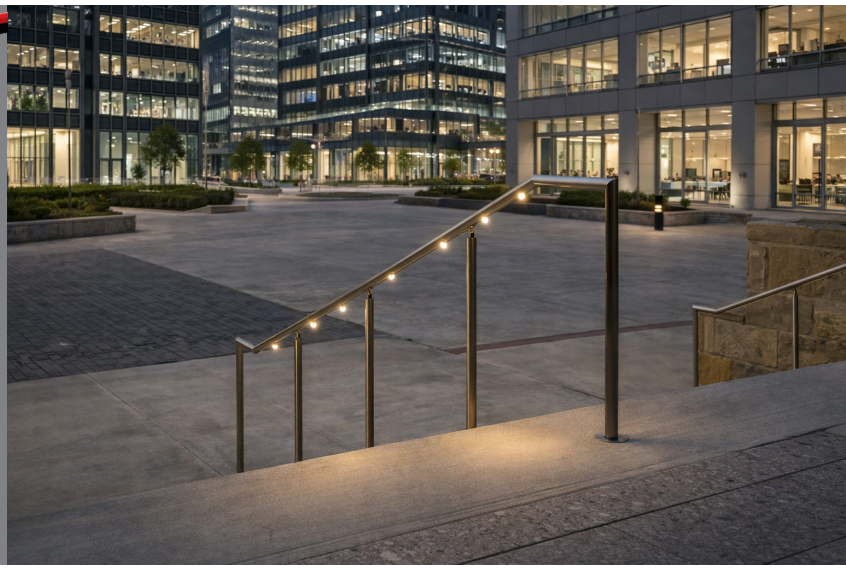
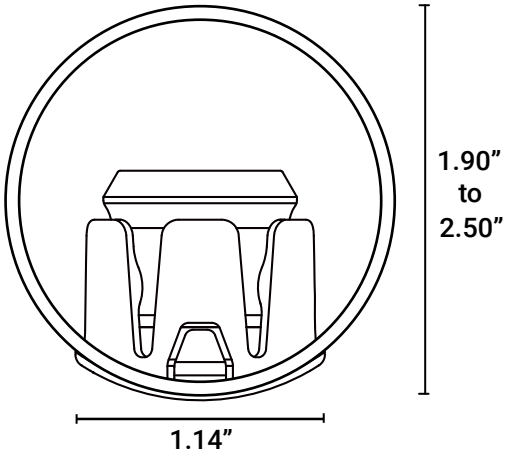
Illuminated Handrail - M25 LED Module

MOD-M25-LED

Round Profile



M25 DOT MODULES

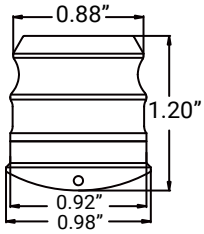


FEATURES

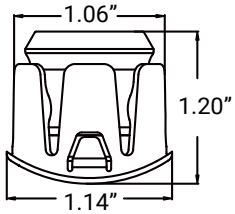
The M25 Dot Modules cast a clean, downward beam across the tread below - defining steps without excess light spill. Machined from 316L stainless steel and sealed to IP67, they're made to last in the places they're most likely to be used — outdoors, in wet conditions, and under regular wear. Two beam distributions, an asymmetric and a narrow flood option, give you the flexibility to get the light exactly where you want it. An acrylic optic handles the beam shaping.

LUMENS	109L - 128L
CCT	27K/30K/35K/40K/RGB
DIMMING	Fixed Output
CRI	90+ CRI
VOLTAGE	24v DC - Constant Voltage
IP RATING	IP 67
BEAM PATTERNS	60° / Asymmetric 45°
WORKING TEMPERATURE	-4° F to 113° F
LIFETIME	50,000 hour LED lifespan

Dimensions



SYMMETRICAL



ASYMMETRICAL

FOR WET LOCATION

Americans with Disabilities Act

c UL us LISTED

5 YEARS LIMITED WARRANTY

Illuminated Handrail - M25 LED Module

OPTICS
The M25 Dot Modules use an acrylic optic to shape a clean, controlled downward beam across the tread below. Available in asymmetric and narrow flood distributions, the optics allow light to be placed precisely where needed while limiting glare and unnecessary spill. With 90 CRI standard, the modules deliver accurate color rendering across 2700K–4000K, Amber, and optional RGB with DMX512 control.

CONSTRUCTION
The M25 Dot Modules are machined from 316L stainless steel for long-term durability, corrosion resistance, and reliable outdoor performance. A double O-ring seal provides IP67 ingress protection against moisture and dust, while the polycarbonate retaining ring secures each module cleanly within the handrail. Built for wet locations and regular wear, the compact construction delivers a rugged, low-profile lighting solution for architectural handrail applications.

