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Project Name:

Location:

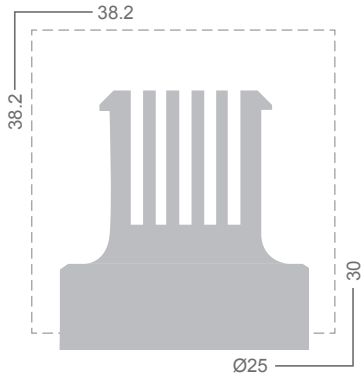
Specifier:

Rep Agency:

Fixture Type:

Product Code:

KLIK LEDpod™ 40SQ Patented



Description

Discrete, seamless point source LED fixture for use in all code-compliant handrail, especially curving ramps and helical stairs as well as long runs on bridges and pedestrian paths. Asymmetric optic allows mounting at rail nadir, eliminating uncomfortable glare issues.

Housing

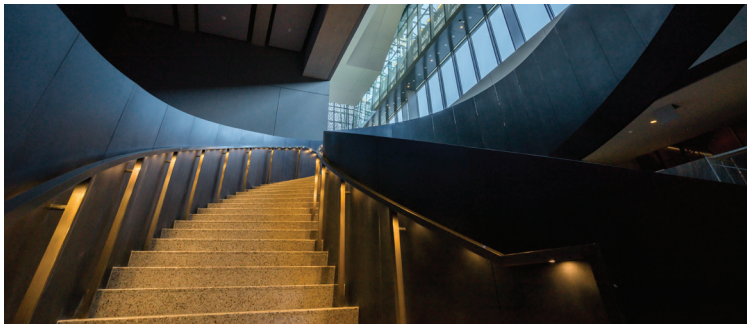
Clear anodized aluminum body as standard. Color-match anodized or bronze body as options, consult factory.

Aluminum body has a fine 25-micron finish and is then hard-coat anodized, thus preventing galvanic corrosion. Silicone gasket seals the installation from water ingress and provides added means of electrical isolation to minimize potential for galvanic reaction.

Mounting

Patented attachment method offers unparalleled security and ease of mounting. Requires only a simple drilled hole in railing material, eliminates threading, gluing or exposed fasteners common among other handrail fixtures. All conductors remain internal to railing to provide secure and safe wiring. Tamperproof option available for extreme environments; consult factory.

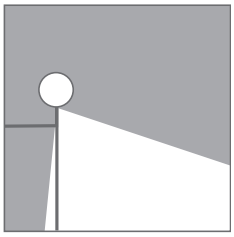
- Tube Size: SHS 1.5”, Max Wall 0.125”
- Cut Out: 25mm
- Weight: 0.16 LBS



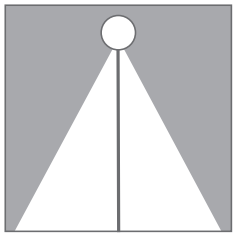
Monumental Staircase - National Museum of African American History & Culture, Photo: Jason A. Flakes/Nomoi Design

Electrical/LED Driver

- Input Voltage: 24 VDC
- Operating Temp: -40 to 120° F
- Efficiency: 88 lm/W
- Driver: Must use class 2 driver
  - Primary Driver: 110 - 277 VAC UL Listed Constant Voltage
  - Secondary Driver: 350 - 500mA Constant Current (provided with fixture)
- Control: DALI, 0-10V, DMX
  - DMX control for dimming only, not for individually addressed LEDpod
- Enclosure: Minimum NEMA 3R required
- Wire connectors provided; factory pre-wire available, consult factory



Asymmetric



Symmetric

Listings

- ETL listed, UL 1598/CSA 22.2; CE
- cETL
- IP65 rated *All IP rated luminaires tested to AS60529-2004 Degrees of protection provided by enclosures (IP Code)*
- IK08 Impact Resistance
- Wet location rated

Product Codes

Follow the steps to specify your fixture. Enter Product Code in field at top of page. Example: **LPSQ27KA12DIM**

Fixture Type	Rail Size[1]	Color[2]	Distribution	Rail Wall Thickness	Dimming[3]	Lens Option
LP LEDpod	**SQ** 1.50” x 1.50”	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **AMB** Amber	**A** Asymmetric **S** Symmetric	**12** .120” Wall	**DIM** Dimmable *Note: 1.5 Watt is non-dimmable*	Clear lens standard Add **FRS** for frosted diffused lens Add **OTK** for Optek-film diffused lens

1. Bronze material requires a special clip, contact factory for more information.
2. Also available in blue (BLU), green (GRN), red (RED), and custom color temperature (as special order).
3. *Additional charges and lead time apply for this feature.*
5. Tamper proof option offers additional protection in extreme environments. *Additional charges and lead time apply for this feature.* To specify; add “TP” to product code.
6. To Specify 1.5 Watt; add “0350” to product code.

