

Project Name: _____

Location: _____

Specifier: _____

Rep Agency: _____

Fixture Type: _____

Product Code: _____

KLIK LEDpod™ 50 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. Typical spacing between LEDpods on stairs is 24", and on level runs is 48".

HOUSING

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.

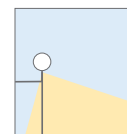
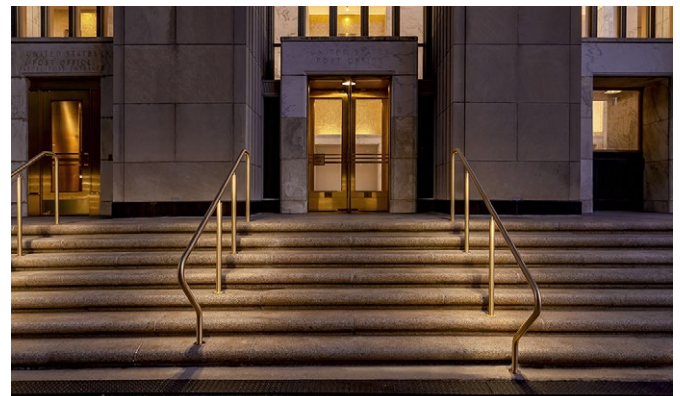
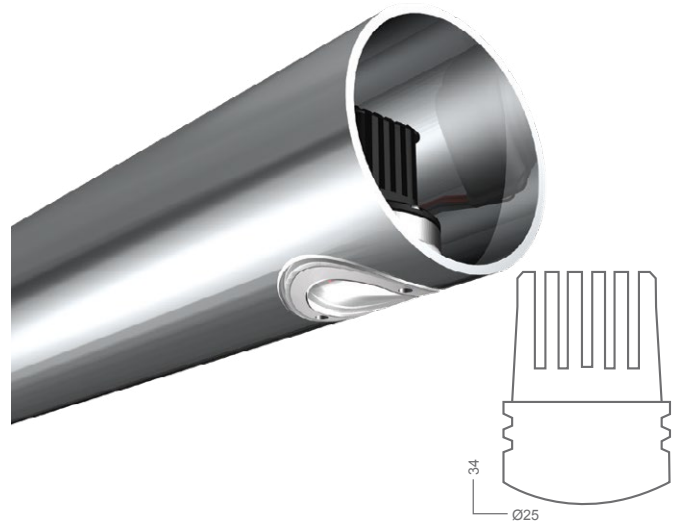
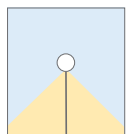
MOUNTING

Patented attachment method offers unparalleled security and ease of mounting. Requires only a simple drilled hole in railing material. All conductors remain internal to railing to provide secure and safe wiring. IK10 Impact rating ensures vandal resistance.

- Tube Size: Ø 1.75" - 2.00", Max. wall .22"
Other sizes available upon request.
- Cut Out: 25mm
 - Must use a 25mm annular cutter [NOT a 1" cutter].

ELECTRICAL/LED DRIVER

- Input Voltage: 24 VDC
- Driver: Must use class 2 driver
 - Primary Driver: 110 - 277 VAC UL Listed Constant Voltage
 - Secondary Driver: 350 - 700mA Constant Current (provided with fixture)
- Control: 0-10V, DALI, DMX
 - DMX control for dimming only, not for individually addressed LEDpod
- Enclosure: Minimum NEMA2 for indoor, NEMA 3R for outdoor
- Wire connectors provided; factory pre-wire available, consult factory


Asymmetrical
65° beam

Symmetrical
90° beam

ETL listed
UL 1598/CSA 22.2; CE

LED Operating Temp:
-40°F - 160°F

Weatherproof Rating:
IP66
Wet location rated

3G Vibration
per MIL-STD-810G

Impact resistance:
IK10

Wildlife friendly

International Dark Sky Association Certified Amber ≤ 3000K

* All IP rated luminaires tested to AS60529-2004 Degrees of protection provided by enclosures (IP Code)



2840 N Brookfield Rd, Suite 3
Brookfield, WI 53045

PH: 262.505.5124
sales@klikusa.com

www.klikusa.com

KLIK LEDpod™ 50 Patented

SPECIFICATION TABLE

Follow the steps to specify your fixture. Enter Product Code in field at top of page. Example: LP5030KA

