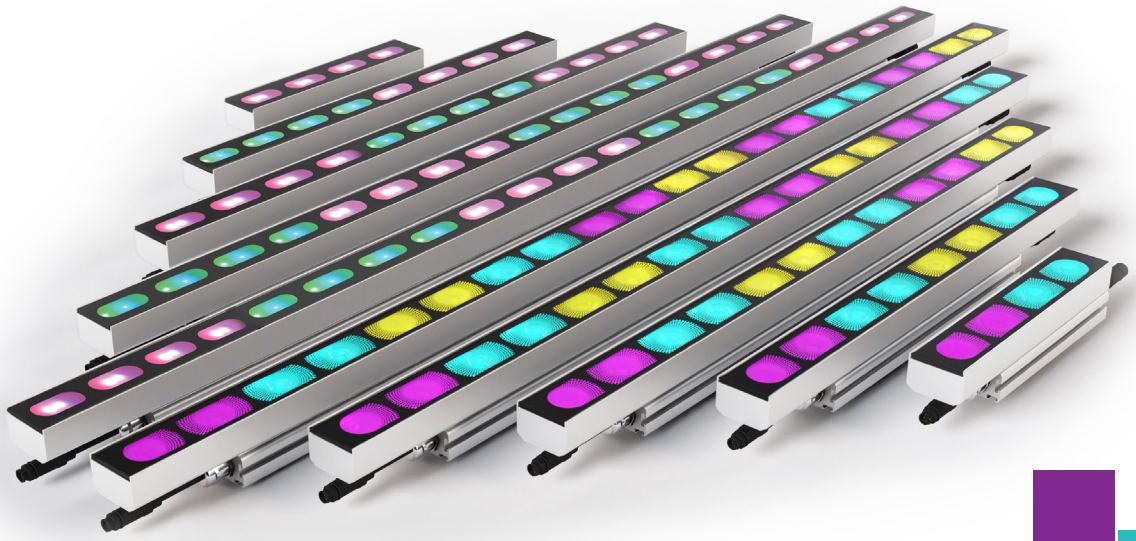
STR9®GEN4 PRELIMINARY COLOR CHANGING

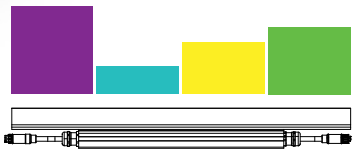
STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

DATE:	
TYPE:	
COMPANY:	
PROJECT:	

DESCRIPTION

STR9® GEN4 COLOR CHANGING is the latest generation linear luminaire in the STR product series. Built on the award-winning COLOR-STREAM® platform, STR9® delivers exceptional performance and outstanding flexibility for architectural wall washing and grazing applications. Capable of communication speeds up to 16 times faster than DMX, liquid-smooth dimming, pixel resolution down to 150 mm and featuring INFINITY® technology, STR9® GEN4 COLOR CHANGING can be implemented for circuit lengths of up to 260 meters (851 ft).





Pixel Resolution Down to 150 mm (6 in)[2]

KEY FEATURES

- Compact size: only 57 mm (2.24 in) width x 70.8 mm (2.79 in) height
- High power luminaire up to 20 W/300 mm (1 ft)
- Up to 750 lumens per 300 mm/1 ft
- Built-In GVA's COLOR-AMP® Technology with accurate color control
- Down to 150 mm (6 in) pixel resolution
- COLOR-STREAM® platform delivers high speed communication (6.25 Mbps), up to 120 frames per second refresh rate, and 12-bit dimming resolution
- Power and Data through-wiring for end-to-end connection via sealed push lock connectors
- Up to 260 meters (851 ft) lighting circuit enabled by GVA's INFINITY® technology[1]
- Up to 100 meter (328 ft) leader or jumper cables
- LED pitch is maintained between luminaires to eliminate dark spots
- 10° minimum beam angle (FWHM)
- Operating temperatures: -40°C (- 40°F) to + 50°C (122°F)
- Inherent progressive thermal protection
- 5 year limited warranty

OPTIONS

- 300 mm (1 ft), 600 mm (2 ft), 900 mm (3 ft), 1200 mm (4 ft), and 1500 mm (5 ft) nominal lengths
- Clear Matte or Black Matte anodized, custom finishes available upon request
- Color LEDs, RGB(W) or RGBA color changing, White LED available in: 2700K, 3000K, 4000K, 5000K, 6500K (3 step binning)
- Color mixing available in IM - Inner Mixing or 4L4 - 4 linear clusters of 4 LED
- Impressively wide range of symmetrical and elliptical optical distributions (15 options)
- Internal micro louvers or external louvers for glare control
- 5 W, 10 W, 15 W or 20 W per 300 mm (1 ft)
- 300 mm (12 in) or 150 mm (6 in) pixel resolution
- INF (380 V DC) or AC (277 V AC, 240 V AC, 230 V AC, 208 V AC, 120 V AC, and 100 V AC) input
- Diverse range of communication protocols via GVA's Power-Data Converter PDC-G5: Art-Net 4, sACN, DMX-512A.
- IP66

1. Consult factory for details. See page 7-8
2. Luminaire shown is an STR9-GEN4-600 configuration

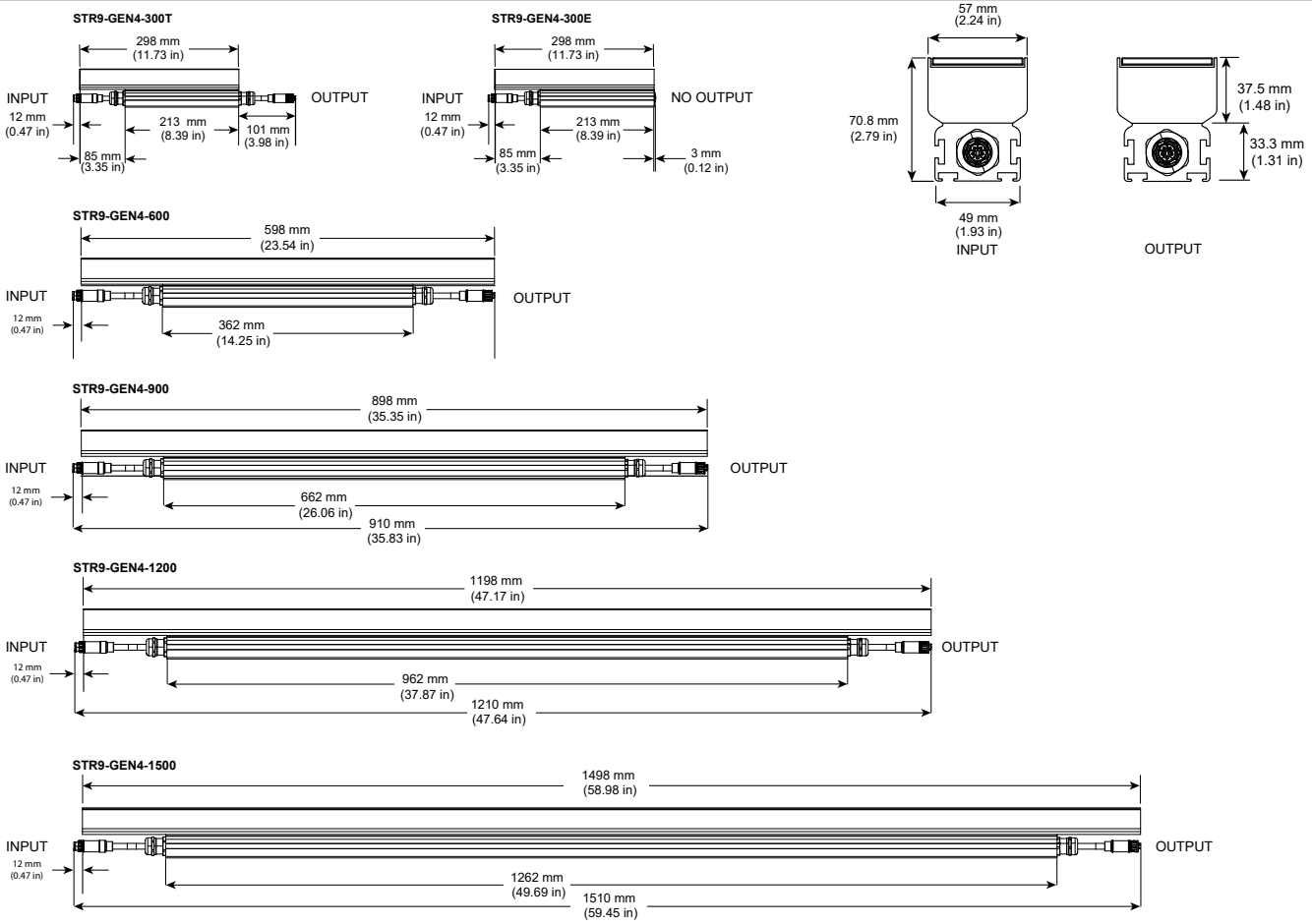
STR9®GEN4 PRELIMINARY COLOR CHANGING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

