

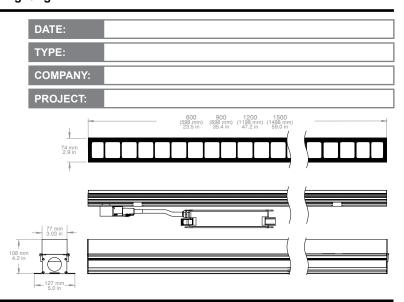




INGROUND Monochromatic Linear Wall Washing and Grazing LED Lighting

PRODUCT SPECIFICATION SHEET





FEATURES

Lighting Performance:

- Up to 3755 lumens/meter (1144 lumens/foot)
- Superior quality of white light: excellent LED to LED color consistency
- Diffusing optical film creates uniform light output immediately adjacent to luminaire

Mechanical Details:

- Trimless inground luminaire, stainless steel top frame and aluminum body for improved thermal performance
- · Compact size, 77 mm (3.03 in) wide, 108mm (4.2 in) high
- IP68 rated luminaire with proprietary sealing process and solid extruded, anodized aluminum UNIBODY™ design
- Electronic micro leak detection test performed for each hermetically sealed fixture
- Meets 3G ANSI C136.31-2010 Vibration Standard for Bridge and Overpass Applications
- IK10 with 10mm optically clear tempered glass lens (no yellowing over time)
- Through wiring via snap-in and lock connectors

Control:

- DMX control through GVA's power-data equipment
- 300mm resolution, each 300mm section can be addressed individually, self-addressing fixtures **Projected Lifetime**: L70 > 100,000hrs @ t_s = 50°C (122°F)

Operating Temperatures: -40°C to +50°C (-40°F to 122°F)

SPECIFICATION LOGIC

LUMINAIRE + IG-BOX + IG-POD

LUMINAIRE									
FAMILY	NOMINAL LENGTH	FINISH	POWER per 300mm (1ft)	LED COLOR	OPTICS (FWHM)		TILT	OPTIONAL	
STR9-IG	3001 600 900 1200 1500	TL - Trimless	3W 5W - ASHRAE/ IESNA 10W 15w	2200K 2700K 3000K 3500K 4000K 5000K 6500K RD - Red AM - Amber GR - Green BL - Blue RB - Royal Blue	5°x5° 8°x8° 10°x10° 30°x30° 60°x60° 80°x80° 100°x100° 5°x10° 5°x30° 5°x60° 10°x30° 10°x60° 10°x90° 20°x60° 30°x60°	15°x15°x20°L 15°x15°x20°R 20°x60°x8°L 20°x60°x8°R	0 - No Tilt	NL - No Louver ILH - Internal Louver, Horizontal ILV - Internal Louver, Vertical IHL - Internal Honeycomb Louver	
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- 1. Custom; consult factory, some restrictions apply
- Other distributions available; Consult factory.

