

88mm 3 ^{7/16}



E9I564-





MICRO RECESSED

E91570-

base number

Temperature Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro	
Brand: Platek	
Division: Exterior	
Mounting Type: Recessed	
Mounting Location: In-Ground	
Subcategory: Drive Over	

PHYSICAL

Shape: Round	
Diameter (mm): 95	

Diameter (in): 3 1/4 Height (mm): 88

Height (in): 3 1/2

Light Distribution: Uplight

Weight (kg): 0.5 Weight (lbs): 1.1

Load Resistance (kg): 2000

Load Resistance (lbs): 4409

Installation Requirement: Installation in sleeve set in concrete with a 20 - 30cm / 8 - 12" gravel drain bed

Screws: No visible screws

Diffuser: Clear tempered glass

Fixture Finish: SST

Fixture Material: Stainless Steel AISI 316L

Cable Details: Supplied with 1 power cable 0.5m in length

ELECTRICAL

Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 5 Driver Included: No Driver Location: Remote Driver Type: Constant Voltage - Universal Driver Class: Class 2

Housing: (Not included - see components) L9A09600 allows for external driver (non-dimming - 120 / 277Vac - [-

Input Voltage (V): 120 - 277 Constant Current (MA): 500

Upon Request: (Included) Integral w/L9A09600 ONLY - Non-dimming 120 / 277Vac / (Not included - see components [IP65 or higher enclosure to be supplied by others]) Remote: 0-10Vdc dimming / Phase dimming @120Vac only

LED

Number of LEDs: 3

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 440 - 465 / 450 - 485

Nominal Lumen (lm): 570 / 600

CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Optic°: 12 / 33 / 44

RATINGS AND CERTIFICATIONS

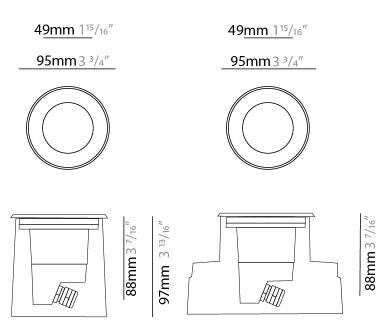
Certified By: Certified for North American Standards	
IP rating: IP68	
IK Rating: IK10	

Bug Rating: B0 U3 G0

PROJECT TYPE SPECIFIER QUANTITY DATE







Wide Housing

L9A09500



Slim Housing

L9A09500

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E9I570-





MICRO RECESSED

E91630-

base number

Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro Brand: Platek Division: Exterior Mounting Type: Recessed Mounting Location: In-Ground

Subcategory: Drive Over **PHYSICAL** Shape: Round Diameter (mm): 95 Diameter (in): 3 1/4 Height (mm): 97 Height (in): 3 13/16 Light Distribution: Direct Weight (kg): 0.55 Weight (lbs): 1.2 Load Resistance (kg): 2000 Load Resistance (lbs): 4409 Installation Requirement: Installation in sleeve set in concrete with a 20

- 30cm / 8 - 12" gravel drain bed Diffuser: Clear tempered glass

Fixture Finish: SST

Fixture Material: Aluminum Die Cast

Cable Details: Supplied with 1 power cable 1m in length

ELECTRICAL

Lamp Type: LED Input Wattage (W): 6 Total Output Wattage (W): 6 Dimming: Bluetooth technology or DMX Control Gear: DMX Driver Included: No Driver Location: Remote Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500

LED

Number of LEDs: 4 Color Temperature (°K): RGBW CRI: >80 CRI Lamp Life (hrs): 60000

OPTICAL

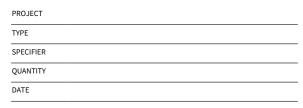
Optic°: 12 / 33 / 44

RATINGS AND CERTIFICATIONS

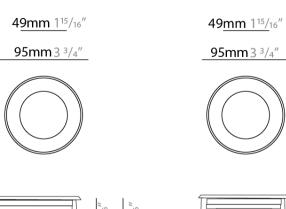
Special LEDs offerings: RGBW

Certified By: Certified for North American Standards IP rating: IP68 IK Rating: IK10 Bug Rating: B0 U5 G0

Upon Request: Higher Maximum Ambient Temperature

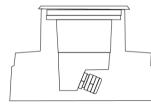








88mm 3 ⁷/16′ 97mm



88mm 3 ⁷/16

Slim Housing L9A09500

Wide Housing L9A09600



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E9I630-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	





MICRO RECESSED

E9Q042-

base number

Temperature Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Micro Brand: Platek Division: Exterior Mounting Type: Recessed Mounting Location: Ceiling

Subcategory: Downlight **PHYSICAL** Shape: Round Diameter (mm): 95 Diameter (in): 3 3/4 Height (mm): 88 Height (in): 3 1/2 Ceiling Thickness (mm): 10 - 20 Ceiling Thickness (in): 3/8 - 13/16 Light Distribution: Downlight Weight (kg): 0.55 Weight (lbs): 1.2 Load Resistance (kg): 2000 Load Resistance (lbs): 4409 Screws: No visible screws Diffuser: Clear tempered glass

Fixture Finish: SST

Fixture Material: Aluminum Die Cast

Cable Details: Supplied with power cable 2 x 1,00 mm2 in length

Cut-out Measurements: 80mm / 3 1/8" diameter

ELECTRICAL

Lamp Type: LED Input Wattage (W): 5.9 / 2 Total Output Wattage (W): 5 / 2 Driver Included: No Driver Location: Remote Driver Type: Constant Current - 120 / 277Vac Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): (5W) 350 / (2W) 700 Upon Request: (Not included - see components [IP65 or higher enclosure to be supplied by others]) 0-10Vdc dimming / Phase dimming

