





INGROUND Dynamic White Linear Wall Washing and Grazing LED Lighting

PRODUCT SPECIFICATION SHEET



DATE:		
TYPE:		
COMPANY	î:	
PROJECT		
74 mm 2.9 in	(500 900 11200 11400 (505 gm) (1400 m)	
77 mm 3.03 in 18 mm 2.2 in		

FEATURES

Lighting Performance:

- Up to 3514 lumens/meter (1071 lumens/foot)
- Any color temperature from 2200K to 6000K using a 4 in 1 package (2200K, 3000K, 4000K, 6000K)
- COLOR-AMP® technology allows up to three times higher light output in specific colors
- Outstanding color mixing (no striations or colour separation)
- · Homogenous 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 > 65,000hrs @ t_a = 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	300 ¹ 600 900 1200 1500	TL - Trimless	10W 15W 20W	DWT	10°x10°¹ 12°x 12° 15°x 15° 30°x30° 60°x60° 80°x80° 10°x30° 10°x60° 10°x90° 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
			PRO	DUCT CONFIG	JRATION		

Custom; consult factory, some restrictions apply

^{2.} Other distributions available; Consult factory.

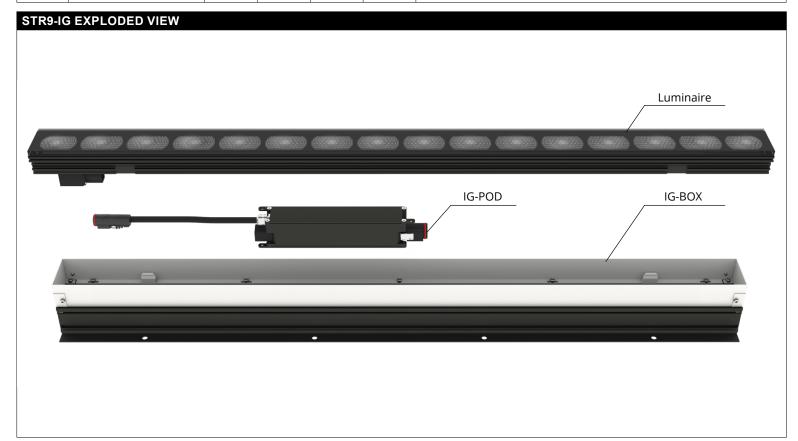






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IG-BOX							
PART NUMBER	DESCRIPTION	LENGTH	WIDTH	HEIGHT	WEIGHT		
G00762	IG-BOX-TL-600	598 mm 23.54in			3.7kg 8.2lbs	107.5	
G00647	IG-BOX-TL-900	898 mm 35.35in	127mm	107.5mm	5.5kg 12.1lbs	107.5	
G00648	IG-BOX-TL-1200	1198 mm 47.47in	5.0in 4.23in	7.3k	7.3kg	7.3kg 16.09lbs	107.5
G00649	IG-BOX-TL-1500	1498 mm 58.98in				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	
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	53.8	
G20482	IG-POD, ELV				0.9 kg 1.98 lbs		









