



HR19 / GR19 1.99 in ROUND LED HANDRAIL & GUARDRAIL

HR19 Channel – the perfect recessed lighting solution for both indoor and outdoor handrail applications. With an impressive LED output ranging from 200 to 520 lumens per foot and protection up to IP65, this Handrail offers customizable brightness to suit any environment. Select a symmetric or 70° asymmetric lens. This is a full Handrail System, including all handrail, mounts, LEDs and accessories.

PRODUCT HIGHLIGHTS

- **BINNING:** ± 50K
- **CRI:** >90
- **EXPECTED LIFETIME:** L70 > 60,000 hours
- **OPERATING TEMP:** 22 °F – 131 °F (-30°C – 55°C)
- **RATING:** UL
- **OPERATING VOLTAGE:** 24-25 volt, constant voltage
- **WARRANTY:** 5 year
- **DIMENSIONS:** 1.99"
- **COLOR:** Stainless (custom per request)
- **MATERIAL:** 316 Stainless Steel
- **FINISH:** Mil (satin)

AVAILABLE COLORS

- 2400K
- 2700K
- 3000K
- 3500K
- 4000K
- 6500K
- Amber
- CUSTOM



CHARACTERISTICS

	Power	Dimensions	Length Inc. ¹	Max Run Length ²	Dimming
D	0.61 w/ft	0.51 x 0.21	3.93 in	131 ft	Low Voltage / 0-10V
P	1.46 w/ft				
HP	2.43 w/ft		1.94 in	65.6 ft	
PH1	2.93 w/ft		3.93 in		
PH2	4.87 w/ft		1.94 in		
Notes: 1. Length Increments: Refers to the Strip's cuttable segments. Example: If 1ft Power (P), you will cut 9.84 in or 14.76 in. 2. Max Run Length Refers to the Strip's total run length from connector to end, including interconnected lengths. Example: If you are ordering 60 ft of Power, you will need 4 EA 16 ft lengths.					

MAX. connection length between -4°F and -22°F is 1/3 of listed above. Lumen calculated at 2700K, please request individual data sheets if needed. Circuits with LEDscape product must have surge protection to qualify for 5 year warranty. LEDscape reserves the right to modify the information above without notice.

ORDERING CHART

Ordering Example: HR19-2.9-35-65-D-P

Length	Product Code		Lumen		Color		Enviroment		Lens		Mounting	
*Refer to MAX run lengths. If handrail lengths exceeds LED max run length you will have to have multiple power drops. Example 100 ft of railing will require 2 runs of LEDs.	HR19	1.99 IN Handrail	0.6	034 lm/FT	24	2400K	40	IP40 Indoor	D	Diffused	W	Wall
	GR19	1.99 IN Guardrail	1.4	129 lm/FT	27	2700K	65	IP65 Outdoor	ASY	Asymmetric	P	Post
			2.4	215 lm/FT	30	3000K			C	Clear	G	Glass
			2.9	310 lm/FT	35	3500K					GL	Glass In-Fill
			4.8	520 lm/FT	40	4000K					CU	Custom
			CU	custom	65	6500K						
					CU	Custom						
					A	Amber						

WALL & POST MOUNTING



Wall Mounting

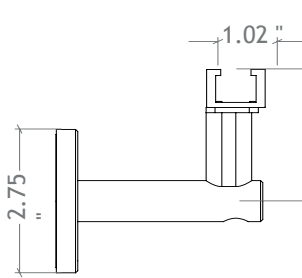


Glass Wall / Panel Mounting

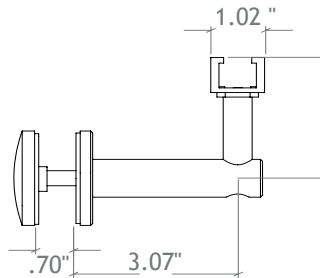


Post Mounting

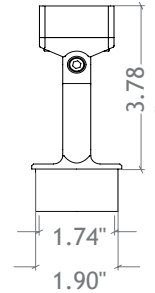
MOUNTING DIMENSIONS



Wall-Mount



Glass Mount



Post Mount

STANDARD & CUSTOMIZED WELDED ANGLES

There are the **standard welded angles** for the LEDscape Handrail, install in-field by handrail fabricator/installer.



