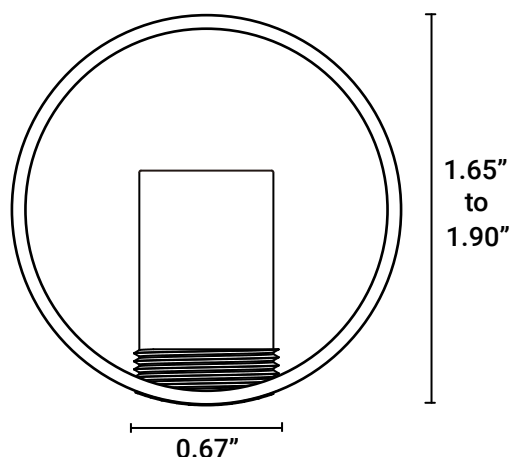
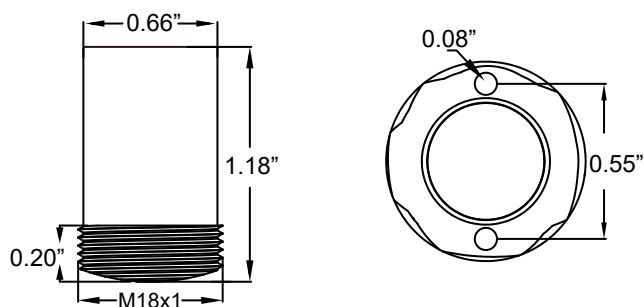




M18 DOT MODULES



Dimensions



FEATURES

The M18 Dot Modules provide precise step illumination with controlled downward light that helps define step edges and improve visibility along paths of travel. Built from 316L stainless steel, each module combines a low-profile appearance with dependable performance in demanding environments. Four distinct beam options allow light to be directed where it's needed most. The result is a clean, subtle lighting solution that complements both contemporary and traditional architectural settings.

LUMENS	77L - 125L
CCT	27K - 60K/Amber/Blue/Green
DIMMING	Fixed Output
CRI	90+ CRI
VOLTAGE	24v DC - Constant Voltage
IP RATING	IP 67
BEAM PATTERNS	40°/55°/Asymm. 35°/Asymm. 55°
WORKING TEMPERATURE	-4° F to 113° F
LIFETIME (TM-21)	L70 > 55,000 hours



OPTICS

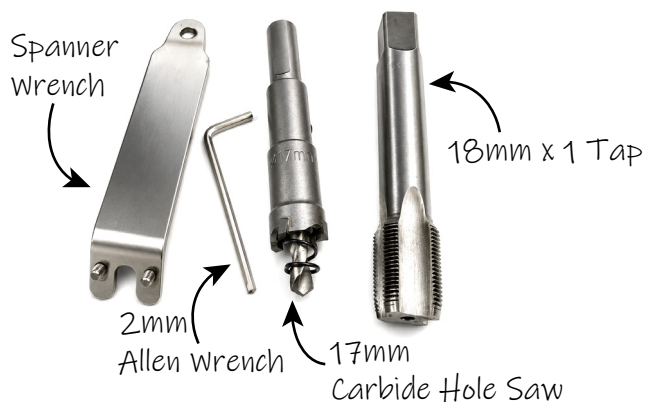
The M18 Dot Module is designed to deliver precise, controlled illumination from a compact point source. Four beam options—40°, 55°, 55° asymmetric, and 35° x 25° asymmetric—allow light to be tailored to the application, from broader step visibility to more focused directional throw. Symmetric beam distributions provide even downward illumination, while asymmetric options help push light forward across walking surfaces, improving visibility along stairs, ramps, and pathways without unnecessary spill. M18 modules are ideal for handrails, awnings, canopies, trellises, and other architectural elements where discreet, targeted illumination is required.

CONSTRUCTION

M18 Dot Modules are constructed from 316L stainless steel for long-term durability, corrosion resistance, and dependable performance in demanding outdoor environments. Each module includes a silicone O-ring gasket seal to help protect against moisture and environmental exposure.

INSTALLATION

M18 Dot Modules are designed for quick installation into round handrails and other curved architectural surfaces. Each module installs through an M18 x 1.0 threaded opening, with optional installation tools for fast setup, including an M18 x 1 drill tap and 16 mm annular hole cutter. For added tamper resistance, thread-lock may be applied to the threads during installation. The system is compatible with standard Ø42–48 mm handrails with wall thicknesses from 1.5–2 mm.