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	TIONS	_						
Nominal Length			600	900	1200	1500		
		Nominal Wattage						
	Power Consumption	10W/ft	20W	30W	40W	50W		
	for 48VDC Input	15W/ft	30W	45W	60W	75W		
Electrical	101 40VBO IIIput	20W/ft	40W	60W	75W	100W		
	Power Consumption	10W/ft	23.7W	34.5W	45.9W	56.8W		
	for 120-277VAC Input	15W/ft	34.6W	51.2W	69W	85.2W		
	· ·	20W/ft	44.5W	65W	89W	110W		
	Light Source	4 x High Power 4 in						
		White (2200K)	501 lm	751 lm	1,002 lm	1,252 lm		
	COLOR-AMP™ 10W	White (3000K)	826 lm	1,240 lm	1,653 lm	2,066 lm		
	Lumen Output (typical) ^{1,2}	White (4000K)	961 lm	1,441 lm	1,921 lm	2,402 lm		
		White (6000K) All on	910 lm 1,215 lm	1,364 lm	1,819 lm	2,274 lm		
				1,823 lm	2,431 lm	3,039 lm		
		White (2200K)	632 lm	949 lm	1,265 lm	1,581 lm		
	COLOR-AMP™ 15W	White (3000K)	1,043 lm	1,565 lm	2,087 lm	2,609 lm		
Optical	Lumen Output (typical) ^{1,2}	White (4000K)	1,213 lm	1,820 lm	2,426 lm	3,033 lm 2,871 lm		
		White (6000K) All on	1,149 lm 1,730 lm	1,723 lm 2,595 lm	2,297 lm 3,460 lm	4,325 lm		
		White (2200K)	686 lm	1,029 lm	1,372 lm	1,715 lm		
		White (3000K)	1,132 lm	1,698 lm	2,264 lm	2,830 lm		
	COLOR-AMP™ 20W	White (4000K)	1,316 lm	1,974 lm	2,632 lm	3,290 lm		
	Lumen Output (typical) ^{1,2}	White (6000K)	1,246 lm	1,869 lm	2,492 lm	3,115 lm		
		All on	2,142 lm	3,213 lm	4,284 lm	5,355 lm		
	Projected Lumen Maintenance	t _a = 50°C (122°F)	· ·	,	,			
Control			h GVA's Power-Data Equipment, 300mm (1ft) resolutions					
			1.1kg	2.2kg	3.3kg	4.4kg		
					7.27lbs	9.70lbs		
	Luminaire		Innovative and time proven UNIBODY™ design – machined from a solid aluminum					
			extrusion to provide a hermetically sealed luminaire					
Physical	IG-BOX		Stainless steel to	frame fastened to	aluminum channel			
	IG-POD		Innovative and tin	ne proven UNIBODY	™ design – machin	ed from a solid aluminu		
	IG-FOD		extrusion to provide a hermetically sealed enclosure					
	Corrosion Resistance		Assembled with parts made of corrosion resistant stainless steel and aluminum					
	COITOSIOTI Nesistance		coated with multiple corrosion resistant layers					
	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 E CUL US ROHS (ANS)			
Certification & Safety	Certifications	QPS (US Field Evaluation) or ETL (Special Electrical Equipment Inspection) where applicable CE Certified RoHS Compliant Constructed to meet requirements outlined in UL1598 & IEC60598						
			Meets ANSI C136.31, 3G Vibration standard for bridge and overpass applications Dry, damp, or wet locations, 0-100% humidity, IP66					

Measurement data provided for 10 degree beam angle fixtures

Please consult factory for most recent photometric data

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

MAXIMUM RUN LENGTHS ¹									
	10W	15W	20W		10W	15W	20W		
ELV	15 m	10 m	7 m		49 ft	33 ft	23 ft		
120VAC	45 m	30 m	22 m		148 ft	100 ft	75 ft		
240VAC	87 m	62 m	47 m		288 ft	204 ft	156 ft		
277VAC ²	10 m	10 m	10 m		36 ft	36 ft	36 ft		

 $Ratings \ are \ for \ 30^{\circ}C, \ de-rating \ will \ be \ used \ for \ higher \ ambient \ temperatures. \ Contact \ factory \ for \ applications \ support.$

2.Type D breaker required for 277VAC.

^{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.



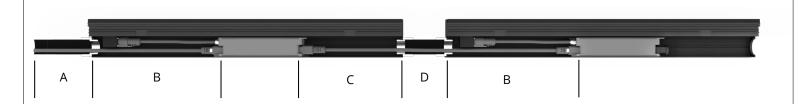




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LEADER AND JUMPER CABLE SELECTION GUIDE



- 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

EADER CABLE LENGTH SELECTION	ı
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STR9-IG NOMINAL LENGTH	В	A							
600									
900	0.43m	DETERMINED BY ON-SITE REQUIREMENT							
1200	17 in	DETERMINED BY ON-SITE REQUIREMENT							
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.

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

JUMPER CABLE LENGTH	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 CITE DECUMPANT					
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.

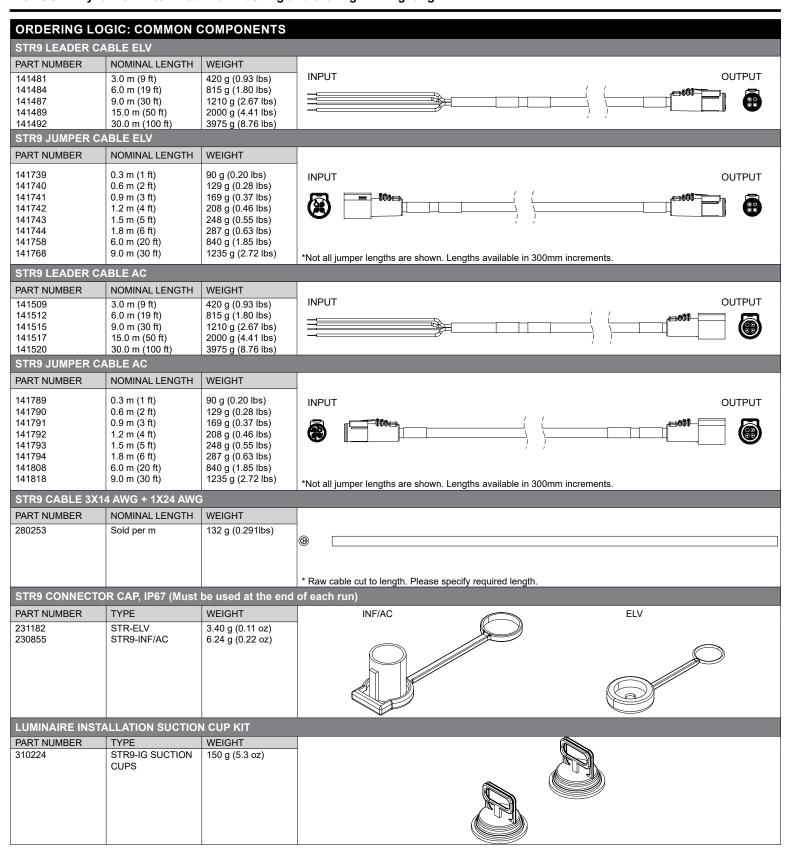
L_(Jumper Cable) = 3.0 m







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OPTIONAL ACC	ESSORIES	
TYPE	COLOR	WEIGHT (Per 300mm)
ILH - Internal Louver, Horizontal	BLACK	10 g 0.35 oz
ILV - Internal Louver, Vertical	BLACK	10 g 0.35 oz
IHL - Internal Honeycomb Louver	BLACK	20 g 0.71 oz







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ORDERING	ORDERING LOGIC: POWER SUPPLIES & POWER DATA EQUIPMENT								
ELV POWER D	ATA BOXES								
FAMILY	OUTPUT VOLTAGE	POWER (Watts)	CONTROL INPUT	CONTROL OUTPUT	INPUT VOLTAGE	CONSTRUCTION		
PDB	ELV (48V)	240W	480W	DMX	48V POWER & ZH DATA	120~277V AC	IP66		
	320W 640W		640W				IP30		
POWER-DATA CONVERTORS IP66									
PART NUMBER	DESCRIPTION		LENGTH	WIDTH	HEIGHT	WEIGHT			
G20510 G20511	PDC-AC-120~240-1DM PDC-AC-120~240-DAL		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/0~1	0 ∨	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-120~240-1DM PDC-AC-120~240-DAL		260 mm 10.26 in	160 mm 6.30 in	91 mm 3.5 8 in	3.35 kg 7.39 lbs	89.5 — 159.9 —		
G20252 G20523	PDC-AC-277-1DMX PDC-AC-277-DALI/0~1	0V	160 mm 6.30 in	160 mm 6.30 in	91 mm 3.58 in	2.06 kg 4.54 lbs			







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