MECHANICAL FEATURES

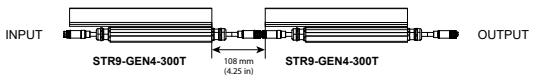
- Rugged construction – extruded anodized aluminum and optically clear tempered glass housing (IK06[1])
- Designed to meet 3G ANSI C136.31-2010 vibration standard for bridge and overpass applications
- Through-wiring for end-to-end connection via sealed push lock connectors
- Diverse offering of adjustable brackets
- Wide range of operating temperatures: -40°C to +50°C (-40°F to +122°F)

LENGTH OPTIONS

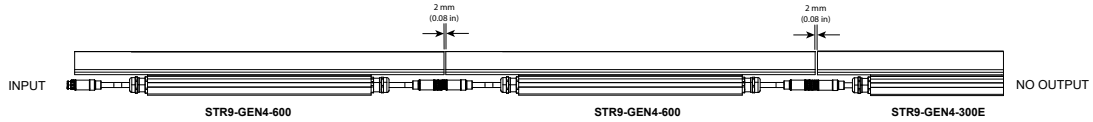


INSTALLATION NOTES

Example of STR9-GEN4 end-to-end installations, the optical pitch is not maintained.



Example of STR9-GEN4 end-of-line installations, the optical pitch is maintained.



1. Higher IK configurations available, consult factory for details

STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM

GVA LIGHTING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

PRODUCT SPECIFICATION

		MIN	NOMINAL	MAX
VOLTAGE	INPUT VOLTAGE, INF	300 V DC	380 V DC	400 V DC
	INPUT VOLTAGE, 277 V AC	249 V AC	277 V AC	305 V AC
	INPUT VOLTAGE, 230 V AC	198 V AC	230 V AC	264 V AC
	INPUT VOLTAGE, 120 V AC	90 V AC	120 V AC	132 V AC

		NOMINAL POWER PER 300 MM LENGTH	NOMINAL LENGTH (MM)				
			300T/300E	600	900	1200	1500
POWER	POWER CONSUMPTION		INF/AC				
		5 W	5.5 W	11 W	16.5 W	22 W	27.5 W
		10 W	11 W	22 W	33.0 W	44 W	55 W
		15 W	16.5 W	33 W	49.5 W	66 W	82.5 W
		20 W	22 W	44 W	66 W	88 W	110 W

CURRENT	RATED CURRENT PER CIRCUIT	12 A
PROTECTION	CIRCUIT LEVEL SURGE PROTECTION[1]	6 KV/3 KA standard protection level, with option to increase to 12 KV/6 KA or 20 KV/10 KA
DATA	INPUT PROTOCOL	GVA's COLOR-STREAM®
CONTROL	CONTROL INTERFACE	Art-Net 4, sACN, DMX-512A or 0~10V control via GVA Power-Data Equipment (PDC-GEN5)
ENVIRONMENT	WORKING TEMPERATURE	-40°C ~ +50°C / -40°F ~ 122°F
	STORAGE TEMPERATURE & HUMIDITY	-40°C ~ +80°C (-40°F ~ 176°F), 0%-60% RH (non-condensing)
	STORAGE CONDITIONS	Product to be stored in non-saline, protected location above water and free of harmful gases containing sulphur and other corrosive elements
	VIBRATION	Designed to meet ANSI C136.31-2018 to withstand intense vibration environments of bridges and overpasses (Test Level 2, 3G or 29.4 m/s²)
	THERMAL PROTECTION	>75°C internal temperature → gentle foldback, derating LED output up to 15%
		>90°C internal temperature → thermal shutdown, LED output disabled
		<70°C during thermal shutdown → LED output re-enabled
		*Communication is maintained across all three regions, allowing remote status monitoring

1. In combination with PDC-GEN5

STR9®GEN4 PRELIMINARY COLOR CHANGING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

PRODUCT SPECIFICATION

CERTIFICATION & SAFETY	**IEC CLASSIFICATIONS**	AC/INF - Class I					
	ISO CERTIFICATIONS	ISO Certified Company for **9001:2015 and 14001:2015**					
	CERTIFICATIONS	CE, QPS (US Field Evaluation) or ETL (Special Electric Equipment Inspection), IP66					
	SAFETY STANDARDS[1]	UL 8750, CAN/CSA-C22.2 No. 250.13, IEC/EN 60598-2-1					
	EMC EMISSION[1]	CISPR-15 Edition 9.0 2018, FCC Part 15 Class B					
	EMC IMMUNITY[2]	Compliance to IEC 61547, IEC 61000-4-2 Class 4², 61000-4-3 Level 3², 61000-4-4 Level 4², 61000-4-5 Level 4², 61000-4-6, 61000-4-8					
PHYSICAL	**HOUSING**	Anodized extruded aluminum body and machined endcaps, optically clear tempered glass					
	DIMENSIONS	**NOMINAL LENGTH (MM)**	**300T/300E**	**600**	**900**	**1200**	**1500**
		LENGTH	298 mm (11.7 in)	598 mm (23.6 in)	898 mm (35.4 in)	1198 mm (47.2 in)	1498 mm (59.0 in)
		WIDTH X HEIGHT	57 mm x 70.8 mm (2.24 in x 2.79 in)				
	WEIGHT, NET, WITHOUT BRACKETS OR ACCESSORIES		1.4 kg (3.09 lbs)	2.8 kg (6.17 lbs)	4.2 kg (9.26 lbs)	6 kg (13.23 lbs)	7.5 kg (16.53 lbs)
MANUFACTURING/ ORIGIN	Designed and manufactured in Canada by GVA Lighting, Inc. ISO Certified Company for 9001:2015 and 14001:2015 - Quality Management System and Environmental Management System						