90° Angle Horizontal



90° Angle Vertical



22-55° Angle downwards



22-55° Angle upwards



40-70° Angle



wall return

There are the **custom welded angles** for the LEDscape Handrails: 45°, 90°120° and Custom. Not provided, must be requested.



90° Angle



45° Angle



120° Angle

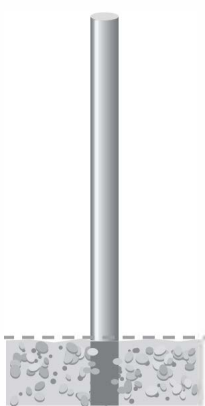


Customised Angles

POST OPTION



Flange Post



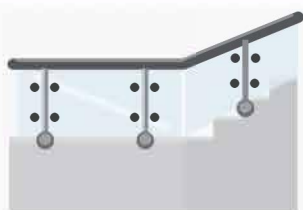
Embedded Post



Flange or Embedded Power Post
(access to 24v from remote power supply)

**Power Post will be provided with door for access to wires.

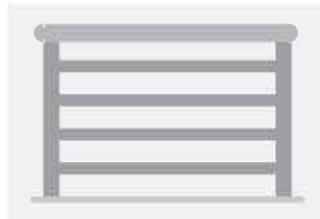
IN-FILL OPTIONS



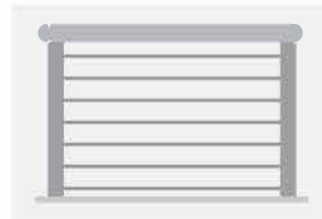
Glass In-fill



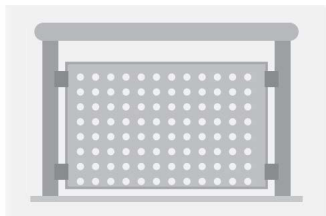
Picket In-fill



Bar or Tube In-fill

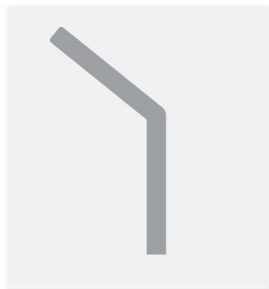


Steel Cable In-fill



Metal Panel In-fill

HANDRAIL TERMINATIONS



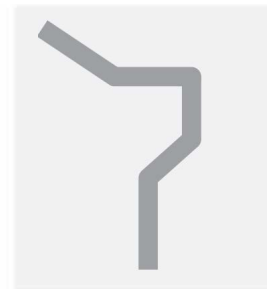
Return to Ground



Loop Back

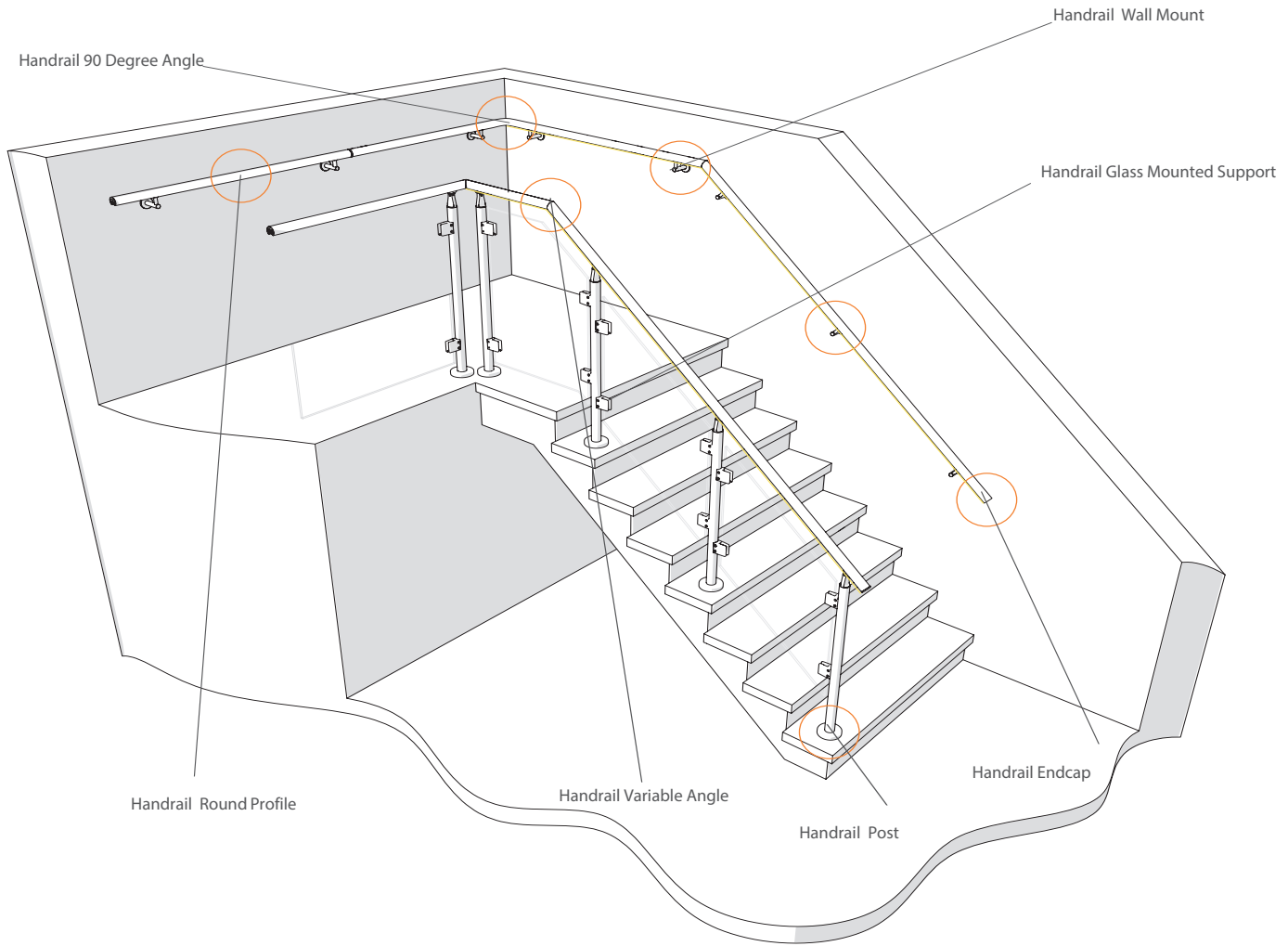


Return to Ground

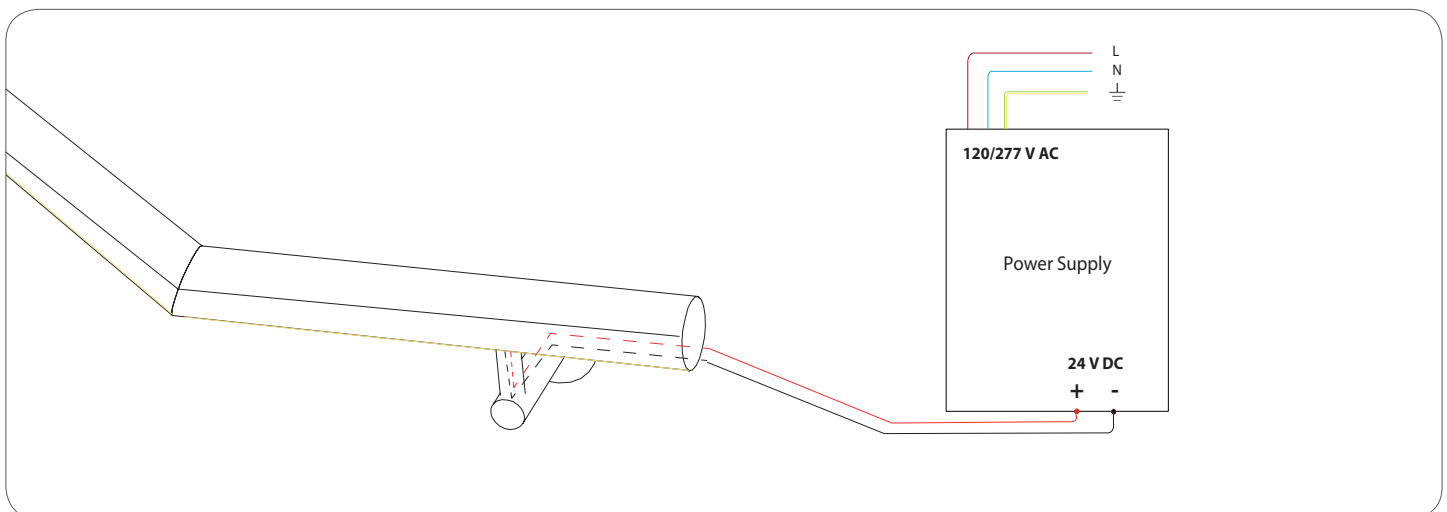


Designer Loop

Parts of the LEDscape Handrail



Power Supply



Power supply is ALWAYS remote though wall mount or post. Consult factory for alternate solutions.



LEDSCAPE OUTDOOR POWER SUPPLY

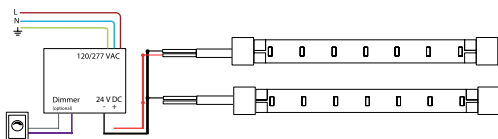
The LEDscape Series of Constant Voltage Class 2 LED Drivers from offers both cETLus style enclosures. The enclosure has a built-in junction box on both the input and output. These drivers are IP68 and are suitable for all locations. With universal input voltage ranging from 120 to 277VAC, this series of drivers are designed for commercial, industrial and residential applications. Our 5in1 smooth flicker-free linear dimming down to 1% and a wide variety of compatible dimmers, including 0-10V, Magnetic and Low voltage.

PRODUCT HIGHLIGHTS

- **INPUT VOLTAGE:** 120/277 V
- **OUTPUT VOLTAGE:** Variable 18-25V
- **INPUT FREQUENCY:** 50/60 HZ
- **OPERATING TEMP:** -13°F – 104°F
- **DEGREE OF PROTECTION (IP):** IP68