Number of LEDs: 3 / 1

/ Non-dimming 120/277Vac

Color Temperature (°K): 3000 / 4000

Max. Delivered Lumen (lm): 130 - 465 / 135 - 485

Nominal Lumen (lm): 570 / 600 CRI: >80 CRI

Lamp Life (hrs): 60000

OPTICAL

Opticº: 12 / 33 / 44 / ASY

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards

IP rating: IP68

IK Rating: IK10

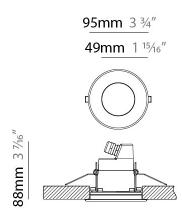
Bug Rating: B1 U0 G0

Upon Request: Higher Maximum Ambient Temperature

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PROJECT TYPE SPECIFIER QUANTITY DATE





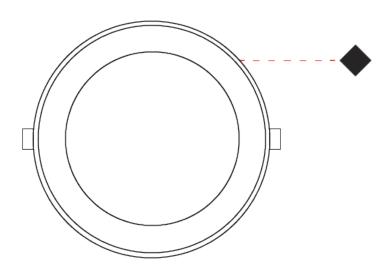


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E9Q042-





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MICRO RECESSED

E9Q108-

base number

Lens Options

 $1. To \ build\ a\ product\ code\ in\ our\ configurator\ select\ the\ specify\ button\ on\ the\ base\ model\ \#\ product\ page$

2. 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: Micro
Brand: Platek
Division: Exterior
Mounting Type: Recessed
Mounting Location: Ceiling
Subcategory: Downlight

Mounting Location: Ceiling
Subcategory: Downlight
PHYSICAL
Shape: Round
Diameter (mm): 95
Diameter (in): 3 ³ / ₄
Height (mm): 88
Height (in): 3 ½
Ceiling Thickness (mm): 10 - 20
Ceiling Thickness (in): 3/8 - 13/16
Light Distribution: Downlight
Weight (kg): 0.55
Weight (lbs): 1.2
Load Resistance (kg): 2000
Load Resistance (lbs): 4409
Screws: No visible screws
Diffuser: Clear tempered glass
Fixture Finish: SST
Fixture Material: Aluminum Die Cast
Cable Details: Supplied with power cable 2 x 1,00 mm2 in length
Cut-out Measurements: 80mm / 3 1/8" diameter

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 6
Total Output Wattage (W): 6
Dimming: Bluetooth technology or DMX
Control Gear: DMX
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - 120 / 277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 500

LED

Number of LEDs: 4	
Color Temperature (°K): RGBW	
CRI: >80 CRI	
Lamp Life (hrs): 60000	
Special LEDs offerings: RGBW	

OPTICAL

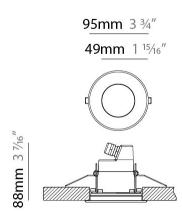
Optic°: 12 / 33 / 44

RATINGS AND CERTIFICATIONS

RATINGS AND CERTIFICATIONS	
Certified By: Certified for North American Standards	
IP rating: IP68	
IK Rating: IK10	
Bug Rating: B1 U0 G0	
Upon Request: Higher Maximum Ambient Temperature	

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			



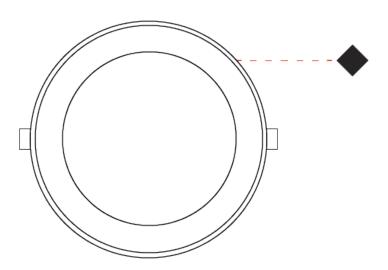






E9Q108-





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MICRO

PROJECT	
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SPECIFIER	
QUANTITY	
DATE	

Fixture Finish

Stainless Steel Inox - SST



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.





MICRO

LEGEND

L t I	wa w		8 N.S		special LED (upon request) PGR_PGRW_tunable
<u></u>	floor-mounted	Á	pivotable	⊛	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
7	wall and ceiling: recessed and surface mounted	S	rotating	0	warm dim / natural dimming LED
\uparrow	ceiling-mounted and wall-mounted	Œ	illuminate tilted	0	rechargeable battery powered
\rightarrow	wall-mounted	I	color of suspension cable	THESE	fixture with natural vivid LED (upon request)
Y	omni-directional light distribution		length of suspension cable	CRI	color rendering index
	direct light distribution		reflector degree selection	(K)	color temperature
	direct/indirect light distribution	s s	super spot	LM	lumen (luminous flux)
Y	indirect light distribution	☀	lens	₩)	efficacy (lumens per watt)
	asymmetric light distribution	8	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
	aura light distribution	0	shine ring	*	marine grade (AISI 316 stainless steel)
R	round wall or ceiling cut-out	0	integrated shine ring with diffuser	3	walk on
Z)	square wall or ceiling cut-out	Ġ	free individual colors 01-29	②	drive on
4	the supplied jig specifies the cutout dimensions	Ċ	individual colors: 00 (free of charge), 01-25 (extra charge)	DSC	Dark Sky Compliance
□ +,+	minimum distance (meters) lamp - object	♦	luminaire part to be colored (F1)	Ġ	Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
$\hat{\perp}$	recessed depth		luminaire part to be colored (F2)		lamp protected against explosion
1	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
1	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
<u>جه</u>	included or excluded LED driver/transformer/ control gear	•	color of 3-circuit adaptor		protection class II, protection insulation
8	separately switchable	\odot	indirect diffuser	. (II)	ETL Certified to UL and CSA Standards
9	sensor	0	direct diffuser	։ (Մ) «s	UL Certified to UL and CSA Standards
	remote control	\oplus	ball-proof (upon request)	(1)	CSA Certified to UL and CSA Standards
J	available upon request	0	accessory	(Z)	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

above the surface)

IK02	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)
1K06	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)

protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)

protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm

protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm