

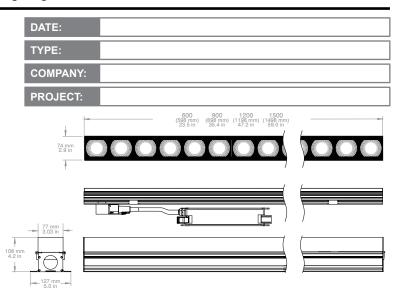




## INGROUND Color Changing Linear Wall Washing and Grazing LED Lighting

PRODUCT SPECIFICATION SHEET





## **FEATURES**

## **Lighting Performance:**

- Up to 2040 lumens/meter (626 lumens/foot)
- 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
- Color match with FL Series

### **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 = 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° 600 900 1200 1500	TL - Trimless	10W 15W 20W	RGB RGBA RGBW30K	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		

- 1. Custom; consult factory, some restrictions apply 2. Other distributions available; Consult factory.

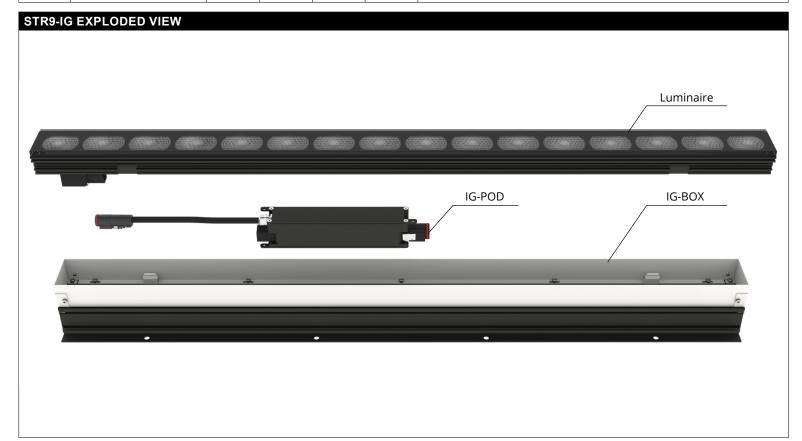






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IG-BOX						
PART NUMBER	DESCRIPTION	LENGTH	WIDTH	HEIGHT	WEIGHT	
G00762	IG-BOX-TL-600	598 mm 23.54in			3.7kg 8.2lbs	107.5
G00647	IG-BOX-TL-900	898 mm 35.35in	127mm	107.5mm	5.5kg 12.1lbs	107.5
G00648	IG-BOX-TL-1200	1198 mm 47.47in	5.0in	4.23in	7.3kg 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 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 SPECIFICA	ATIONS							
Nominal Length			600	900	1200	1500		
		Nominal Wattage						
	D 0 "	10W/ft	20W	30W	40W	50W		
	Power Consumption	15W/ft	30W	45W	60W	75W		
Electrical	for 48VDC Input	20W/ft	40W	60W	75W	100W		
	B 0 "	10W/ft	23.7W	34.5W	45.9W	56.8W		
	Power Consumption	15W/ft	34.6W	51.2W	69W	85.2W		
	for 120-277VAC Input	20W/ft	44.5W	65W	89W	110W		
	Light Source	4 x High Power 4 in	1 LEDs per 300mm	n (1ft)				
		Red	438 lm	657 lm	876 lm	1095lm		
		Green	572 lm	858 lm	1,144 lm	1430lm		
		Blue	198 lm	297 lm	396 lm	495lm		
	COLOR-AMP™ 10W	Amber	338 lm	507 lm	676 lm	845lm		
	Lumen Output (typical) <sup>1,2</sup>	White (3000K)	784 lm	1,176 lm	1,568 lm	1960lm		
		All on RGB	542 lm	813 lm	1,084 lm	1355lm		
		All on RGBA	552 lm	828 lm	1,104 lm	1380lm		
		All on RGBW30K	690 lm	1,035 lm	1,380 lm	1725lm		
		Red	456 lm	684 lm	912 lm	1140lm		
		Green	736 lm	1,104 lm	1,472 lm	1840lm		
		Blue	268 lm	402 lm	536 lm	670lm		
	COLOR-AMP™ 15W	Amber	378 lm	567 lm	756 lm	945lm		
Optical	Lumen Output (typical) <sup>1,2</sup>	White (3000K)	990 lm	1,485 lm	1,980 lm	2475lm		
	Eumen Output (typical)	All on RGB	742 lm	1,113 lm	1,484 lm	1855lm		
		All on RGBA	770 lm	1,115 lm	1,540 lm	1925lm		
		All on RGBW30K	982 lm	1,473 lm	1,964 lm	2455lm		
					-			
		Red	642 lm	963 lm	1,284 lm	1605lm		
		Green	798 lm	1,197 lm	1,596 lm	1995lm		
	001 00 444074 00144	Blue	278 lm	417 lm	556 lm	695lm		
	COLOR-AMP™ 20W	Amber	390 lm	585 lm	780 lm	975lm		
	Lumen Output (typical) <sup>1,2</sup>	White (3000K)	1,074 lm	1,611 lm	2,148 lm	2685lm		
		All on RGB	884 lm	1,326 lm	1,768 lm	2210lm		
		All on RGBA	894 lm	1,341 lm	1,788 lm	2235lm		
		All on RGBW30K	1,216 lm	1,824 lm	2,432 lm	3040lm		
	Projected Lumen Maintenance	L70 > 65,000 hrs @						
Control		DMX control throug	gh GVA's Power-Data Equipment, 300mm (1ft) resolutions					
			1.1kg 2.43lbs	2.2kg 4.85lbs	3.3kg 7.27lbs	4.4kg 9.70lbs		
	Luminaire		Innovative and time proven UNIBODY™ design – machined from a solid aluminu					
			extrusion to provide a hermetically sealed luminaire					
Physical	IG-BOX		Stainless steel top frame fastened to aluminum channel					
rilysical	IO-BOX		Innovative and time proven UNIBODY™ design – machined from a solid aluminu					
	IG-POD		extrusion to provide a hermetically sealed enclosure					
	Corrosion Resistance		Assembled with parts made of corrosion resistant stainless steel and aluminum coated with multiple corrosion resistant layers					
	Detect On eartists Terror eartists				ani 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					
			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					
Certification & Safety	Certifications							
			INICE IS ANOTO I ST	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 <sup>1</sup>										
	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 <sup>2</sup>	10 m	10 m	10 m		36 ft	36 ft	36 ft			

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.



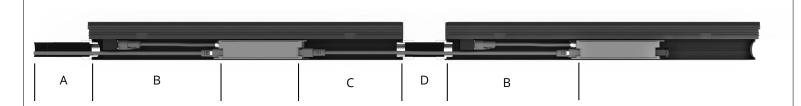




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## **LEADER AND JUMPER CABLE SELECTION GUIDE**



- 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.

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

	JUMPER CABI	E I ENGTH	SELECTION
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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					
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.

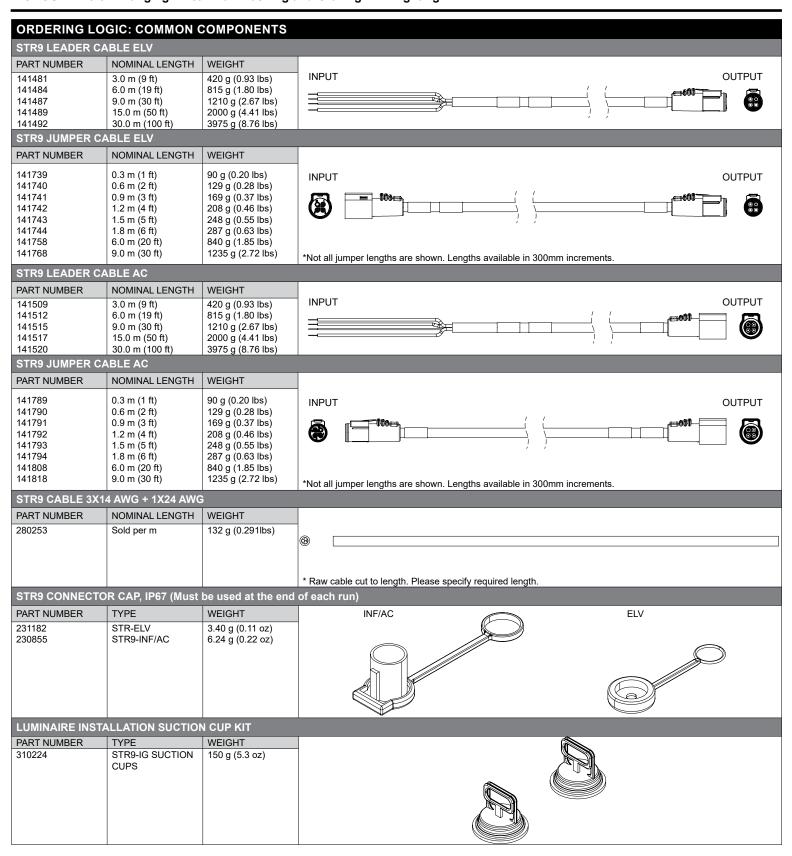
 $L_{(Jumper Cable)} = 3.0 \text{ m}$ 







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OPTIONAL ACCI	ESSORIES		
TYPE	COLOR	WEIGHT (Per 300mm)	
<b>ILH</b> - 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.







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ORDERING I	LOGIC: POWER S	UPPLIE	S & POWER	DATA EQU	IPMENT		
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				IP30
AC POWER-DA	ATA CONVERTORS I	P66					
PART NUMBER	DESCRIPTION	1 00	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	280.0
G20250 G20521	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	
AC POWER-DA	ATA CONVERTORS I	P30					
PART NUMBER	DESCRIPTION	·	LENGTH	WIDTH	HEIGHT	WEIGHT	
G20512 G20513	PDC-AC-120~240-1DN 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	80 80 2850 0 2850
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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