INSTALLATION
The M25 Dot Modules are designed to install effortlessly into standard round handrails using the included 27 mm hole saw and removal key. Each module fits into a 27mm mounting hole and is secured in place with a polycarbonate retaining ring. Wire-splice connections keep installation simple and clean, while a single 24V driver can power up to 60 modules for longer continuous runs. The system is compatible with Ø48–63mm or Ø38–45 mm handrails with wall thicknesses from 1.0–1.5 mm.

DRIVERS
Power is provided by means of industry leading constant voltage LED drivers rated for universal power input from 120V to 277V at a frequency of 50-60Hz. Elite drivers produce less than 20% THD, and have a power factor of .90 to 1.00.

LISTINGS
UL Listed for Wet Location

cULus Listed for Wet Location

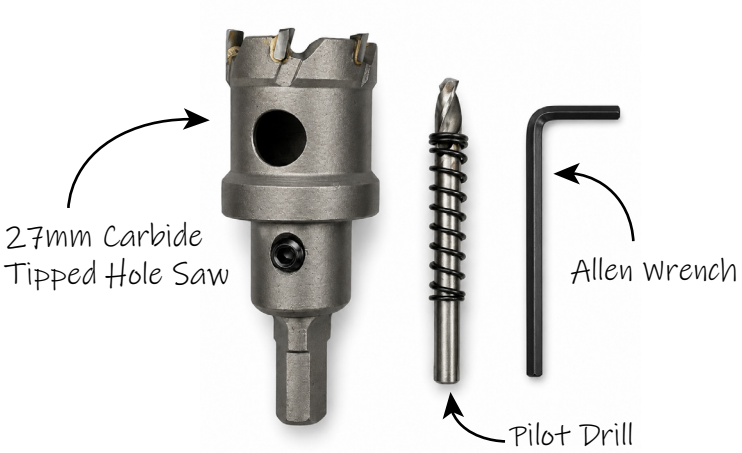
FCC 15 - EMI/RFI emission per FCC 47CFR part 15 at 120VAC or 277VAC

RoHS - Contains no mercury or lead and RoHS compliant

Photometric testing completed in accordance with IES LM-79 and TM-30 standards

Qualifies for California Title 24 high-efficacy LED compliance

WARRANTY
Five-year warranty for parts and components (labor not included).



***Drilling Kit Sold Separately**

Retaining Ring

HR48

For Handrail
Ø 48–63mm;
Thickness: 1.0-1.5mm

HR38

For Handrail
Ø 38–45mm;
Thickness: 1.0-1.5mm

MOD-M25-LED						
SERIES	**OPTICS**	**POWER**	**CCT (90 CRI)**	**RETAINING RING**	**DRILLING KIT**	**DRIVER**
M25 - M25 Dot Round Profile	**R60** - Symmetric 60° **RA45** - Asymmetric 45°	**1.5** - 1.5 Watt	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **RGB** - RGB DMX512	**HR48** - 48-63mm **HR38** - 38-45mm	**DK** - Hole Saw + Accessories	**30W** - 30 Watt **60W** - 60 Watt **96W** - 96 Watt

Illuminated Handrail - M25 LED Module

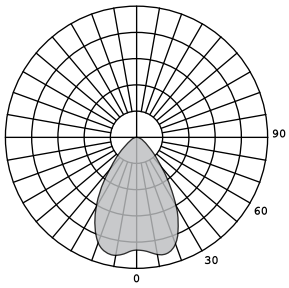
MOD-M25-LED
Round Profile

Photometric Data

MOD-M25-LED-R60

3	4	5	5	5	5	5	4	3	2
6	10	13	14	15	14	14	13	10	5
11	20	27	29	29	29	29	26	19	9
11	21	28	30	30	30	29	27	20	10
6	12	13	14	13	13	13	12	9	5
2	3	4	4	4	4	4	4	3	2

Rail Height: 36"
Module Spacing 1.0 ft.



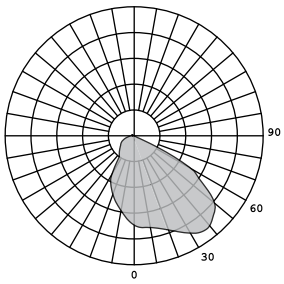
M25 MODULES
4000K | 90 CRI | 24V

LED MODULE	BEAM ANGLE	LUMENS (lm)	POWER (W)
R60	60°	128	1.5

MOD-M25-LED-RA45

2	3	3	3	3	3	3	3	3	2
3	5	6	7	7	7	7	6	5	4
6	10	13	15	16	15	15	14	11	7
8	13	17	20	21	21	21	19	15	10
8	12	15	18	19	19	18	16	13	9
6	9	11	13	14	14	14	12	10	7

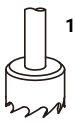
Rail Height: 36"
Module Spacing 1.0 ft.