1. Designed to meet listed safety standards
2. In combination with PDC-GEN5

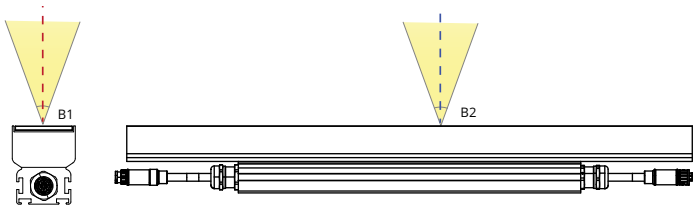
STR9®GEN4 PRELIMINARY COLOR CHANGING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

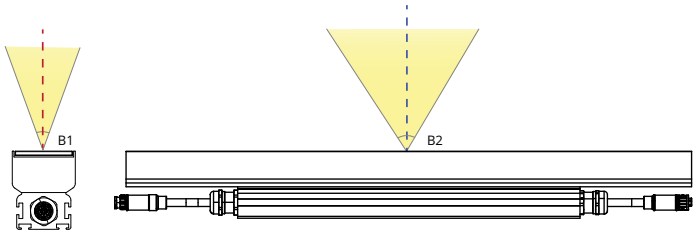
LIGHTING PERFORMANCE

- Up to 750 lumens per 300 mm/1 ft
- Pixel resolution options: 300 mm or 150 mm per 300 mm/1 ft
- Available in two color-mixing optics configurations: IM (Inner Mixing) and 4L4 (cluster of four LEDs in line)
- IM available in RGBW 3000K or RGBA
- 4L4 (Red+Green+Blue+White) color changing configurations (where White can be selected between 2700K, 3000K, 4000K , 5000K and 6500K), as well as RGB and RGBA (RGB + Amber)
- 10° x 10°, 15° x 15°, 20° x 20°, 30° x 30°, 60° x 60°, 80° x 80°, 100° x 100°, 10° x 30°, 10° x 60°, 10° x 90°, 30° x 60°, 20° x 20° x 20° Right , 20° x 20° x 20° Left , 20° x 60° x 8° Right, 20° x 60° x 8° Left optical distributions
- LED pitch is maintained between luminaires to eliminate dark spots
- GVA's COLOR-AMP® technology achieves up to 3x higher light output in specific colors by utilizing all of the available power of a fixture
- Cool beam, no heat (IR) or UV generated from light source
- Projected LED lifetime L70 B50: 100,000hrs @ Ta 30°C / 86°F

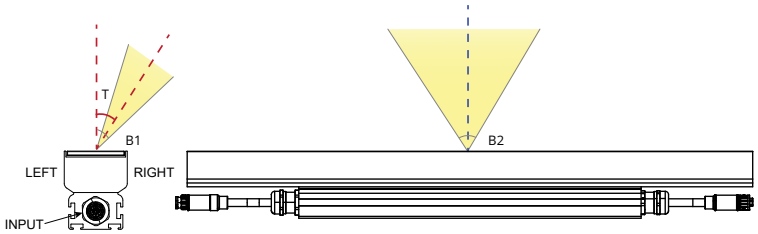
LIGHT DISTRIBUTION



Symmetrical beam angle: B1 x B2
Example : 30°x 30°



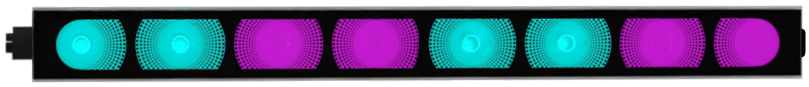
Elliptical beam angle: B1 x B2
Example : 30°x 60°



Asymmetrical beam angle**:** B1 x B2 x T (Left or Right Tilt)
Example **B08R**: 20°x 60°x 8°- Right Tilt from input side

COLOR MIXING OPTICS

IM



IM
RGBW

4L4

4L4
RGBW

STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM

GVA LIGHTING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

LUMINOUS FLUX PER 300 MM (1 FT)[1]

IM	NOMINAL WATTAGE/FT			
	5W/FT	10W/FT	15W/FT	20W/FT
RED				
GREEN				
BLUE				
WHITE (3000K)				
ALL ON				

4L4	NOMINAL WATTAGE/FT			
	5W/FT	10W/FT	15W/FT	20W/FT
RED				
GREEN				
BLUE				
WHITE (3000K)				
ALL ON				

COLOR LEDs WAVELENGTH[2]

COLOR- IM	DOMINANT WAVELENGTH TYPICAL (nm)	
	MIN	MAX
RED	620	624
GREEN	525	531
BLUE	453	457
AMBER	585	595

COLOR LEDs WAVELENGTH[2]

COLOR- 4L4	DOMINANT WAVELENGTH TYPICAL (nm)	
	MIN	MAX
RED		
GREEN		
BLUE		
AMBER		

DIMMING & CONTROL

- All LED modules are dimmable and controllable by default
- Pixel resolution: 300 mm (12 in) or 150 mm (6 in)
- Can be controlled by Art-Net 4, sACN, DMX-512A through GVA's Power-Data Converter PDC-GEN5
- GVA's proprietary communication protocol COLOR-STREAM® allows up to 120 Hz refresh rate with the default 60 Hz
- 12-bit dimming resolution with 4,096 micro-steps for each color and very smooth dimming and color transition
- Up to 40 kHz equivalent dimming frequency guarantees flicker-free lighting for human eye and high-speed video cameras
- 100% to 0.02% absolute minimum dimming range, flicker free dimming range: 100% to 0.2%
- No audible noise in full dimming range
- Configurable exponential dimming curve matches the human eye's perceived changes in brightness

PIXEL RESOLUTION

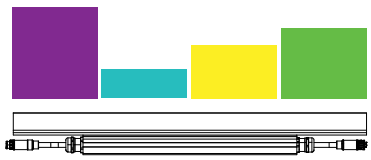
STR9-GEN4-600

PIXEL RESOLUTION

DOWN TO

300 mm

(12 in)



STR9-GEN4-600

PIXEL RESOLUTION

DOWN TO

150 mm

(6 in)

1. Measurements performed for STR9 with a 10° beam angle and 3000K
2. For specific wavelength, other than above, consult factory

MAXIMUM RECOMMENDED[1] LIGHTING CIRCUIT LENGTH IN METERS

Maximum circuit length, in meters, per 300 mm increments per pixel resolution, per desirable refresh rate, per LED module's wattage and per input voltage. Calculated for 5 m, 30 m and 100 m of leader cable length. The below numbers represent linear meters of fixtures

AC (120 - 277 V AC)[2]