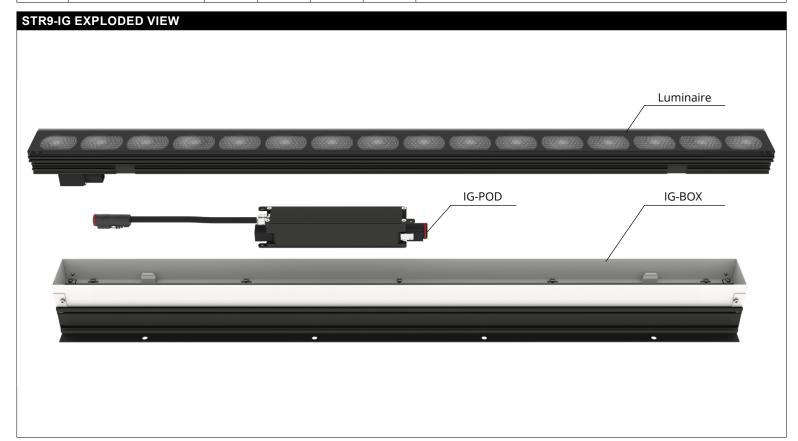






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IG-BOX								
PART NUMBER	DESCRIPTION	LENGTH	WIDTH	HEIGHT	WEIGHT			
G00762	IG-BOX-TL-600	598 mm 23.54in			3.7kg 8.2lbs	107.5		
G00647	IG-BOX-TL-900	898 mm 35.35in	127mm	107.5mm	5.5kg 12.1lbs	107.5		
G00648	IG-BOX-TL-1200	1198 mm 47.47in	5.0in	4.23in	7.3kg 16.09lbs	107.5		
G00649	IG-BOX-TL-1500	1498 mm 58.98in			9.1kg 20.0lbs	107.5		
IG-POD								
PART NUMBER	DESCRIPTION	LENGTH	WIDTH	HEIGHT	WEIGHT			
G20462	IG-POD-50W-120~277VAC				1.04 kg 2.29 lbs	284.3 46.0		
G20463	IG-POD-100W-120~277VAC	284.3 mm 11.19 in	46 mm 1.81 in	53.8 mm 2.11 in	1.2 kg 2.65 lbs	53.8		
G20482	IG-POD, ELV				0.9 kg 1.98 lbs			









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PRODUCT SPECIFICATIONS								
Nominal Length			600	900	1200	1500		
		Nominal Wattage						
Electrical	Power Consumption for 48VDC Input	3W/ft 5W/ft 10W/ft 15W/ft	6W 10W 20W 30W	9W 15W 30W 45W	12W 20W 40W 60W	15W 25W 50W 75W		
	Power Consumption¹ for 120-277VAC Input	3W/ft 5W/ft 10W/ft 15W/ft	8.9W 13.1W 23.7W 34.5W	12.1W 18.5W 34.5W 51.2W	15.3W 23.7W 45.9W 69W	18.5W 29W 56.8W 85.2W		
	Light Source	6 x High Power LEI	Os per 300mm (1ft)					
	CRI	>80						
Optical	Lumen Output (typical) ^{2,3}	3W 5W 10W 15W	480 lm 794 lm 1,560 lm 2,238 lm	720 lm 1,191 lm 2,340 lm 3,357 lm	960 lm 1,588 lm 3,120 lm 4,476 lm	1,200 lm 1,985 lm 3,900 lm 5,595 lm		
	Projected Lumen Maintenance	L70 > 65,000 hrs @	t _a = 50°C (122°F)		•			
	Control Protocol	DMX, DALI or 0-10	DMX, DALI or 0-10V control through GVA Power-Data Equipment					
Control	Control Protocol for ELV and AC	DMX DALI 0-10V	300mm (1ft) resolutions Each run is 1 address					
	Luminaire	1.1kg 2.2kg 3.3kg 4.4kg 2.43lbs 4.85lbs 7.27lbs 9.70lbs Innovative and time proven UNIBODY™ design – machined from a solid aluminum extrusion to provide a hermetically sealed luminaire						
Physical	IG-BOX	IG-BOX			Stainless steel top frame fastened to aluminum channel			
	IG-POD		e proven UNIBODY™ e a hermetically seale		from a solid aluminum			
	Corrosion Resistance			Assembled with parts made of corrosion resistant stainless steel and aluminum coated with multiple corrosion resistant layers				
	Rated Operation Temperature	Rated Operation Temperature			-40°C to +50°C (-22°F to 122°F)			
Temperature Ranges	Minimum Starting Temperature		-30°C (-22°F)					
	Storage Temperature		-40°C to +85°C (-22°F to 185°F)					
	IES Classifications		Class 1 LED Luminaire					
		IKIO C C CULUS ROHS (C136.31-2010						
Certification & Safety	Certifications		QPS (US Field Evaluation) or ETL (Special Electrical Equipment Inspection) where applicate CE Certified RoHS Compliant Constructed to meet requirements outlined in UL1598 & IEC60598 Meets ANSI C136.31, 3G Vibration standard for bridge and overpass applicate			60598		
	Environment		Dry, damp, or wet locations , 0-100% humidity, IP66					