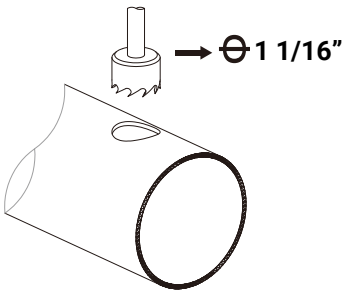
M25 MODULES
4000K | 90 CRI | 24V

LED MODULE	BEAM ANGLE	LUMENS (lm)	POWER (W)
RA45	45°	109	1.5

LED Module Installation & Removal:



1 1/16" HOLE SAW
Hole saw suitable for handrail wall thicknesses less than 1/8".
Recommended operating speed: 200–450 RPM.
Do not use more than 20 times.



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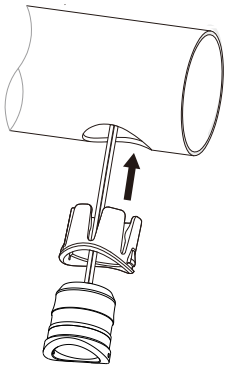

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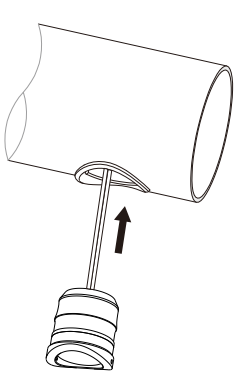

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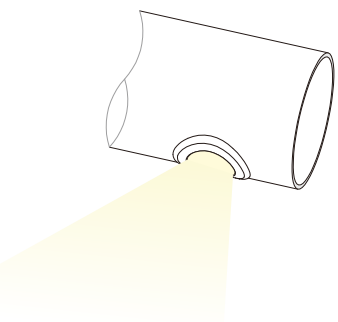
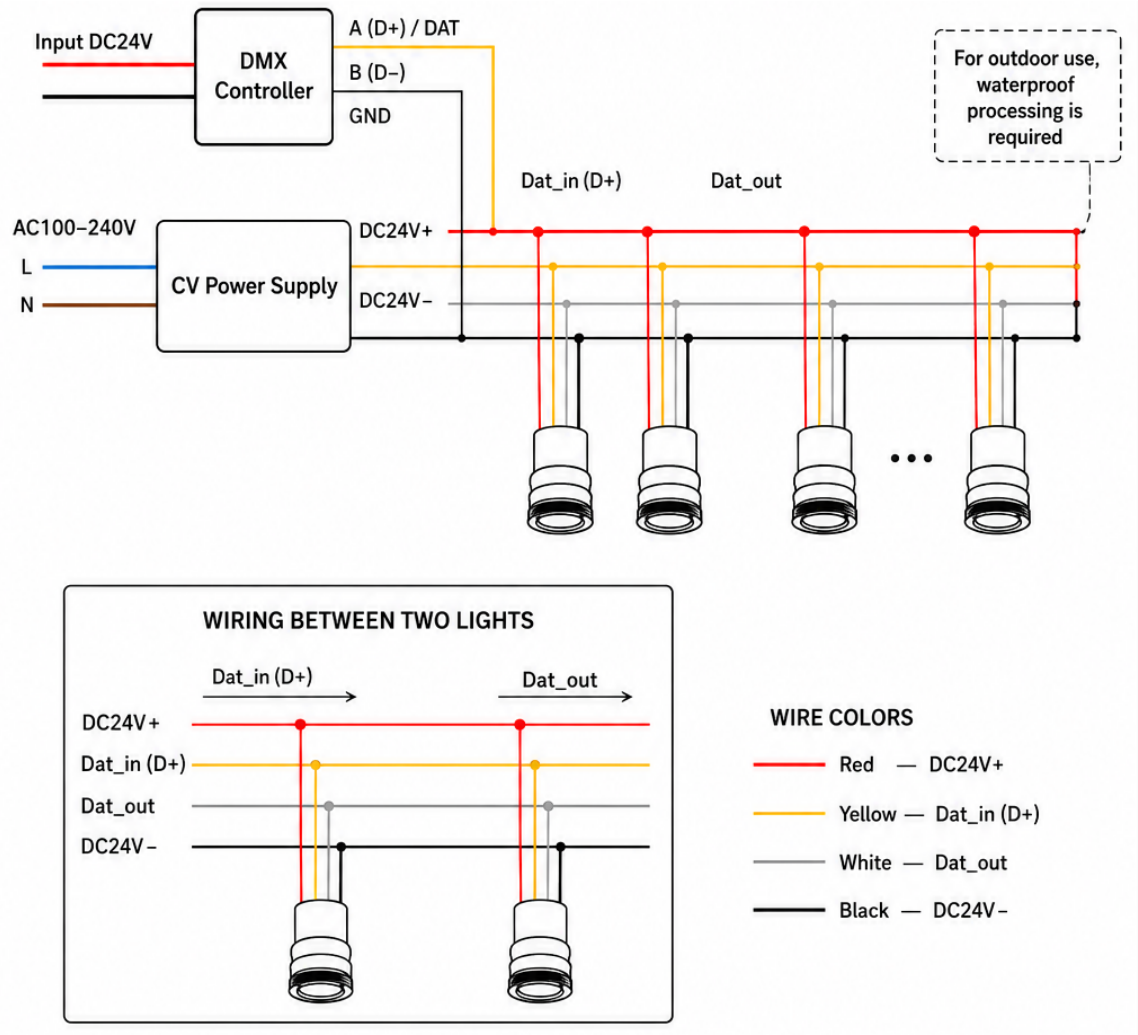