LEADER CABLE LENGTH	RE-FRESH RATE	RESOLU-TION	120 V AC				208 V AC				230 V AC				240 V AC				277 V AC			
			5W	10W	15W	20W	5W	10W	15W	20W	5W	10W	15W	20W	5W	10W	15W	20W	5W	10W	15W	20W
5 m	30Hz	R150	82	42	29	22	142	74	50	38	157	82	55	42	164	85	57	43	189	98	66	50
		R300	82	42	29	22	142	74	50	38	157	82	55	42	164	85	57	43	189	98	66	50
	60Hz	R150	82	42	29	22	142	74	50	38	150	82	55	42	150	85	57	43	150	98	66	50
		R300	82	42	29	22	142	74	50	38	157	82	55	42	164	85	57	43	189	98	66	50
	120Hz	R150	75	42	29	22	75	74	50	38	75	75	55	42	75	75	57	43	75	75	66	50
		R300	82	42	29	22	142	74	50	38	150	82	55	42	150	85	57	43	150	98	66	50
30 m	30Hz	R150	78	41	27	21	138	72	48	37	154	80	54	41	160	83	56	42	186	96	65	49
		R300	78	41	27	21	138	72	48	37	154	80	54	41	160	83	56	42	186	96	65	49
	60Hz	R150	78	41	27	21	138	72	48	37	150	80	54	41	150	83	56	42	150	96	65	49
		R300	78	41	27	21	138	72	48	37	154	80	54	41	160	83	56	42	186	96	65	49
	120Hz	R150	75	41	27	21	75	72	48	37	75	75	54	41	75	75	56	42	75	75	65	49
		R300	78	41	27	21	138	72	48	37	150	80	54	41	150	83	56	42	150	96	65	49
100 m	30Hz	R150	69	36	24	18	129	67	45	34	144	75	51	38	151	78	53	40	176	91	62	47
		R300	69	36	24	18	129	67	45	34	144	75	51	38	151	78	53	40	176	91	62	47
	60Hz	R150	69	36	24	18	129	67	45	34	144	75	51	38	150	78	53	40	150	91	62	47
		R300	69	36	24	18	129	67	45	34	144	75	51	38	151	78	53	40	176	91	62	47
	120Hz	R150	69	36	24	18	75	67	45	34	75	75	51	38	75	75	53	40	75	75	62	47
		R300	69	36	24	18	129	67	45	34	144	75	51	38	150	78	53	40	150	91	62	47

1. Run lengths may vary depending on luminaire length combination chosen. Please consult factory for layout configuration
2. Type D breaker required for 277V AC. Do not exceed 50 luminaires per run

MAXIMUM RECOMMENDED[1] LIGHTING CIRCUIT LENGTH IN METERS

Maximum circuit length, in meters, per 300 mm increments per pixel resolution, per desirable refresh rate, per LED module's wattage and per input voltage. Calculated for 5 m, 30 m and 100 m of leader cable length. The below numbers represent linear meters of fixtures

INF (380 V DC)

LEADER CABLE LENGTH	RE-FRESH RATE	RESOLU-TION	380 V DC			
			5W	10W	15W	20W
5 m	30Hz	R150	260	134	91	69
		R300	260	134	91	69
	60Hz	R150	150	134	91	69
		R300	260	134	91	69
	120Hz	R150	75	75	75	69
		R300	150	134	91	69
30 m	30Hz	R150	256	132	90	68
		R300	256	132	90	68
	60Hz	R150	150	132	90	68
		R300	256	132	90	68
	120Hz	R150	75	75	75	68
		R300	150	132	90	68
100 m	30Hz	R150	246	128	86	65
		R300	246	128	86	65
	60Hz	R150	150	128	86	65
		R300	246	128	86	65
	120Hz	R150	75	75	75	65
		R300	150	128	86	65

1. Run lengths may vary depending on luminaire length combination chosen. Please consult factory for layout configuration
2. Type D breaker required for 277V AC. Do not exceed 50 luminaires per run

STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM

GVA LIGHTING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

MAXIMUM RECOMMENDED[1] LIGHTING CIRCUIT LENGTH IN FEET

Maximum circuit length, in feet, per 1 ft increments per pixel resolution, per desirable refresh rate, per LED module's wattage and per input voltage. Calculated for 16 ft, 100 ft and 330 ft of leader cable length. The below numbers represent linear feet of fixtures

AC (120 - 277 V AC)[2]

LEADER CABLE LENGTH	RE-FRESH RATE	RESOLU-TION	120 V AC				208 V AC				230 V AC				240 V AC				277 V AC			
			5W	10W	15W	20W	5W	10W	15W	20W	5W	10W	15W	20W	5W	10W	15W	20W	5W	10W	15W	20W
16 ft	30Hz	R150	267	138	93	70	464	241	162	123	514	267	180	135	536	277	187	141	620	320	216	163
		R300	267	138	93	70	464	241	162	123	514	267	180	135	536	277	187	141	620	320	216	163
	60Hz	R150	267	138	93	70	464	241	162	123	493	267	180	135	493	277	187	141	493	320	216	163
		R300	267	138	93	70	464	241	162	123	514	267	180	135	536	277	187	141	620	320	216	163
	120Hz	R150	247	138	93	70	247	241	162	123	247	247	180	135	247	247	187	141	247	247	216	163
		R300	267	138	93	70	464	241	162	123	493	267	180	135	493	277	187	141	493	320	216	163
100 ft	30Hz	R150	256	132	89	67	453	235	158	120	503	260	176	132	525	271	184	138	608	314	212	160
		R300	256	132	89	67	453	235	158	120	503	260	176	132	525	271	184	138	608	314	212	160
	60Hz	R150	256	132	89	67	453	235	158	120	493	260	176	132	493	271	184	138	493	314	212	160
		R300	256	132	89	67	453	235	158	120	503	260	176	132	525	271	184	138	608	314	212	160
	120Hz	R150	247	132	89	67	247	235	158	120	247	247	176	132	247	247	184	138	247	247	212	160
		R300	256	132	89	67	453	235	158	120	493	260	176	132	493	271	184	138	493	314	212	160
330 ft	30Hz	R150	225	117	78	60	423	218	148	111	472	244	165	125	494	255	173	130	577	299	201	152
		R300	225	117	78	60	423	218	148	111	472	244	165	125	494	255	173	130	577	299	201	152
	60Hz	R150	225	117	78	60	423	218	148	111	472	244	165	125	493	255	173	130	493	299	201	152
		R300	225	117	78	60	423	218	148	111	472	244	165	125	494	255	173	130	577	299	201	152
	120Hz	R150	225	117	78	60	247	218	148	111	247	244	165	125	247	247	173	130	247	247	201	152
		R300	225	117	78	60	423	218	148	111	472	244	165	125	493	255	173	130	493	299	201	152

1. Run lengths may vary depending on luminaire length combination chosen. Please consult factory for layout configuration
2. Type D breaker required for 277V AC. Do not exceed 50 luminaires per run

MAXIMUM RECOMMENDED[1] LIGHTING CIRCUIT LENGTH IN FEET

Maximum circuit length, in feet, per 1 ft increments per pixel resolution, per desirable refresh rate, per LED module's wattage and per input voltage. Calculated for 16 ft, 100 ft and 330 ft of leader cable length. The below numbers represent linear feet of fixtures

INF (380 V DC)

LEADER CABLE LENGTH	RE-FRESH RATE	RESOLU-TION	380 V DC			
			5W	10W	15W	20W
16 ft	30Hz	R150	851	439	297	224
		R300	851	439	297	224
	60Hz	R150	493	439	297	224
		R300	851	439	297	224
	120Hz	R150	247	247	247	224
		R300	493	439	297	224
100 ft	30Hz	R150	839	434	293	221
		R300	839	434	293	221
	60Hz	R150	493	434	293	221
		R300	839	434	293	221
	120Hz	R150	247	247	247	221
		R300	493	434	293	221
330 ft	30Hz	R150	808	418	282	212
		R300	808	418	282	212
	60Hz	R150	493	418	282	212
		R300	808	418	282	212
	120Hz	R150	247	247	247	212
		R300	493	418	282	212

1. Run lengths may vary depending on luminaire length combination chosen. Please consult factory for layout configuration
2. Type D breaker required for 277V AC. Do not exceed 50 luminaires per run

STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM GVA LIGHTING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