*Drilling Kit Sold Separately

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).

REMOTE DRIVER WIRING DISTANCE

TOTAL FIXTURE WATTAGE	MAX. CABLE LENGTH FROM DRIVER TO FIXTURE				
	18G	16G	14G	12G	10G
10W	134'	215'	345'	539'	784'
20W	68'	109'	174'	272'	397'
30W	45'	72'	115'	181'	263'
40W	33'	54'	86'	135'	197'
50W	27'	43'	69'	108'	158'
60W	22'	36'	57'	90'	131'
70W	19'	31'	49'	77'	112'
80W	17'	27'	43'	68'	98'
90W	15'	24'	39'	62'	95'
100W	14'	22'	36'	56'	82'

MOD-M18-LED

SERIES

M18-M18 Dot
Round Profile

OPTICS

R40 - Symmetric 40°
R55 - Symmetric 55°
RA55 - Asymmetric 55°
RA35 - Asymmetric 35°x25°

POWER

1.2 - 1.2 Watt

CCT (90 CRI)

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K
50K - 5000K
60K - 6000K
AMB - Amber 590nm
BL - Blue
GR - Green

DRILLING KIT

DK - Hole Saw +
Accessories

DRIVER

30W - 30 Watt
60W - 60 Watt
96W - 96 Watt

Photometric Data

Symmetric

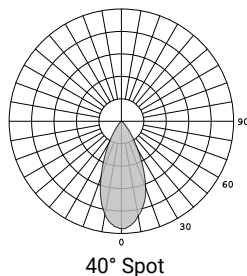
M18 MODULES 4000K | 90 CRI | 24V

LED MODULE	BEAM ANGLE	LUMENS (lm)	POWER (W)
R40	40°	110	1.2
R55	55°	125	1.2

MOD-M18-LED-R40

1	2	2	2	2	2	2	2	2	1
2	5	6	6	6	6	6	6	5	2
5	31	35	35	35	35	35	35	31	6
5	31	35	35	35	35	35	35	31	6
2	5	6	6	6	6	6	6	5	2
1	2	2	2	2	2	2	2	2	1

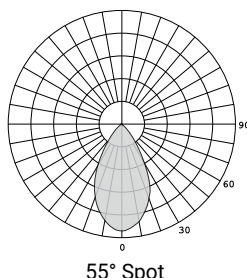
Rail Height: 36"
Module Spacing 1.0 ft.



MOD-M18-LED-R55

2	3	3	3	4	4	3	3	2	2
5	8	10	10	10	10	10	10	7	4
9	17	22	23	24	24	23	21	15	7
10	19	25	26	27	27	26	24	18	8
5	10	12	13	13	13	12	11	9	4
2	3	4	4	4	4	4	3	3	2

Rail Height: 36"
Module Spacing 1.0 ft.



Asymmetric

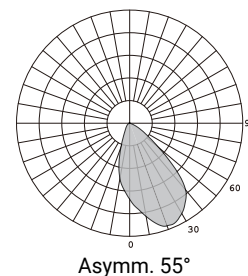
M18 MODULES 4000K | 90 CRI | 24V

LED MODULE	BEAM ANGLE	LUMENS (lm)	POWER (W)
RA55	55°	95	1.2
RA35	35°x25°	77	1.2

MOD-M18-LED-RA55

1	1	1	2	2	2	1	1	1	1
2	2	3	3	3	3	3	3	2	1
5	8	10	10	10	10	10	10	7	3
7	12	16	17	17	17	17	15	11	6
6	10	14	15	15	15	14	13	9	5
4	7	8	9	9	9	8	8	5	3

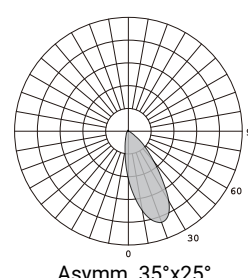
Rail Height: 36"
Module Spacing 1.0 ft.