^{1.} Measured for 120VAC input voltage

output

3. Please consult factory for most recent photometric data

5. Please consult i	actory for most recent p	notometric data			
MAXIMUM	I RUN LENGTH	IS¹			
		3W	5W	10W	15W
ELV		51 m	31 m	15 m	10 m
120VAC	600	89 m	67 m	40 m	29 m
	900	133 m	88 m	46 m	32 m
	1200	140 m	91 m	47 m	30 m
	1500	147 m	92 m	47 m	30 m
	600	142 m	118 m	87 m	62 m
0.40\/4.0	900	197 m	160 m	94 m	64 m
240VAC	1200	234 m	175 m	96 m	63 m
	1500	266 m	181 m	97 m	64 m
277VAC ²	600	10 m	10 m	10 m	10 m
	900	16 m	16 m	16 m	16 m
	1200	21 m	21 m	21 m	21 m
	1500	27 m	27 m	27 m	27 m

^{2.} Data provided for 4000K, with 10 Degree beam angles. Warmer color temperatures typically have a lower lumen

These figures are subject to change due to further development and innovations of LED light sources

Ratings are for 30°C, de-rating will be used for higher ambient temperatures. Contact factory for applications support.

1. Run lengths may vary depenending on luminaire length combination chosen. Please consult factory for layout configuration. Values calculated for 3 m leader cable and 0.3 m distance between luminaires.

2. Type D breaker required for 277VAC



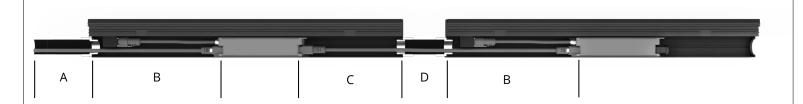




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LEADER AND JUMPER CABLE SELECTION GUIDE



- A Cable length from Power Data Equipment to input side of IG-BOX
- B Cable length from input side of IG-BOX to input of IG-POD
- C Cable length from output of IG-POD to output side of IG-BOX
- D Cable length required for gap between STR9-IG assemblies

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STR9-IG NOMINAL LENGTH	В	A								
600										
900	0.43m	DETERMINED BY ON-SITE REQUIREMENT								
1200	17 in									
1500										

REQUIRED LEADER CABLE LENGTH = A + B Round up to the next standard size. Refer to page 5.

Leader Cable Selection Example:

A = 5 m (value determined by on-site requirement)

B = 0.43m (fixed value from Leader Cable Selection table)

Calculations:

 $\begin{aligned} & L_{\text{(Leader Cable)}} = B + A \\ & L_{\text{(Leader Cable)}} = 0.43 \text{ m} + 5 \text{ m} \\ & L_{\text{(Leader Cable)}} = 5.43 \text{ m} \end{aligned}$

Round up to next standard size. Refer to page 5.

 $L_{\text{(Leader Cable)}} = 6.0 \text{ m}$

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JUNEER	U-ABI		SELECTION

JUMPER CABLE LENGTH SELECTION									
STR9-IG NOMINAL LENGTH	C + B	D							
600	0.43 m 17 in								
900	0.73 m 28 3/4 in	DETERMINED BY ON-SITE REQUIREMENT							
1200	1.03 m 40 9/16 in	DETERMINED BY ON-SITE REQUIREMENT							
1500	1.33 m 52 3/8 in								

REQUIRED JUMPER CABLE LENGTH = C + B + D Round up to the next standard size. Refer to page 5.

Jumper Cable Selection Example:

Input values:

C + B = 1.03 m (1200 mm STR9-IG used)

D = 1.6 m (value determined by on-site requirement)

Calculations:

 $\begin{aligned} & L_{\text{(Jumper Cable)}} = C + B + D \\ & L_{\text{(Jumper Cable)}} = 1.03 \text{ m} + 1.6 \text{ m} \\ & L_{\text{(Jumper Cable)}} = 2.63 \text{ m} \end{aligned}$

Round up to next standard size. Refer to page 5.