SPECIFICATION LOGIC

FAMILY	NOMINAL LENGTH (mm)	BODY FINISH	POWER PER 300 mm (1 ft)	PIXEL RESO-LUTION	OPTICAL DESIGN	LED COLOR	NOMINAL BEAM ANGLE (FWHM)	INTERNAL GLARE CONTROL ACCESSORIES	NOMINAL INPUT VOLTAGE	COMPLIANCE	BRACKET[6]
STR9-G4 Strip Light number 9, generation 4	**300T**[1] **300E**[2] **600** **900** **1200** **1500**	**CM** Clear Matte Anodized **BM** Black Matte Anodized **XXXXXX**[7] Custom Finish	**5W** **10W** **15W** **20W**	**R300** 300 mm (12 in) pixel size **R150** 150 mm (6 in) pixel size	**IM** Inner Mixing	**RGBW308** **RGBA**	**10** 10° x 10° **15** 15° x 15° **20** 20° x 20° **30** 30° x 30° **60** 60° x 60° **80** 80° x 80° **100** 100° x 100° **1030** 10° x 30° **1060** 10° x 60° **1090** 10° x 90° **3060** 30° x 60° **A20R** 20° x 20° x 20° Right **A20L** 20° x 20° x 20° Left **B08R** 20° x 60° x 8° Right **B08L** 20° x 60° x 8° Left	**O** No Accessories **H** Microlouver Horizontal **V** Microlouver Vertical **L** Half Frosted Glass Left **R** Half Frosted Glass Right **T** Half Frosted Glass Left + Micro Louver Vertical **J** Half Frosted Glass Right + Micro Louver Vertical **Z** Half Frosted Glass Left + Micro Louver Horizontal **S** Half Frosted Glass Right + Micro Louver Horizontal	**INF** 380 V DC **277** 277 V AC Single-Phase **240** 240 V AC Single-Phase **230** 230 V AC Single-Phase **208** 208 V AC Phase-to-Phase[3] **120** 120 V AC **100** 100 V AC Single-Phase[3]	**N** North America (UL/ANSI) **E** European Union (CE) **U** United Kingdom (UKCA) **C** China (CCC)[5] **A** Australia & New Zealand (AS/NZS)[5] **J** Japan (PSE)[5]	**O** No Bracket, Order separately **SMAI** Surface Mount Adjustable Bracket Inside **SMAO** Surface Mount Adjustable Bracket Outside **W55** Adjustable Wall Mount 55 **W90** Adjustable Wall Mount 90 **W140** Adjustable Wall Mount 140 **W165** Adjustable Wall Mount 165 **W190** Adjustable Wall Mount 190
				R300 300 mm (12 in) pixel size	**4L4** 4 Linear clusters of 4 LEDs	**RGBW2783** **RGBW3083** **RGBW4083** **RGBW5083** **RGBW6583** **RGBA**[4]					

PRODUCT CONFIGURATION - IM - INNER MIXING

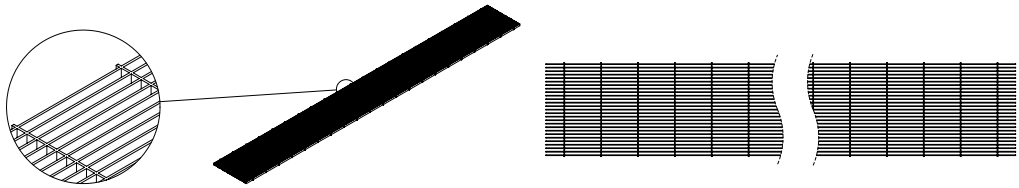
PRODUCT CONFIGURATION - 4L4

1. Pitch is maintained only at the input end; output end has non-standard pitch. Refer to page 2
2. Use only as the last luminaire in the run; pitch is maintained at the input end only, with no output connection
3. Under development. Consult with factory
4. Longer than standard lead-time and MOQ may be required
5. Certification planned. Contact factory for project-specific solutions.
6. Brackets can be selected in the product spec or ordered as a separate line item. If the brackets are included in this specification logic, their color will automatically match the selected body finish
7. Custom colors must be specified by RAL number and gloss level: matte (M), satin (S), semi-gloss (L), or gloss (G). For marine-grade finishes, add “M”. Example: RAL1000 satin: “1000S”; if marine-grade “1000SM.

ORDERING LOGIC: STR9-GEN4® MOUNTING ACCESSORIES

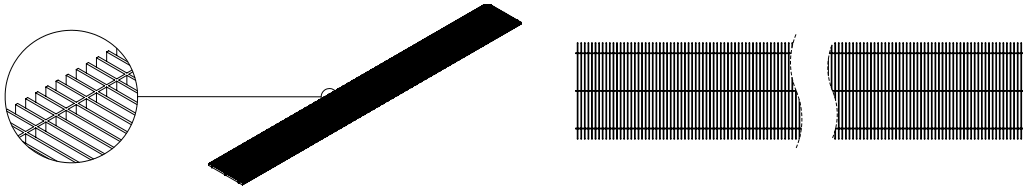
INTERNAL LOUVERS

TYPE	COLOR	WEIGHT (Per 300mm)	
		kg	lbs
H - INTERNAL MICRO LOUVER, HORIZONTAL	BLACK	0.16	0.35



*Please select option in the specification logic table if required. Item is factory installed only.

V - INTERNAL MICRO LOUVER, VERTICAL	BLACK	0.16	0.35



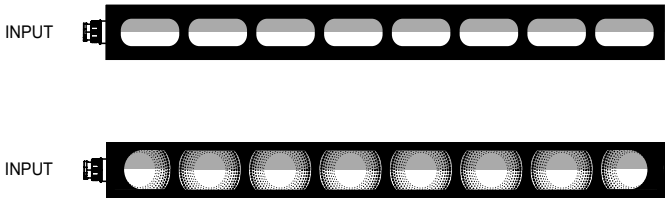
*Please select option in the specification logic table if required. Item is factory installed only.

EXTERNAL LOUVERS

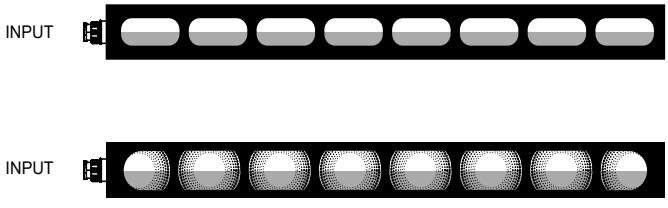
NOMINAL LENGTH	PART NUMBER	COLOR
300 mm (1 ft)[1]		
600 mm (2 ft)		
900 mm (3 ft)		
1200 mm (4 ft)		
1500 mm (5 ft)		

HALF-FROSTED GLASS

Half Frosted Glass Left



Half Frosted Glass Right

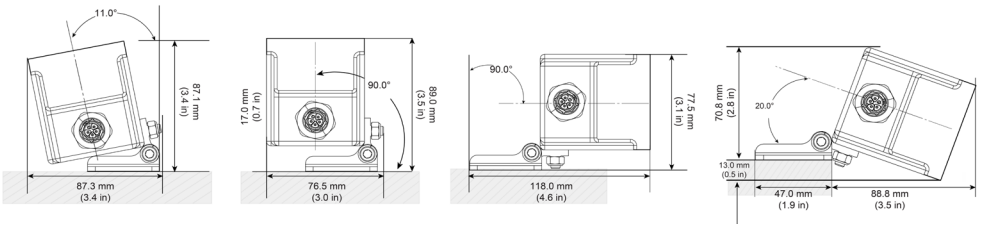


1. Modular Louver can be used on any standard length

ORDERING LOGIC: STR9-GEN4® MOUNTING ACCESSORIES

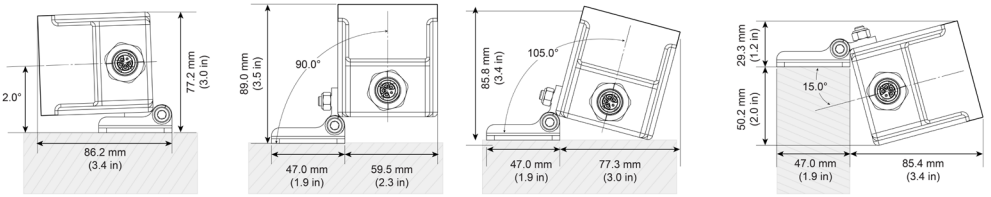
SMA-I ADJUSTABLE SURFACE MOUNT-INSIDE

SURFACE FINISH	PART NUMBER	WEIGHT kg	WEIGHT lbs
Clear Matte Anodized	127538	0.09	0.20
Black Matte Anodized	127539		