- **DIMMABLE:** to 1%
- **CLASS 2:** All sizes
- **LOAD REQUIREMENTS:** 10%

Note: If using outdoor, verify contractor use included water and moisture tight enclosure. Not direct burial rated.

POWER AND CONNECTION DIAGRAM



POWER SUPPLY = Product Wattage X Length

24 Nominal supply voltage of LEDscape in Volt
Recommended MAC output of power supply 80%

To calculate MAX run distance from Power Supply to LED
reference power drop chart : [Here](#).

CHARACTERISTICS

Power	Output Current	Efficiency	Power Factor	Dimensions
30W	1250mA	> 86%	>0.95	7.50" L X 3.62" W X 1.65"H
60W	2600mA	> 86%	>0.95	7.50" L X 3.62" W X 1.65"H
96W	4800mA	> 86%	>0.95	8.50" L X 3.66" W X 1.65"H
120W (2x60 watt)	5000mA	> 86%	>0.93	10.15" L X 4.85" W X 1.65"H
192W (2x96 watt)	8000mA	> 86%	>0.93	10.15" L X 4.85" W X 1.65"H
288W (3x96 watt)	8000mA	> 86%	>0.93	12.44" L X 4.85" W X 1.65" H
384W (4x96 watt)	16000mA	> 86%	>0.93	12.44" L X 4.85" W X 1.65" H

ORDERING CHART

NOTE: View additional options [here](#).