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LED Performance

LED:	Cree XT-E
CCT:	2700, 3000, 4000 *(others available)*
CRI:	80-85
Life:	80% at 50k hrs and 85° C
Binning:	3 MacAdam Steps
Warranty:	5 Year Warranty

Lumens/Fixture or Pod

STANDARD
2W/POD Transparent

3000K	145
4000K	154
5000K	176

SPECIAL ORDER
1.5W/POD Transparent*

3000K	107
4000K	114
5000K	130

**Contact factory for 1.5W POD*

Optics				Reflector	
Beam Angle				Symmetrical	Asymmetrical
LOR defined by optics				76	74
lm	**W**	**mA**	**V**	**System Lumens @4000K**	
120	1.4	350	3	92	89
162	1.9	500	3	124	120

Remote Mounting Distance Chart

24 VDC 100W Driver	***Approximate Distance From Driver to First LED at 37 Fixtures***			
Wire Size	10 AWG	12 AWG	14 AWG	16 AWG
Distance	525’	328’	213’	131’

Calculations based on 2’ centers between pods.
Increased spacing reduces number of pods per circuit.

Primary Driver	***Secondary LED Driver***	***Spacing***	***Maximum KLIK LEDpods™ ****
110 - 277 Primary Voltage Remotely Mounted Dimming Control 10” x 1.5” x 2”	500mA	24”	37
	350mA	24”	50

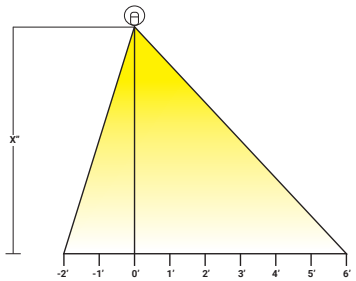
*Based on 16 AWG between LEDpods

Accessories

LP100WPRITRNOND	Class 2 Driver, Non-Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty *Used for non-dimming KLIK LEDpods*
LP100WPRITRNDIM	Class 2 Driver, Dimming, Input voltage = 120-277 VAC, Output voltage = 24 VDC, 5 year warranty *Used for dimming KLIK LEDpods*
LPNEMA3RENCL	NEMA 3R Drip Proof Enclosure, 4” x 4” x 18” (IP32 Equivalent)
LPNEMA4ENCL	NEMA 4 Watertight Enclosure, 14” x 8” x 6” (IP66 Equivalent)
LPNEMA6PENCL	NEMA 6P Submersible Enclosure 15” x 8” x 6” (IP67 Equivalent)

Additional driver & enclosure configurations available

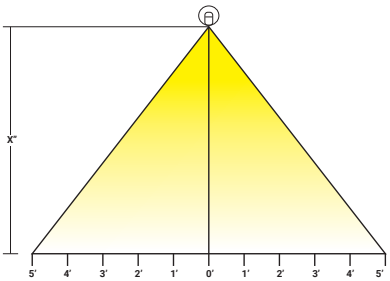
KLIK LEDpod™ Footcandle Chart



Asymmetric

X = Rail Height (34” Tall Handrail or 42” Tall Guardrail

Optic Height: 34” - 1.57” (Handrail Diameter) = 32.43” (2.7’)
42” - 1.57” (Handrail Diameter) = 40.43” (3.37’)



Symmetric

			2’	1’	0	1’	2’	3’	4’	5’	6’	7’
1.5 Watt	**KLIK LEDpod™ 40SQ 350mA Asymmetric**	34” Tall Handrail	0.39	0.96	4.09	5.09	3.63	2.64	1.27	0.58	0.24	0.08
		42” Tall Handrail	0.36	0.86	2.63	3.29	2.73	2.03	1.47	0.81	0.43	0.22
	KLIK LEDpod™ 40SQ 350mA Symmetric	34” Tall Handrail	2.74	5.22	6.00	5.22	2.74	0.91	0.15	0.05	0.02	0.01
		42” Tall Handrail	2.16	3.62	3.85	3.62	2.16	1.35	0.38	0.10	0.04	0.02
2 Watt	**KLIK LEDpod™ 40SQ 500mA Asymmetric**	34” Tall Handrail	0.53	1.29	5.53	6.87	4.90	3.57	1.72	0.78	0.33	0.11
		42” Tall Handrail	0.48	1.17	3.55	4.44	3.68	2.75	1.98	1.10	0.58	0.30
	KLIK LEDpod™ 40SQ 500mA Symmetric	34” Tall Handrail	3.70	7.05	8.11	7.05	3.70	1.23	0.20	0.07	0.03	0.01
		42” Tall Handrail	2.92	4.90	5.20	4.90	2.92	1.83	0.52	0.13	0.05	0.02