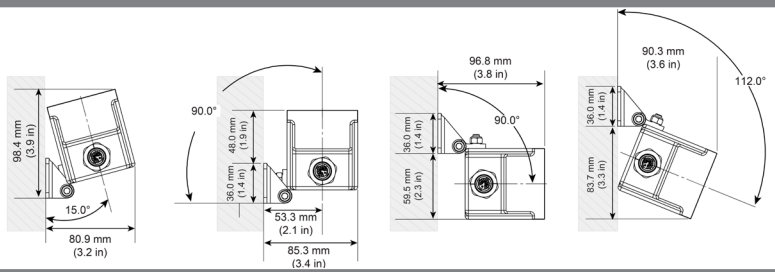
SMA-O ADJUSTABLE SURFACE MOUNT-OUTSIDE

SURFACE FINISH	PART NUMBER	WEIGHT kg	WEIGHT lbs
Clear Matte Anodized	127538	0.09	0.20
Black Matte Anodized	127539		



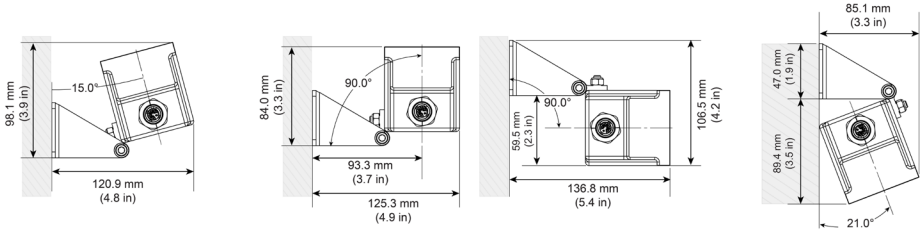
W55 ADJUSTABLE WALL MOUNT (SURFACE MOUNTABLE)

SURFACE FINISH	PART NUMBER	WEIGHT kg	WEIGHT lbs
Clear Matte Anodized	121128	0.10	0.21
Black Matte Anodized	121129		



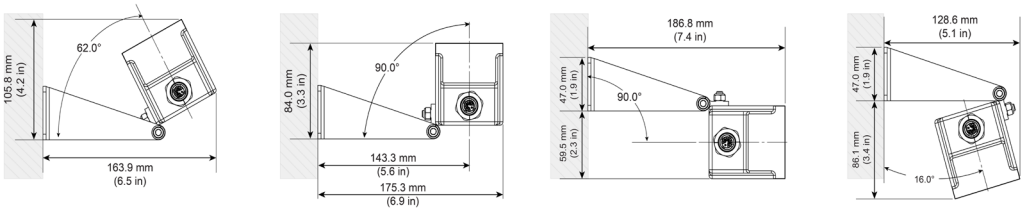
W90 ADJUSTABLE WALL MOUNT

SURFACE FINISH	PART NUMBER	WEIGHT kg	WEIGHT lbs
Clear Matte Anodized	121130	0.12	0.27
Black Matte Anodized	121131		



W140 ADJUSTABLE WALL MOUNT

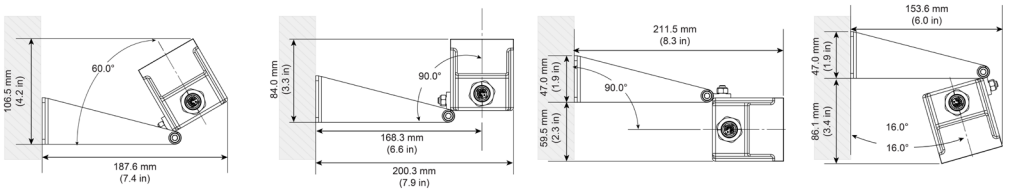
SURFACE FINISH	PART NUMBER	WEIGHT kg	WEIGHT lbs
Clear Matte Anodized	121132	0.15	0.32
Black Matte Anodized	121133		



ORDERING LOGIC: STR9-GEN4® MOUNTING ACCESSORIES

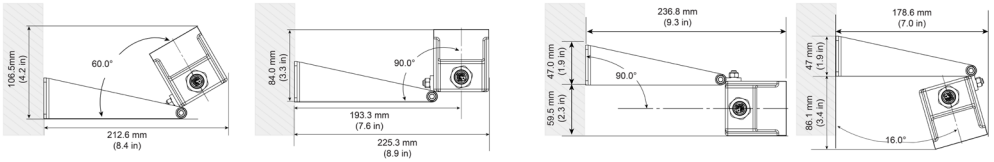
W165 ADJUSTABLE WALL MOUNT

SURFACE FINISH	PART NUMBER	WEIGHT	
		kg	lbs
Clear Matte Anodized	121136	0.16	0.35
Black Matte Anodized	121137		



W190 ADJUSTABLE WALL MOUNT

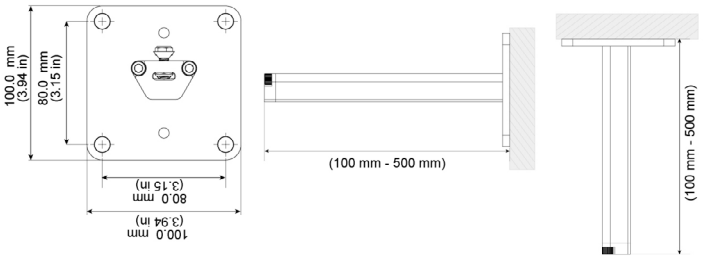
SURFACE FINISH	PART NUMBER	WEIGHT	
		kg	lbs
Clear Matte Anodized	125441	0.17	0.38
Black Matte Anodized	125447		



ORDERING LOGIC: STR9 MOUNTING ACCESSORIES

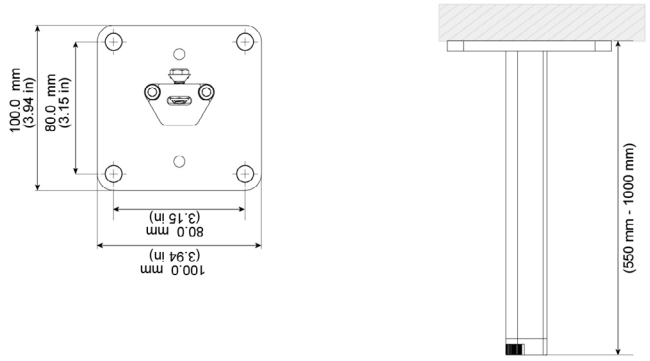
CCV - CANTILEVER CEILING AND VERTICAL MOUNT - 100 MM - 500 MM