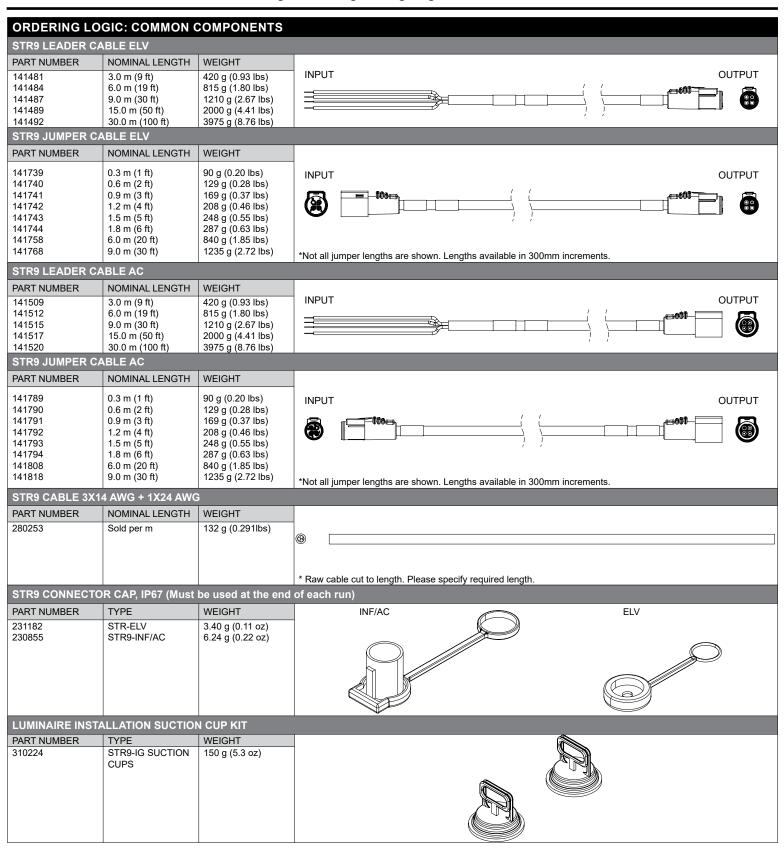
L_(Jumper Cable) = 3.0 m







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OPTIONAL ACC	ESSORIES		
TYPE	COLOR	WEIGHT (Per 300mm)	_
ILH - Internal Louver, Horizontal	BLACK	10 g 0.35 oz	*Please select option in the specification logic table if required. Item is factory installed only.
ILV - Internal Louver, Vertical	BLACK	10 g 0.35 oz	
IHL - Internal Honeycomb Louver	BLACK	20 g 0.71 oz	*Please select option in the specification logic table if required. Item is factory installed only. *Please select option in the specification logic table if required. Item is factory installed only.







INGROUND M	onochromatic Lin	ear Wall	PRODUCT SPECIFICATION SHEET						
ORDERING I	LOGIC: POWER S	SUPPLIE	S & POWE	R DATA EQU	IPMENT				
ELV POWER DATA BOXES									
FAMILY	OUTPUT VOLTAGE	POWER	(Watts)	CONTROL INPUT	CONTROL OUTPUT	INPUT VOLTAGE	CONSTRUCTION		
PS	ELV (48V)	240W 320W	480W 640W	-	-	120~277V AC	IP66 IP30		
PDB	ELV (48V)	240W 320W	480W 640W	DMX	48V POWER & ZH DATA	120~277V AC	IP66 IP30		
POWER-DATA CONVERTORS IP66									
PART NUMBER	DESCRIPTION		LENGTH	WIDTH	HEIGHT	WEIGHT			
G20510 G20511	PDC-AC-120~240-1DMX PDC-AC-120~240-DALI/0~10V		260 mm 10.26 in	160 mm 6.30 in	91 mm 3.58 in	3.35 kg 7.39 lbs	91.0		
G20250 G20521	PDC-AC-277-1DMX PDC-AC-277-DALI/0~	10V	160 mm 6.30 in	160 mm 6.30 in	91 mm 3.58 in	2.06 kg 4.54 lbs			
POWER-DATA	CONVERTORS IP30)				_			
PART NUMBER	DESCRIPTION		LENGTH	WIDTH	HEIGHT	WEIGHT			
G20512 G20513	PDC-AC-120~240-1DI PDC-AC-120~240-DAI		260 mm 10.26 in	160 mm 6.30 in	91 mm 3.5 8 in	3.35 kg 7.39 lbs	89.8 — 159.5 —		
G20252 G20523	PDC-AC-277-1DMX PDC-AC-277-DALI/0~10V		160 mm 6.30 in	160 mm 6.30 in	91 mm 3.58 in	2.06 kg 4.54 lbs	(EC) (EC)		







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