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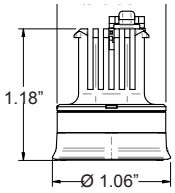
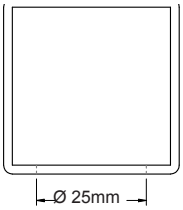
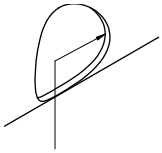
Installation Instructions *Additional instructions may apply, consult factory.*

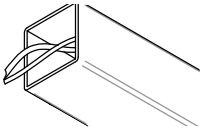




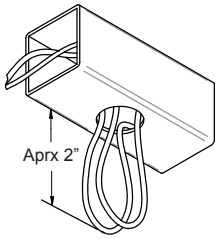
Use a 25mm annular cutter to bore hole. (Use 1" in aluminum.)



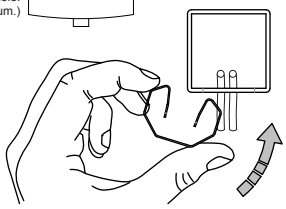
1 Make sure drilled holes are deburred and excess swarf is removed from railing.



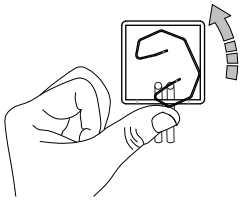
2 Feed through appropriate wires (14ga - 18ga).



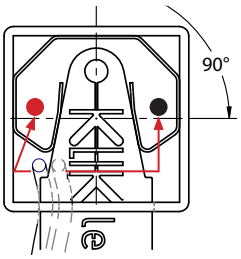
3 Pull a loop of wire through hole.



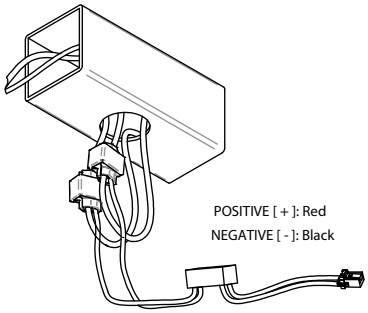
4 Rotate retaining clips in as shown.



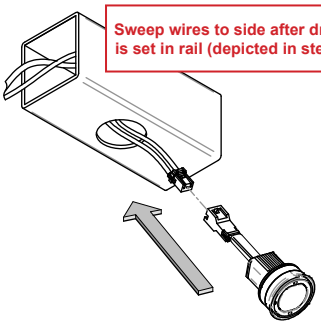
5 Apply pressure as shown to deform clip into place in a circular motion.



6 Fit clip into place until the clamping ends are equally centered over the hole. Use tool to center clip until equal pressure can be felt and inspect by eye.



7 Install Scotchlok connectors to the red and black wires. Connect the corresponding color wires of the driver to the scotchloks and assure the clip is secured. Max wire insulation 3.5mm OD.



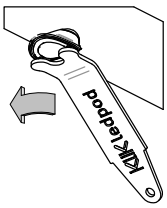
8 CAREFULLY feed the Scotchloks to the left of the clip and the driver to the right with the driver connector hanging out. Ensure wires are clear from where the LEDPOD is to fit.

Proceed to connect the LEDPOD

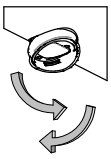
LEDPOD Removal Steps

1 Insert removal tool into the 2mm holes in the LEDPOD

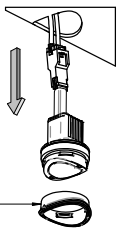
With firm pressure, rotate the LEDPod 90°



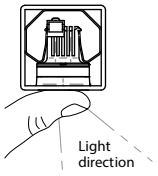
2 Carefully peel back the IP silicone seal one side at a time.