TYPE	LENGTH (mm)	COLOR	MOUNTING CONFIGURATION	UP QTY
CCV	100 150 200 250 300 350 400 450 500	**CM -** Clear Matte **BM -** Black Matte **XXXXX-** Custom Color	**WXX** - Compatible with W series brackets[1] **SMA.STR9** - Compatible with STR9 SMA brackets[1]	**U1 -** 1 luminaire **UX -** Custom qty[2]



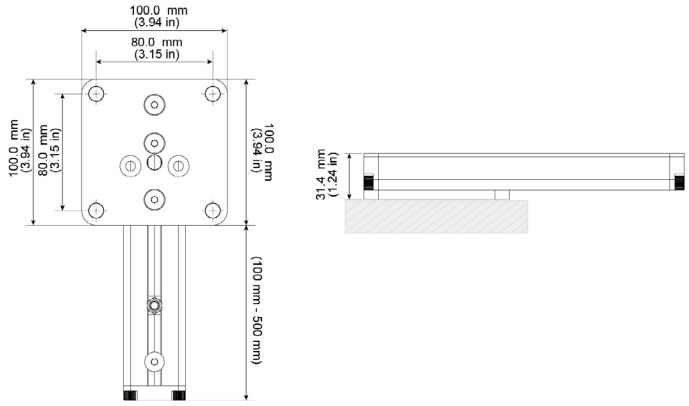
CC - CANTILEVER CEILING MOUNT - 550 MM - 1000 MM

TYPE	LENGTH (mm)	COLOR	MOUNTING CONFIGURATION	UP QTY
CC	550 600 650 700 750 800 850 900 950 1000	**CM -** Clear Matte **BM -** Black Matte **XXXXX-** Custom Color	**WXX** - Compatible with W series brackets[1] **SMA.STR9** - Compatible with STR9 SMA brackets[1]	**U1 -** 1 luminaire **UX -** Custom qty[2]



CHD - CANTILEVER HORIZONTAL MOUNT, DOWNLIGHT - 100 MM - 500 MM

TYPE	LENGTH (mm)	COLOR	MOUNTING CONFIGURATION (DOWN)	DOWN QTY
CHD	100 150 200 250 300 350 400 450 500	**CM -** Clear Matte **BM -** Black Matte **XXXXX-** Custom Color	**WXX** - Compatible with W series brackets[1] **SMA.STR9** - Compatible with STR9 SMA brackets[1]	**D1 -** 1 luminaire **DX -** Custom qty[2]

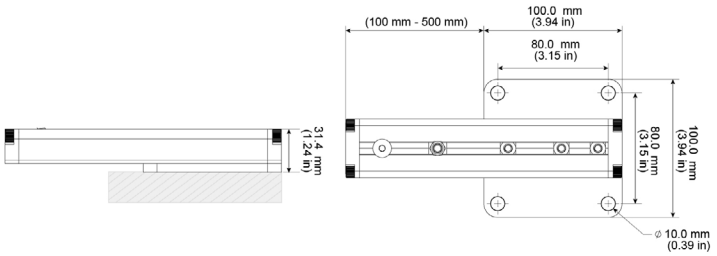


1. Brackets not included. Order one set per luminaire separately
2. Consult with factory

ORDERING LOGIC: STR9 MOUNTING ACCESSORIES

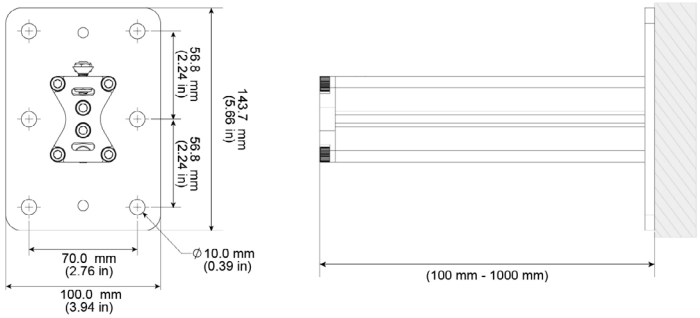
CHU - CANTILEVER HORIZONTAL MOUNT, UPLIGHT - 100 MM - 500 MM

TYPE	LENGTH (mm)	COLOR	MOUNTING CONFIGURATION (UP)	UP QTY
CHU	**100** **150** **200** **250** **300** **350** **400** **450** **500**	**CM -** Clear Matte **BM -** Black Matte **XXXXX-** Custom Color	**WXX** - Compatible with W series brackets[1] **SMA.STR9** - Compatible with STR9 SMA brackets[1]	**U1 -** 1 luminaire **UX -** Custom qty[2]



DCCV - DOUBLE CANTILEVER VERTICAL & CEILING MOUNT - 100 MM-1000MM

TYPE	LENGTH (mm)	COLOR	MOUNTING CONFIGURATION (UP)	UP QTY	MOUNTING CONFIGURATION (DOWN)	DOWN QTY
DCCV	**100** **150** **200** **250** **300** **350** **400** **450** **500** **550** **600** **650** **700** **750** **800** **850** **900** **950** **1000**	**CM -** Clear Matte **BM -** Black Matte **XXXXX-** Custom Color	**WXX** - Compatible with W series brackets[1] **SMA.STR9** - Compatible with STR9 SMA brackets[1]	**U0 -** No luminaire **U1 -** 1 luminaire **UX -** Custom qty[2]	**WXX** - Compatible with W series brackets[1] **SMA.STR9** - Compatible with STR9 SMA brackets[1]	**D0 -** No luminaire **D1 -** 1 luminaire **DX -** Custom qty[2]



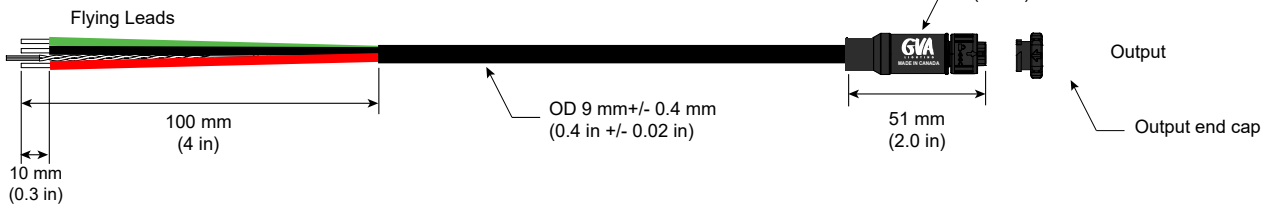
1. Brackets not included. Order one set per luminaire separately
2. Consult with factory

LEADER AND JUMPER CABLE CONSTRUCTION

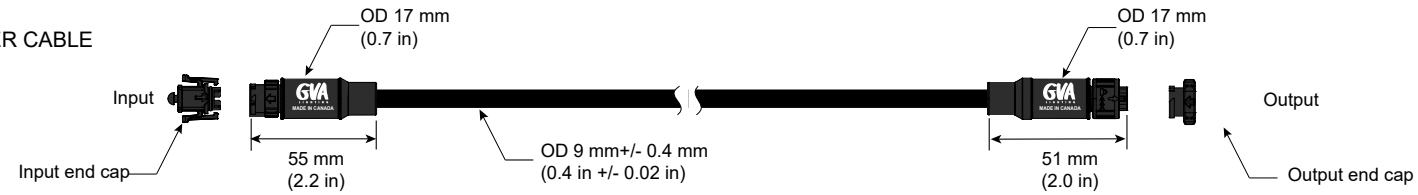
- Cable UL AWM/STYLE 22051, CSA C(RU) AWM I/II A/B FT1, 90°C Dry, 75°C Wet, 600Vrms, Sun Resistant, Hard Usage, CE EU Low Voltage Directive 2014/35 EU, Black Jacket
- Cable construction: 3x14 AWG power and grounding conductors and 2x24 AWG control conductors
- Rated operating temperature is -40°C to + 90°C (-40°F to +194°F) in dry locations and -40°C to + 75°C (-40°F to +167°F) in wet locations
- Leader and jumper cables come with preinstalled input and output connector caps