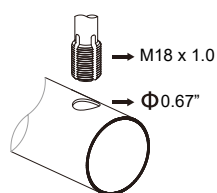
MOD-M18-LED-RA35

1	2	2	2	2	2	2	2	1	1
2	3	3	3	3	3	3	3	3	2
3	8	9	10	10	10	10	9	8	3
6	19	22	23	23	23	23	22	18	5
4	12	15	15	16	16	15	15	12	4
2	4	5	6	6	6	6	5	4	2

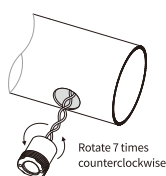
Rail Height: 36"
Module Spacing 1.0 ft.



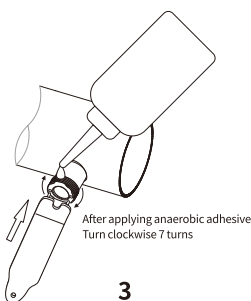
LED Module Installation & Removal:



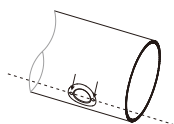
1



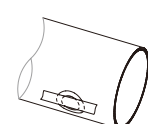
2



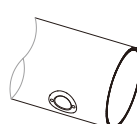
3



4



5

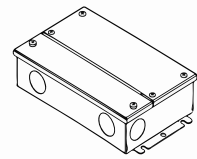
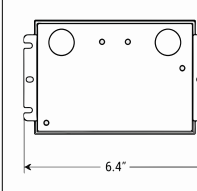
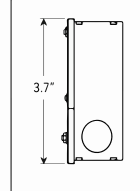
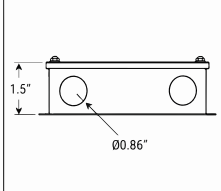
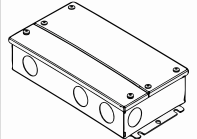
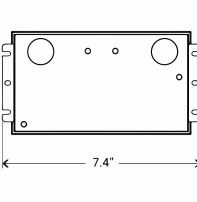
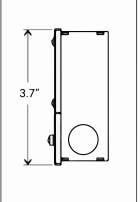
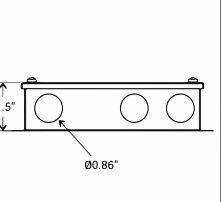
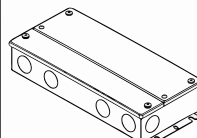
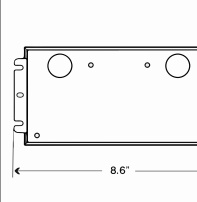
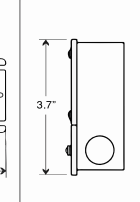
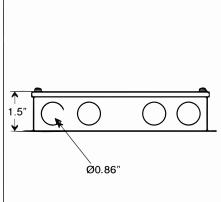


6

Instructions

1. Drill and tap a Ø0.67" hole with an M18 x 1.0 thread tap.
2. Insert the module and rotate it 7 turns counterclockwise.
3. Apply anaerobic adhesive, then turn the module 7 turns clockwise to secure it.
4. Rotate the module until the two holes are aligned with the axis of the handrail.
5. Hold the M18 fitting in place with adhesive tape until the thread glue dries, then remove the tape.
6. Confirm the module is fully seated and properly aligned in the handrail.

Remote Driver Specifications

30W Max: 22 Modules	ED-30W-24V-TRIAC/DIM10     
60W Max: 45 Modules	ED-60W-24V-TRIAC/DIM10     
96W Max: 66 Modules	ED-96W-24V-TRIAC/DIM10     

*Max Modules based on 1' spacing with 18AWG wiring

Model	Input Voltage	Output Voltage	Wattage	Max. Output Current	Frequency	Location	Certificate
ED-30W-24V-TRIAC/DIM10	100-277VAC	24V	30W	1.25A	50/60Hz	Dry, Damp, and Wet locations	UL, cUL, FCC, Class 2, RoHS
ED-60W-24V-TRIAC/DIM10	100-277VAC	24V	60W	2.50A	50/60Hz	Dry, Damp, and Wet locations	UL, cUL, FCC, Class 2, RoHS
ED-96W-24V-TRIAC/DIM10	100-277VAC	24V	90W	4A	50/60Hz	Dry, Damp, and Wet locations	UL, cUL, FCC, Class 2, RoHS

LED Module Wiring

Suitable for class 2 power, maximum load not to exceed 100W