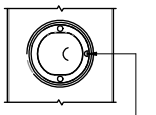


3 Carefully remove the LEDPOD from the clip, ensuring not to damage or disconnect wires in the process.



Be sure to re-attach the silicone seal ready for reinsertion.





The notch indicates the direction of the light, Asymmetrical LEDPods

9 Push LEDPOD in until it snaps into place and the outer surface is flush with the outer surface of the tube.

Prod the rim of the clear silicone IP Seal to provide a tighter fit.

35483-A.1

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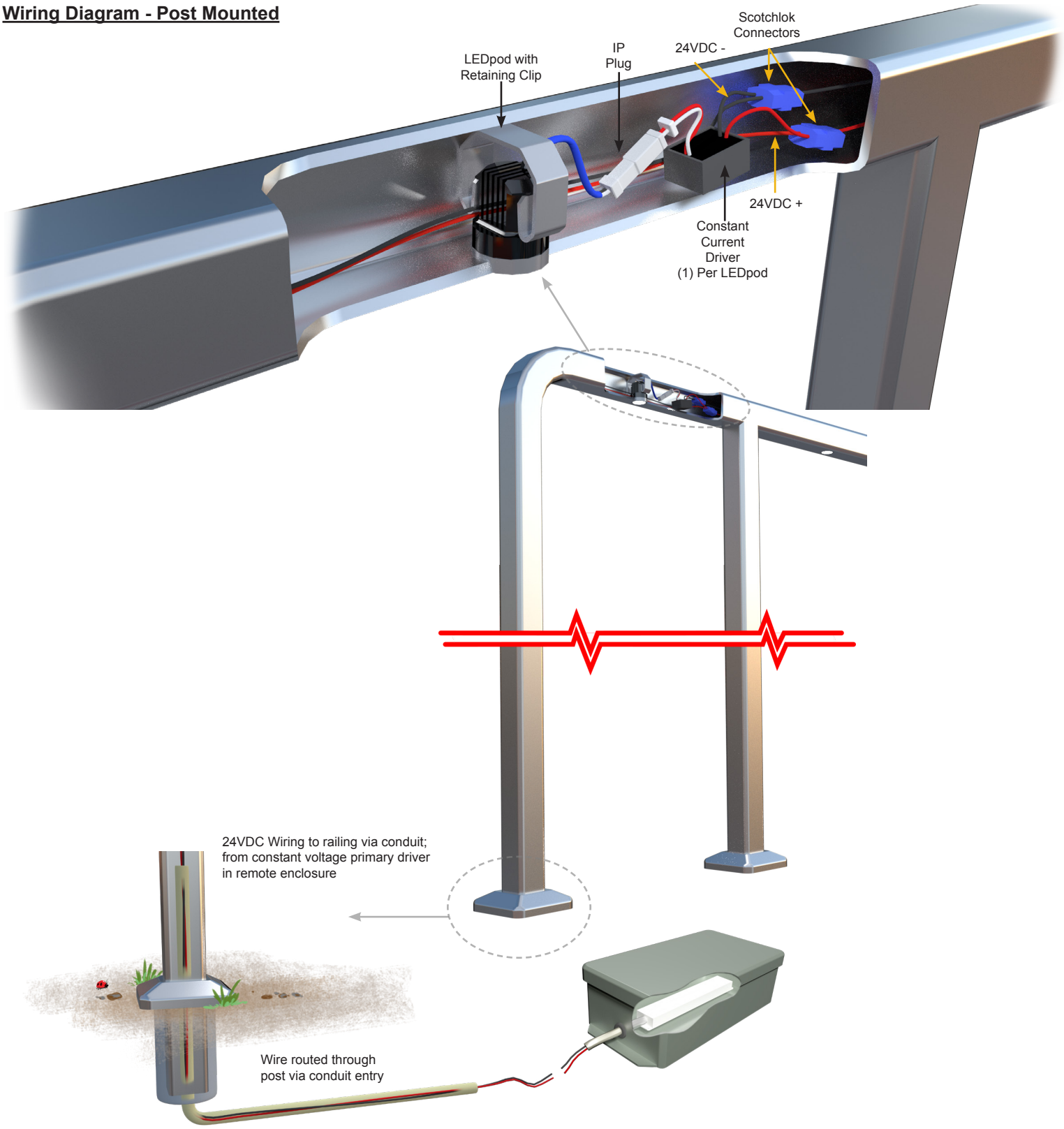
Wiring Diagram - Post Mounted



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Wiring Diagram - Wall Mounted