Fixture Type	Color Temp [K]	Distribution	Rail Wall Thickness ^{1,2}	Lens Options	Security	Output (W)	Anodized Bezel Options	Control
LP50	22K 2200K	A Asymmetric	05 1 1/2 SC5 Pipe	- Clear lens [Std]	- Tamper resistant [Std]	- 500mA 2W [Std]	- Marine grade anodized [Std]	- 0-10V Dim
	27K 2700K	S Symmetric	10 1 1/2 SC10 Pipe	FR Opaque frost	TP Tamperproof	350 350mA 1.5W	BRS Antique Brass	DMX1 DMX 1 Ch
	30K 3000K		40 1 1/2 SC40 Pipe	OT Optical filter	[Requires the KLIK tool]	700 700mA 2.7W	BLK Black Anodized	PH [Phase dim]
	35K 3500K		80 1 1/2 SC80 Pipe				BZ Bronze	
	40K 4000K		2012 2.0"x11ga Tube [.12 Wall]				ANT Dark Antique	
	AMB FWC Amber		CUST Non-stock				GLD Rose Gold	
	PCA Phos-converted Amber							
	R Red							
	G Green							
	B Blue							

¹Other sizes available for 2" tube

²Clips for Bronze railing requires a special alloy | consult factory

LED PERFORMANCE		Outputs based on 3000K			SYMMETRICAL	ASYMMETRICAL
LED:	Cree XT-E	W	mA	V	Delivered Lumens	
CCT:	2700, 3000, 4000 (others available)	1.4	350	3	116	86
CRI:	80-85	1.9	500	3	166	130
Life:	80% at 50k hrs and 85°C	2.7	700	3	215	170
Binning:	3 MacAdam Steps					
Warranty:	5 Year Warranty					

REMOTE MOUNTING DISTANCE CHART				
24 VDC 100W Driver	Approx. distance from driver to first LED at 32 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			
110 - 277 Primary Voltage Remotely Mounted Dimming Control 10" x 1.5" x 2"	Secondary LED Driver	Spacing	Maximum KLIK LEDpods™*
	700mA	24"	30
	500mA	24"	37
	350mA	24"	50

*Based on 16 AWG between LEDpods

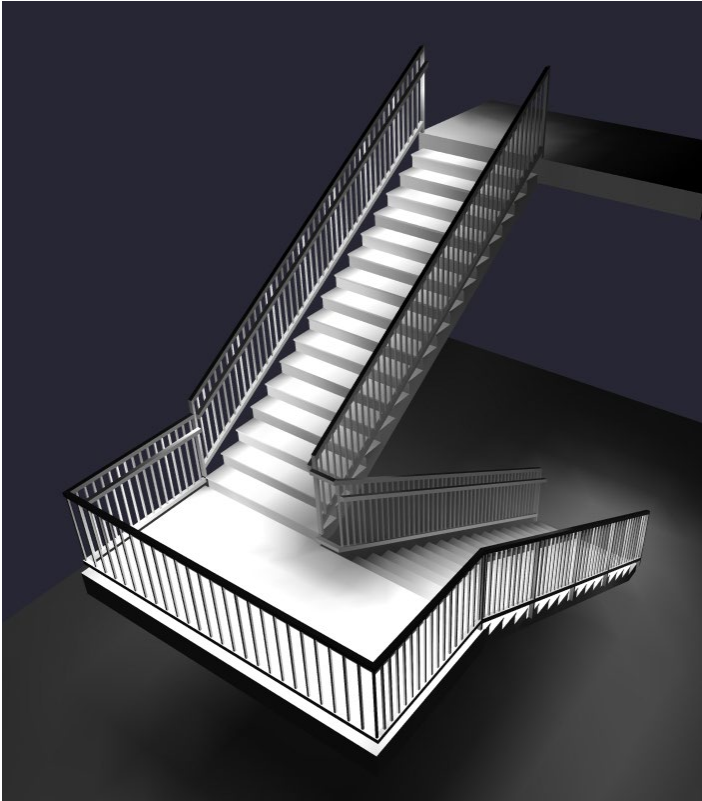
REMOTE POWER SUPPLIES [PSUs]	
LP096WDIMIP67	U.S. MADE; Class 2, 100W; 0-10 Dim Constant Voltage Remote PSU [IP67 (Temp Submersion) Rated; -40°C ~ +80°C]
LP096WPRITRNDIM	Class 2, 96W, 0-10 Dim Constant Voltage Remote PSU [IP67 (Temp Submersion) Rated; -40°C ~ +80°C]
LP100WPRITRNDIM	Class 2, 96W, 0-10 Dim Constant Voltage Remote PSU [IP64 (Damp Location) Rated; -25°C ~ +40°C]
LPQZ96WUNV24VPH010	Class 2, 96W, Phase or 0-10 Dim Constant Voltage Remote PSU [IP66 (Wet Location) Rated; -40°C ~ +60°C]
LPQZ96WUNV24VDMX1CH	Class 2, 96W, 8-Bit DMX Dim Constant Voltage Remote PSU [IP66 (Wet Location) Rated; -40°C ~ +60°C]

REMOTE NEMA ENCLOSURES	
LPNEMA2ENCL	NEMA2 INDOOR enclosure for LP100WPRITRNDIM, 12 x 3.3 x 2
LPNEMA3RENCLJR	NEMA3R Drip Proof Enclosure, 4 x 4 x 12 [IP24 Equivalent]
LPNEMA4XTROSS	U.S. MADE NEMA4 304 Lockable Stainless Steel Watertight Enclosure 4 x 4 x 12 [IP66 Equivalent]; NEMA4X
LPNEMA4ENCLJR	NEMA4 Watertight Enclosure, 6 x 4 x 12 [IP66 Equivalent]; NEMA4X
LPNEMA4XENCSS	U.S. MADE NEMA4 304 Lockable Stainless Steel Watertight Enclosure 6 x 4 x 12 [IP66 Equivalent] NEMA4X
LPNEMA6PTRO	NEMA6 Watertight Enclosure Wiring Trough, 2 x 3 x 14 [IP68 Equivalent]

Additional driver & enclosure configurations available, including IP68 options

Please note the KLIK UL Listing requires purchase of a remote driver and enclosure.

KLIK LEDpod™ 50 Patented SINGLE SIDED

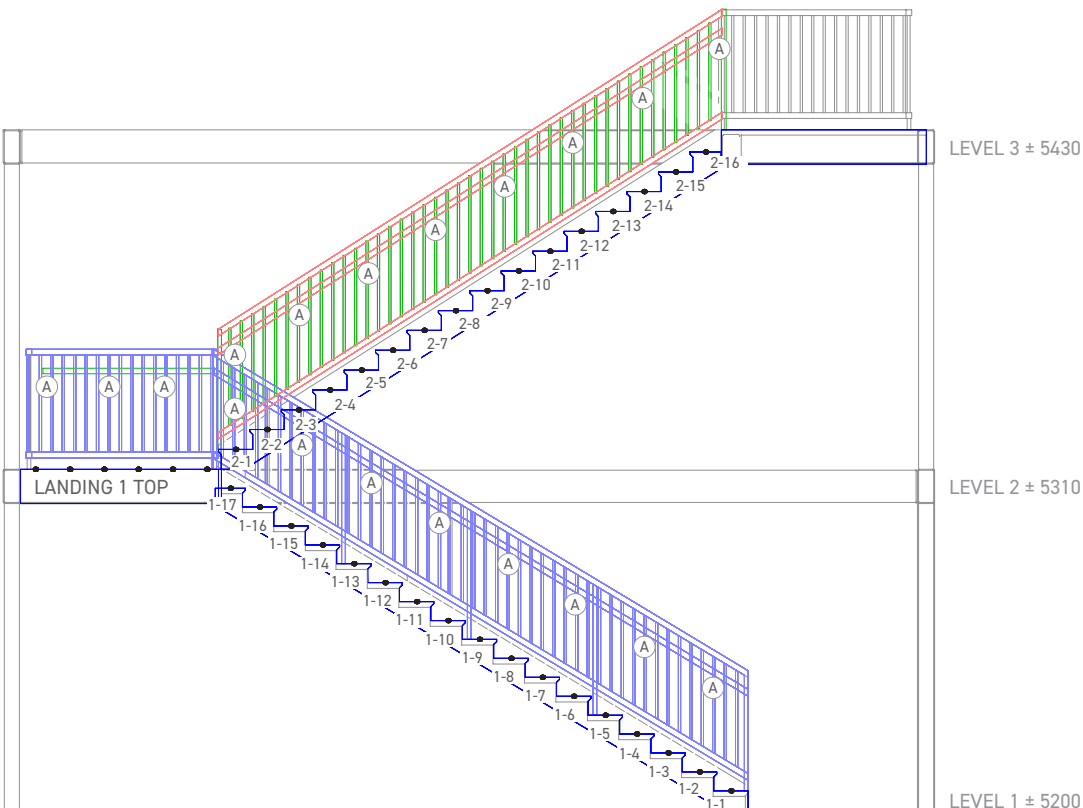


QTY	LABEL	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
26	A	Single	130	0.900	LPOD50-3K-500mA-2.0W-Asym Clear Lens

Landing readings taken on landing. Stair readings taken on stair. (Design based on 2' centers.)

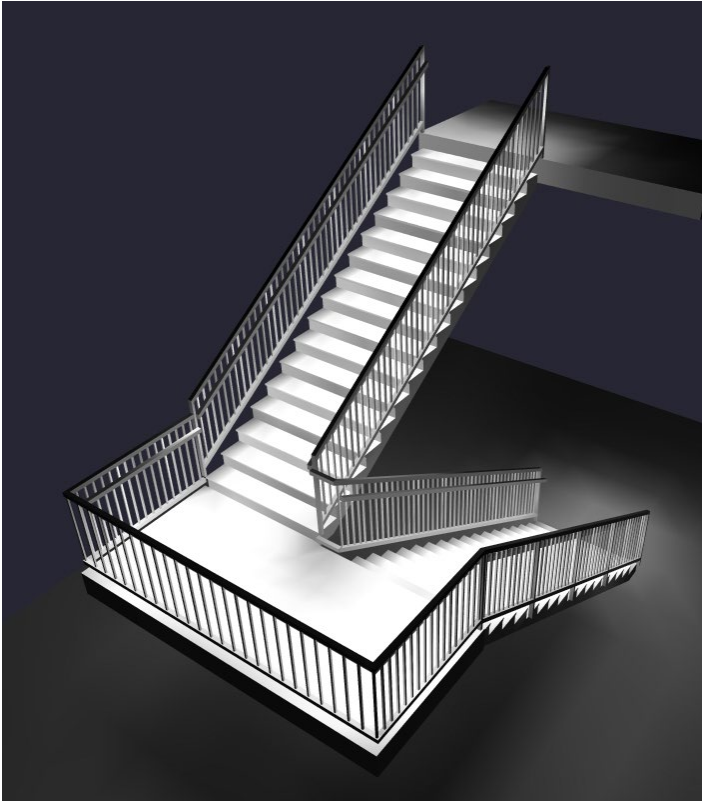
LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
Landing	Fc	13.73	22.2	3.0	4.58	7.40

STAIRS	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
1-1	Fc	3.99	5.9	0.9	4.43	6.56
1-10	Fc	6.83	12.0	0.9	7.59	13.33
1-11	Fc	6.68	11.3	0.9	7.42	12.56
1-12	Fc	6.86	12.1	0.9	7.62	13.44
1-13	Fc	6.50	11.1	0.8	8.13	13.88
1-14	Fc	6.84	12.1	0.8	8.55	15.13
1-15	Fc	6.43	11.2	0.8	8.04	14.00
1-16	Fc	6.88	12.4	0.6	11.47	20.67
1-17	Fc	6.14	10.9	0.6	10.23	18.17
1-2	Fc	6.11	9.9	0.9	6.79	11.00
1-3	Fc	7.00	12.2	0.9	7.78	13.56
1-4	Fc	6.64	11.4	1.0	6.64	11.40
1-5	Fc	7.04	12.2	0.9	7.82	13.56
1-6	Fc	6.73	11.6	1.0	6.73	11.60
1-7	Fc	6.96	11.9	0.9	7.73	13.22
1-8	Fc	6.80	11.9	0.9	7.56	13.22
1-9	Fc	6.86	11.7	0.9	7.62	13.00
2-1	Fc	8.36	14.5	2.1	3.98	6.90
2-10	Fc	7.33	12.6	1.9	3.86	6.63
2-11	Fc	7.60	13.5	1.7	4.47	7.94
2-12	Fc	7.28	12.7	2.0	3.64	6.35
2-13	Fc	7.74	13.5	1.7	4.55	7.94
2-14	Fc	7.00	13.0	1.5	4.67	8.67
2-15	Fc	6.56	11.8	1.1	5.96	10.73
2-16	Fc	5.65	11.2	0.7	8.07	16.00
2-2	Fc	8.10	14.3	1.9	4.26	7.53
2-3	Fc	7.05	13.1	1.5	4.70	8.73
2-4	Fc	7.85	13.6	1.8	4.36	7.56
2-5	Fc	7.25	13.4	1.6	4.53	8.38
2-6	Fc	7.66	12.9	1.8	4.26	7.17
2-7	Fc	7.45	13.5	1.6	4.66	8.44
2-8	Fc	7.46	12.6	1.8	4.14	7.00
2-9	Fc	7.56	13.7	1.6	4.73	8.56



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KLIK LEDpod™ 50 Patented DOUBLE SIDED

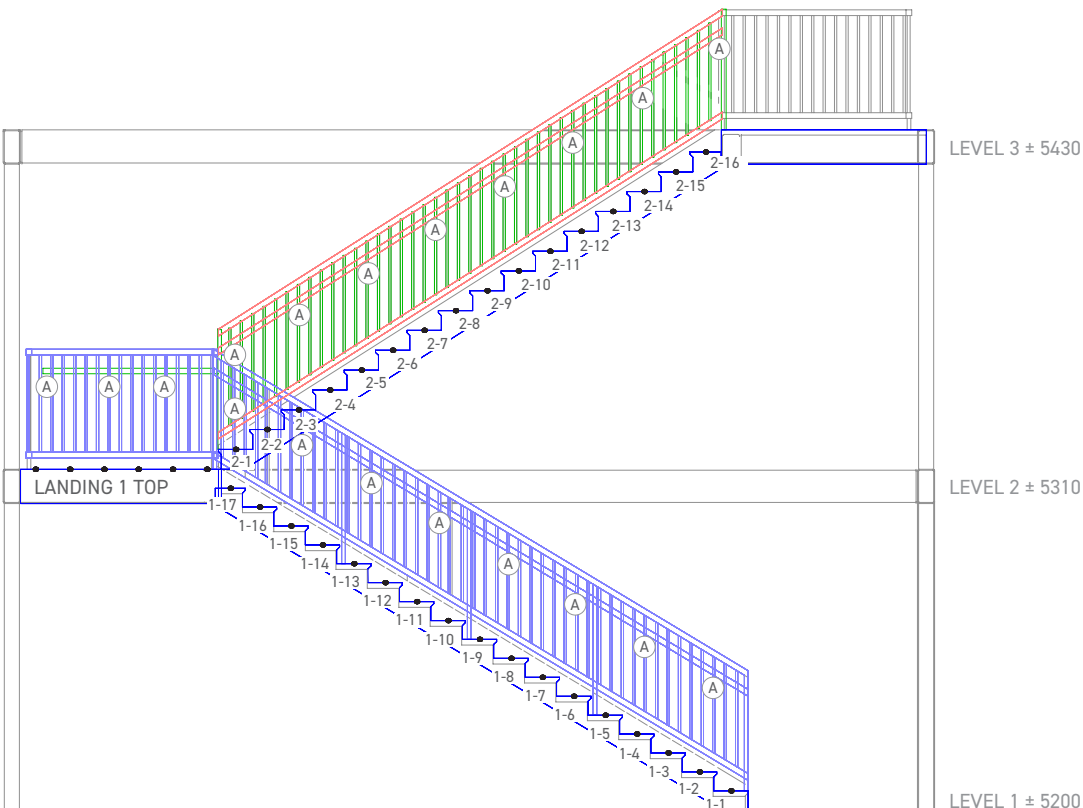


QTY	LABEL	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
42	A	Single	130	0.900	LPD50-3K-500mA-2.0W-Asym Clear Lens

Landing readings taken on landing. Stair readings taken on stair. (Design based on 2' centers.)

LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
Landing	Fc	15.37	23.9	6.6	2.33	3.62

STAIRS	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
1-1	Fc	7.88	9.6	3.5	2.25	2.74
1-10	Fc	13.25	15.7	6.1	2.17	2.57
1-11	Fc	13.11	15.3	6.2	2.11	2.47
1-12	Fc	13.35	15.7	6.2	2.15	2.53
1-13	Fc	12.69	14.6	6.0	2.12	2.43
1-14	Fc	13.20	15.3	6.4	2.06	2.39
1-15	Fc	12.20	14.0	5.9	2.07	2.37
1-16	Fc	12.61	14.7	6.0	2.10	2.45
1-17	Fc	10.50	12.3	5.0	2.10	2.46
1-2	Fc	11.95	13.9	5.6	2.13	2.48
1-3	Fc	13.63	15.8	6.3	2.16	2.51
1-4	Fc	12.95	15.0	6.2	2.09	2.42
1-5	Fc	13.75	15.9	6.4	2.15	2.48
1-6	Fc	13.18	15.3	6.3	2.09	2.43
1-7	Fc	13.74	15.9	6.8	2.02	2.34
1-8	Fc	13.16	15.5	6.0	2.19	2.58
1-9	Fc	13.45	15.6	6.6	2.04	2.36
2-1	Fc	14.94	17.7	10.8	1.38	1.64
2-10	Fc	14.39	15.6	11.7	1.23	1.33
2-11	Fc	15.03	16.0	12.6	1.19	1.27
2-12	Fc	14.31	15.8	11.8	1.21	1.34
2-13	Fc	15.38	16.3	12.8	1.20	1.27
2-14	Fc	13.70	15.3	11.3	1.21	1.35
2-15	Fc	13.03	13.8	11.0	1.18	1.25
2-16	Fc	11.06	12.5	9.4	1.18	1.33
2-2	Fc	15.96	17.0	13.5	1.18	1.26
2-3	Fc	13.85	15.6	11.2	1.24	1.39
2-4	Fc	15.59	16.6	13.1	1.19	1.27
2-5	Fc	14.33	15.9	11.7	1.22	1.36
2-6	Fc	15.21	16.3	12.6	1.21	1.29
2-7	Fc	14.74	16.0	12.2	1.21	1.31
2-8	Fc	14.74	15.9	12.1	1.22	1.31
2-9	Fc	14.94	16.1	12.6	1.19	1.28

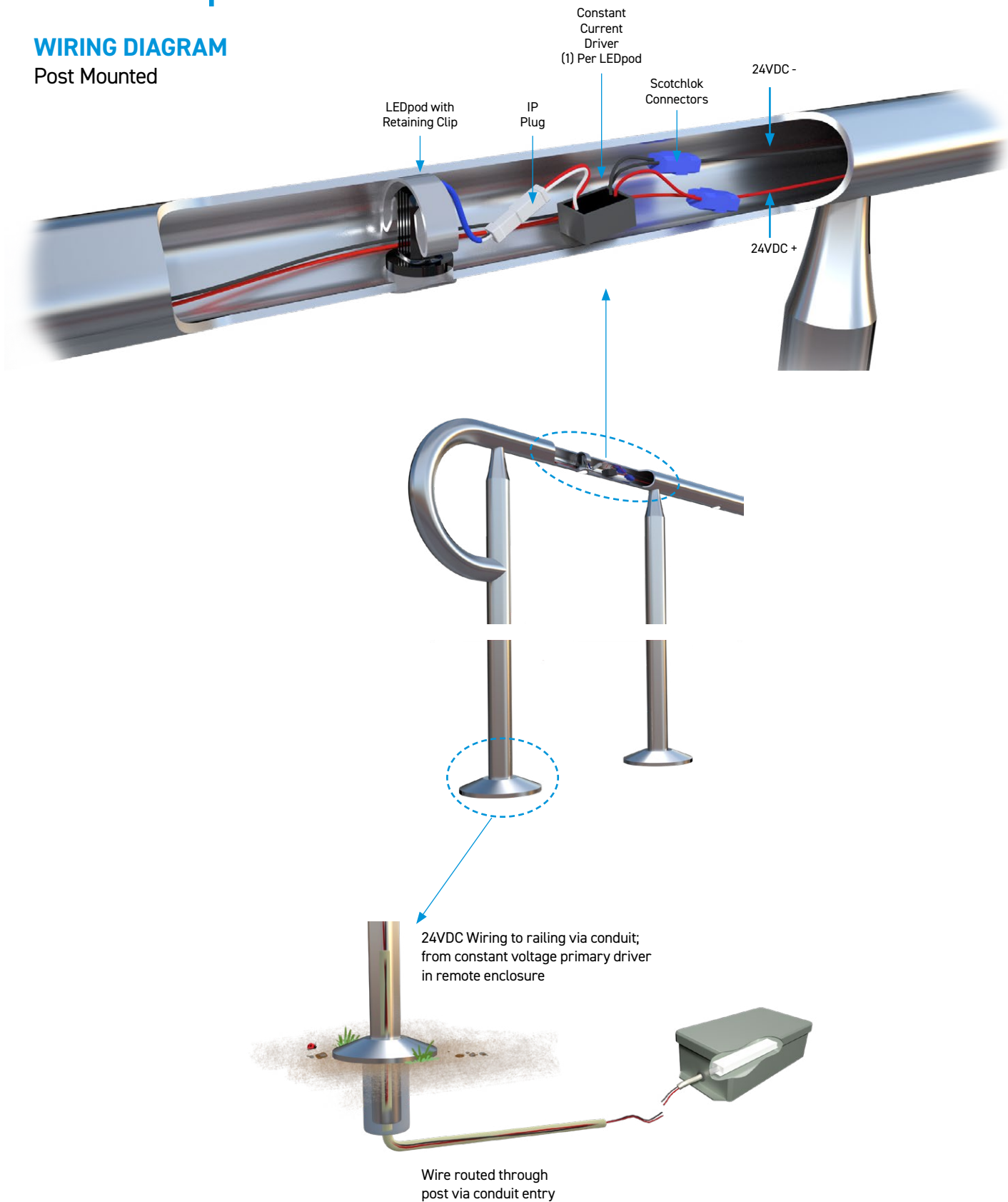


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KLIK LEDpod™ 50 Patented

WIRING DIAGRAM

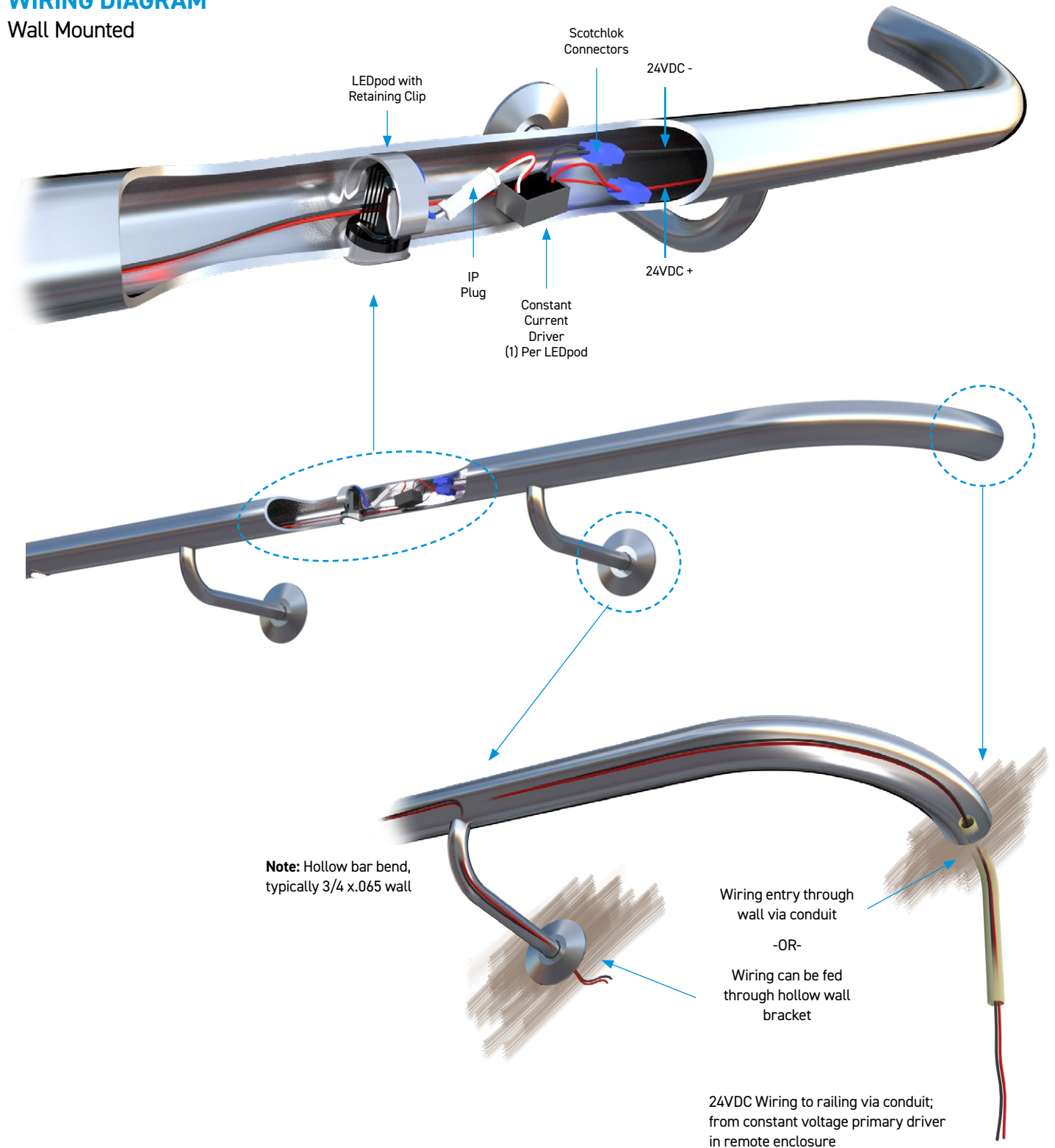
Post Mounted



KLIK LEDpod™ 50 Patented

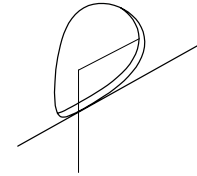
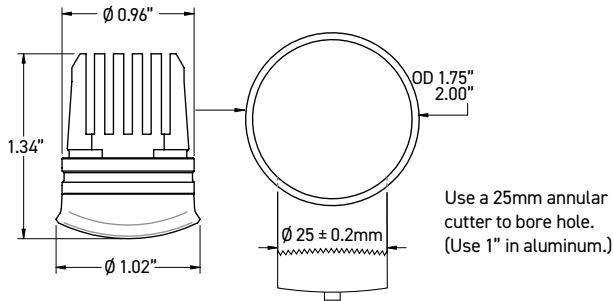
WIRING DIAGRAM

Wall Mounted

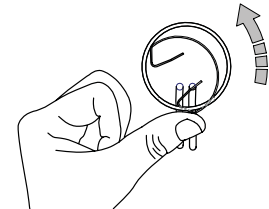
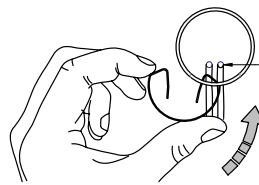
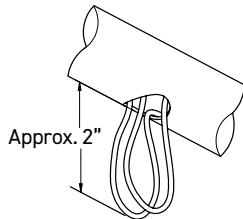
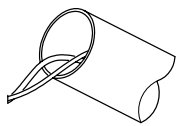


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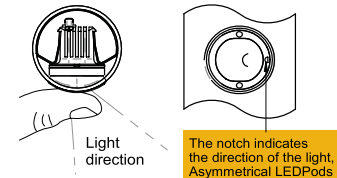
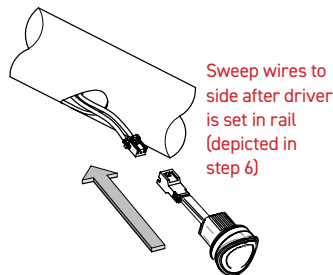
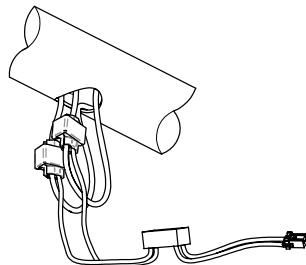
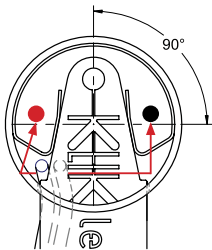
INSTALLATION INSTRUCTIONS Additional instructions may apply, consult factory.



- 1 Make sure drilled holes are deburred and excess chips are removed from railing.

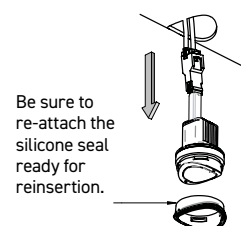
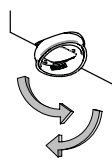
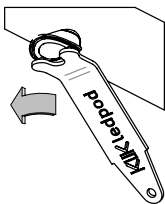


- 2 Feed through appropriate wires (14ga - 18ga).
- 3 Pull a loop of wire through hole.
- 4 Rotate retaining clips in as shown. Avoid tangling or severing through wire.
- 5 Apply pressure as shown to deform clip into place in a circular motion. Avoid damaging the surface of tube and tangling or damaging wire.



- 6 Fit clip into place until the clamping ends are equally centered over the hole. Use the tool to center the 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.
- 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. Install all LEDpods to this point, then perform a circuit test to ensure all LEDpods are operational BEFORE final installation.
- 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.

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.