4

WIRING DIAGRAM FOR DMX WHITE/RGB HANDRAIL LIGHT



NOTES

• This LED handrail light is suitable for all DMX controllers available on the market.
• The signal connection to the controller uses A (D+) / DAT. B (D-) is not used.
• The signal is transmitted via a DMX decoding IC cascade (similar to the SPI protocol).
• The address code is automatically written after power-up. No manual setting is required.
• The signal and power supply include lightning protection and anti-interference design, ensuring high reliability and long service life.
• This handrail light is easy to install in narrow handrail pipes.
• The bus uses three wires (two power wires and one signal wire).
• The distance between two lights should be less than 7 meters.
The maximum one-way distance should not exceed 170 pieces.

RGB / AC to DC (DMX WiFi)

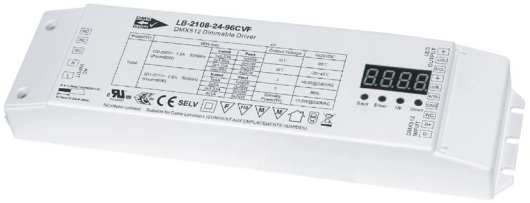
This solution enables the RGBW strip light to function with a DMX512 Dimmable LED Driver AC to DC-DMX WiFi system. It includes the following components:

LB-2108-24-96CVF-UL Driver – Powers the RGBW strip light and integrates the DMX decoder, converting the DMX signal to control signals that adjust the color and brightness of the strip light.
Converter – Wired to the LB-2108-24-96CVF-UL Driver, it processes the DMX control signals, ensuring the RGBW strip light operates properly, allowing for smooth adjustments to color and brightness.
DMX-WIFI Wall Controller – Sends the DMX WiFi signal wirelessly to the converter and the LB-2108-24-96CVF-UL Driver, enabling remote control of the RGBW strip light.
LED25W-24 Power Supply – Used in multiple locations: one powers the wall controller by converting 120V AC from the outlet to 24V DC, while another powers the converter, ensuring all components receive the proper voltage.

This configuration ensures seamless, remote control of the RGBW strip light through the DMX512 Dimmable LED Driver AC to DC-DMX WiFi system, providing precise control over the color and brightness of the strip light, while maintaining proper power conversion and signal processing throughout the system.

LB-2108-24-96CVF-UL

Input Voltage	120-277 VAC
LED Channels	4
Frequency Range	50/60Hz
DC Voltage	24V DC
Dimensions	9.6”X2.5”X1.2”



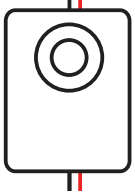
LB-2108-24-96CVF-UL

LB-2817DMX

Output Signal	DMX512 Signal
Voltage	12-24 VDC
Operating Temperature	0-40°C / 32°F-104°F
Dimensions	7”X1.8”X0.8”

LED25W-24
(Power Supply)

LB-2817DMX



WALL CONTROL

LB-2812Wi

Output Signal	DMX + WiFi Signal
Power Supply	12-24 VDC

LED25W-24 (Power Supply)
(Optional for wall controller)

Control 3 zones.