Ordering Example: PS-24-O-D3-60-U

Series		Output Voltage		Environment		Dimming		Wattage		Voltage Input	
PS	Power supply	24	24V	O	Outdoor/Indoor	ND	Non Dimming	30	10-30W	U	120/277V
						D3	5 in 1 Dimming	60	31-60W		
								96	61-96W		
								120	97-120W		
								192	121-192W		
								288	193-288W		
								384	289-384W		
								CU	Custom Output		

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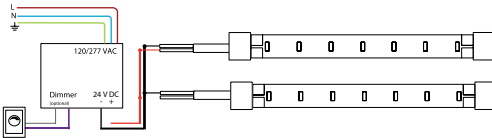
LEDSCAPE OUTDOOR VAULT POWER SUPPLY

The LEDscape Vault Series of Constant Voltage Class 2 LED are powered by QTL Q-Vault enclosure and power supply. The system is class 2, IP68 and are suitable for all direct burial applications. With universal input voltage ranging from 120 to 277VAC, this series is designed for commercial, industrial and residential applications. Pick from Magnetic to Electronic dimming with a wide variety of compatible dimmers, including 0-10V and Magnetic low voltage.

PRODUCT HIGHLIGHTS

- **INPUT VOLTAGE:** 120/277 V
- **OUTPUT VOLTAGE:** Variable 24V
- **INPUT FREQUENCY:** 50/60 HZ
- **OPERATING TEMP:** -13°F – 104°F
- **BAA & BABA**
- **DEGREE OF PROTECTION (IP):** IP68, Direct Burial
- **DIMMABLE:** Magnetic, 0-10V
- **CLASS 2:** All sizes
- **LOAD REQUIREMENTS:** 10%

POWER AND CONNECTION DIAGRAM



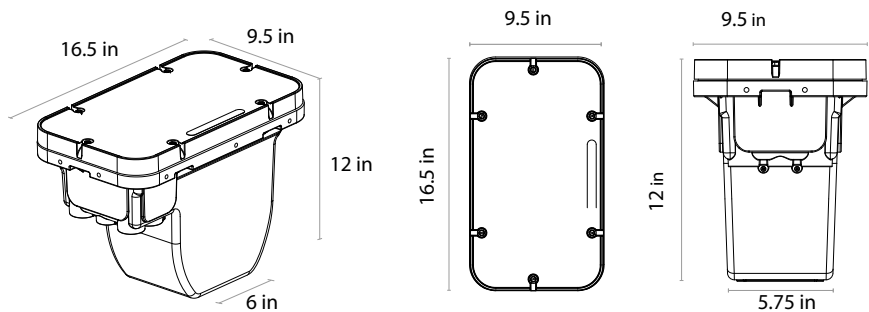
$$\text{POWER SUPPLY} = \text{Product Wattage} \times \text{Length} \times 120 \times \left[\frac{U_{\text{Supply}}}{24} \right]$$

OPTIONS:

U Set supply voltage of the power supply in Volt
24 Nominal supply voltage of LEDscape in Volt
Recommended MAC output of power supply 80%

To calculate MAX run distance from Power Supply to LED reference power drop chart: [Here](#).

CHARACTERISTICS



Knock Outs (in)	NPT KO's
1/2"	2
3/4"	4

ORDERING CHART

NOTE: View additional options [here](#).

Ordering Example: PS-24-V-M-200-120

Series		Output Voltage		Environment		Dimming		Wattage		Voltage Input	
PS	Power supply	24	24V	V	Vault IP68 Direct Burial	M	Magnetic	60	60W	120	120V
						010	0-10V	100	100W	277	277V
								200	200W		
						Magnetic ONLY		300	300W		
								400	2x200W		
						Magnetic ONLY		600	2x300W		

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