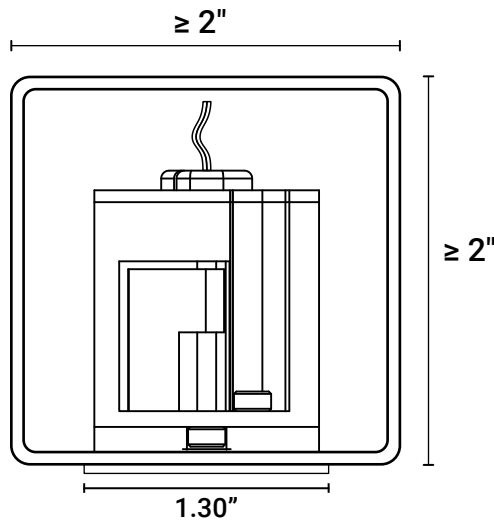
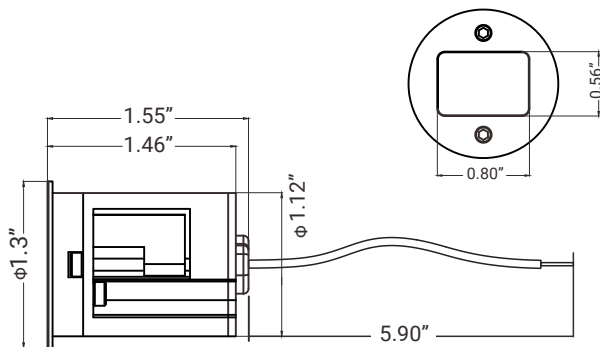




S29 DOT MODULES



Dimensions



FEATURES

S29 Dot Modules provide discrete, low-glare illumination to improve egress safety, giving occupants confidence in taking their next step. Designed for long-term outdoor service, each module features IP67 ingress protection to seal out water, dust, and dirt. Two optic distributions are available—a 45° asymmetric for targeted delivery and a 90° symmetric for wider coverage.

LUMENS	110L - 123L
CCT	27K/30K/35K/40K
DIMMING	Fixed Output
CRI	90+ CRI
VOLTAGE	24v DC - Constant Voltage
IP RATING	IP 67
BEAM PATTERNS	90° Symmetric / 45° Asymmetric
WORKING TEMPERATURE	-4° F to 113° F
LIFETIME (TM-21)	L70 > 55,000 hours

OPTICS

S29 LED modules utilize an acrylic optic a specular white internal reflector to maximize optical efficiency and control beam distribution. A high-performance 3535 LED chip delivers consistent output through a lightly frosted aperture window, softening the source while reducing glare. Available beam options include a 90° wide flood for broad, even illumination and a 45° asymmetric distribution for controlled forward throw, making it suitable for applications where light needs to be directed precisely without unnecessary spill.

CONSTRUCTION

S29 modules are constructed from precision-machined aerospace-grade 6063 aluminum for strength, durability, and long-term performance in demanding environments. The housing is finished in a matte black powder coat, providing a clean architectural appearance while protecting against corrosion, weathering, and exposure to the elements. A thin precision-machined fascia allows for flush fitment, keeping the fixture concealed, unobtrusive, and nearly unnoticeable from direct view.

INSTALLATION

The drilling kit includes a 30mm carbide-tipped annular hole saw with pilot drill and Allen wrench. Each module installs from below using an integrated jack-screw mechanism, securely locking the fixture in place without exposed fasteners.



*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-S29-LED

SERIES

S29 - S29 Dot
Square Profile

OPTICS

S90 - Symmetric 90°
AS45 - Asymmetric 45°

POWER

1.5 - 1.5 Watt

CCT (90 CRI)

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K

DRILLING KIT

DK - Hole Saw +
Accessories

DRIVER

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

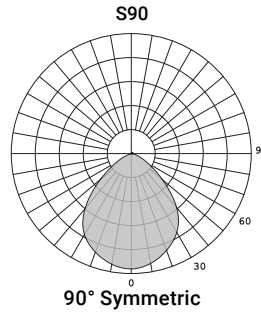
Photometric Data



MOD-M29-LED-S90

4	5	7	7	8	8	7	7	5	4
6	9	12	13	14	14	13	11	9	6
8	13	17	19	20	20	19	17	13	8
8	13	17	19	20	20	19	17	13	8
6	10	12	13	14	14	13	11	9	6
4	6	7	8	8	8	7	6	5	3

Rail Height: 36"
Module Spacing 1.0 ft.



DOT MODULES
4000K | 90 CRI | 24V

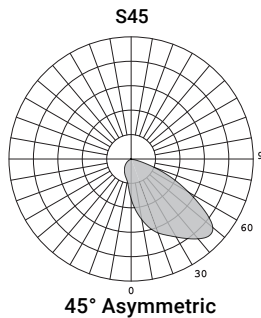
LED MODULE	BEAM ANGLE	LUMENS (lm)	POWER (W)
S90	90°	123	1.5



MOD-M29-LED-S45

2	2	2	2	2	2	2	2	2	1
2	3	4	4	4	4	4	4	3	2
4	5	7	7	8	8	7	6	5	3
7	11	14	15	16	16	15	14	10	6
8	13	16	18	18	18	18	15	12	7
7	10	13	14	15	14	12	10	6	

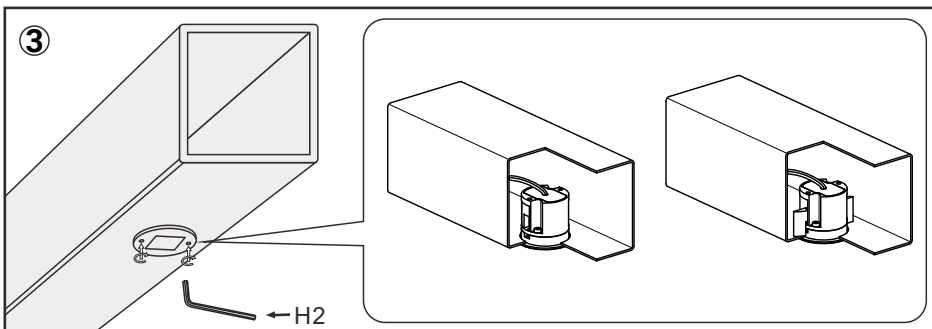
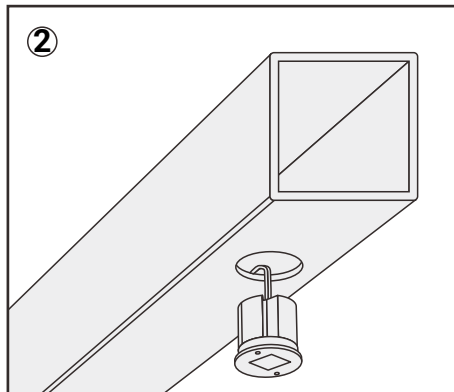
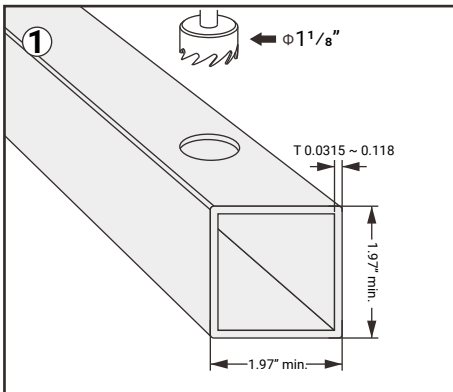
Rail Height: 36"
Module Spacing 1.0 ft.



DOT MODULES
4000K | 90 CRI | 24V

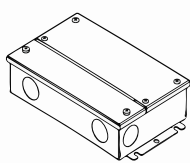
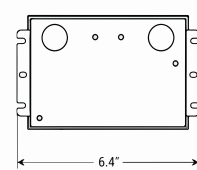
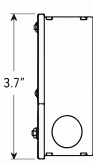
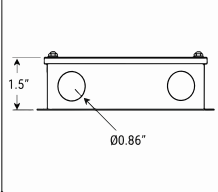
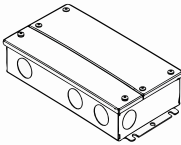
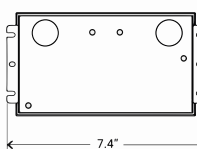
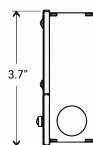
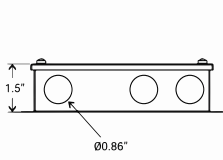
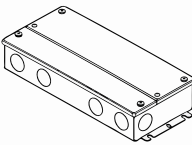
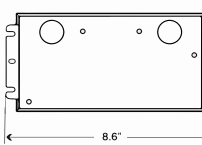
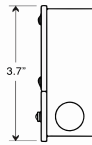
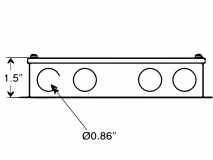
LED MODULE	BEAM ANGLE	LUMENS (lm)	POWER (W)
S45	45°	110	1.5

Installation Instructions



1. Verify the handrail is a square tube at least 1.97" x 1.97" with wall thickness 0.032"–0.118"
2. Mark the hole locations on the handrail
3. Using a 1 1/8" diameter hole saw, drill an access hole in the face of the square tube
4. Make electrical connections and insert the LED module into the tube through the 1 1/8" hole
5. Position the flange so it sits flush over the opening
6. Use an H2 (2 mm) Allen key to tighten the small set screws on the flange assembly
7. Confirm the mechanism is fully seated and locked, with the plate flush and the connector stable

Remote Driver Specifications

30W Max: 18 Modules	ED-30W-24V-TRIAC/DIM10     
60W Max: 36 Modules	ED-60W-24V-TRIAC/DIM10     
96W Max: 54 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