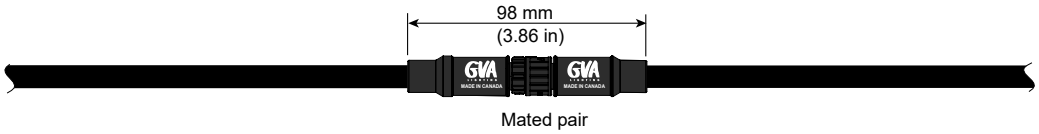
DIMENSIONS

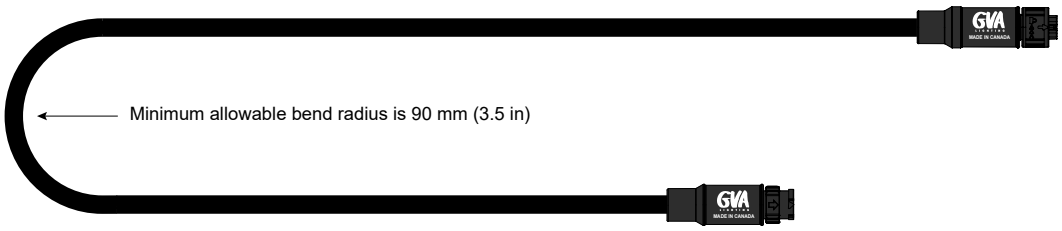
LEADER CABLE



JUMPER CABLE







INF LEADER CABLE FLYING LEADS		
WIRE COLOR	WIRE GAUGE	COLOR CODE
RED	14 AWG	DC (+)
BLACK	14 AWG	DC (-)
GREEN	14 AWG	GROUND / PE
YELLOW	24 AWG	DATA CS+
BLUE	24 AWG	DATA CS-

AC LEADER CABLE FLYING LEADS		
WIRE COLOR	WIRE GAUGE	COLOR CODE
RED	14 AWG	LINE
BLACK	14 AWG	NEUTRAL
GREEN	14 AWG	GROUND / PE
YELLOW	24 AWG	DATA CS+
BLUE	24 AWG	DATA CS-

SPECIFICATION LOGIC: LEADER AND JUMPER CABLE

CABLE TYPE	VOLTAGE	LENGTH
LC - Leader Cable	**INF3+CS** **AC3+CS**	**1M** - 1 m (3.28 ft) **5M** - 5 m (16.40 ft) **10M** - 10 m (32.81 ft) **20M** - 20 m (65.61 ft) **30M** - 30 m (98.43 ft) **40M** - 40 m (131.23 ft) **50M** - 50 m (164.04 ft) **60M** - 60 m (196.85 ft) **70M** - 70 m (229.65 ft) **80M** - 80 m (262.46 ft) **90M** - 90 m (295.27 ft) **100M** - 100 m (328.08 ft) **XX.XXM** - CUSTOM XX.XX m
JC - Jumper Cable	**INF3/AC3+CS**	**0.2M** - 0.20 m (0.66 ft) **0.3M** - 0.30 m (0.98 ft) **0.5M** - 0.50 m (1.64 ft) **0.75M** - 0.75 m (2.46 ft) **1M** - 1.00 m (3.28 ft) **2.5M** - 2.50 m (8.20 ft) **5M** - 5.00 m (16.40 ft) **10M** - 10.00 m (32.81 ft) **15M** - 15.00 m (49.21 ft) **20M** - 20.00 m (65.61 ft) **25M** - 25.00 m (82.02 ft) **30M** - 30.00 m (98.43 ft) **35M** - 35.00 m (114.83 ft) **40M** - 40.00 m (131.23 ft) **45M** - 45.00 m (147.64 ft) **50M** - 50 m (164.04 ft) **60M** - 60 m (196.85 ft) **70M** - 70 m (229.65 ft) **80M** - 80 m (262.46 ft) **90M** - 90 m (295.27 ft) **100M** - 100 m (328.08 ft) **XX.XXM** - CUSTOM XX.XX m

CONNECTOR CAP, IP67

PART NUMBER	TYPE	WEIGHT
232121	CONNECTOR CAP FOR INPUT	1.10 g
232638	CONNECTOR CAP FOR OUTPUT	0.96 g

STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM

GVA LIGHTING

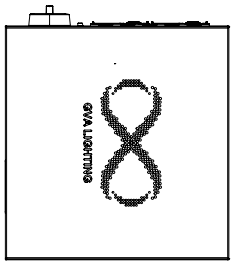
STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

ORDERING LOGIC: POWER SUPPLIES AND POWER DATA EQUIPMENT

POWER-DATA CONVERTERS

FAMILY	VOLTAGE	INPUT DATA PROTOCOL	# OF OUTPUTS	TYPE OF OUTPUT	LEVEL OF SURGE	CABLE FITTINGS	COMPLIANCE	ADDRESSING
PDC-G5	**INF** 380 V DC **AC** 120-277 V AC	**ARTNET/SACNRJ45** Art-Net or streaming sACN with Ethernet RJ45 Input **ARTNET/SACNFO** Art-Net or streaming sACN with Fiber-Optic Input[1] **1DMX/RDM** One DMX universe Input + One DMX Output **2DMX/RDM** Two DMX universes Input **4DMX/RDM** Four DMX universes Input **DALI/0-10V** DALI-2, 0~10V (monochromatic configurations only)	**1** **2**	**INF3+CS**[3] **AC3+CS**	**6KV3KA** 6 KV and 3 KA surge protection (default) **12KV6KA** 12 KV and 6 KA surge protection **20KV10KA** 20 KV and 10 KA surge protection	**G** Cable glands **F** Conduit fitting **B** Cable glands & conduit fittings	**N** North America (UL/ANSI) **E** European Union (CE) **U** United Kingdom (UKCA) **C** China (CCC)[1] **A** Australia & New Zealand (AS/NZS)[1] **J** Japan (PSE)[1]	**D** Default **A** Addressed

PS 3/6 KW, IP30



North America

PART NUMBER	DESCRIPTION
INPUT VOLTAGE: 120/208/240 V	
G20488-CN	POWER SUPPLY, PS-INF-1.7/3KW, 1M, 120/(208-240)VAC, IP30, CN[2]
G20491-CN	POWER SUPPLY, PS-INF-3.4/6KW, 2M, 120/(208-240)VAC, IP30, CN[2]
G20488-US	POWER SUPPLY, PS-INF-1.7/3KW, 1M, 120/(208-240)VAC, IP30, US[2]
G20491-US	POWER SUPPLY, PS-INF-3.4/6KW, 2M, 120/(208-240)VAC, IP30, US[2]
INPUT VOLTAGE: 277 V	
G20492-US	POWER SUPPLY, PS-INF-3KW, 277VAC, IP30, US
G20493	POWER SUPPLY, PS-INF-6KW, 277VAC, IP30, US

Europe, United Kingdom

PART NUMBER	DESCRIPTION
G20488	POWER SUPPLY, PS-INF-3KW, 1M, 230VAC, IP30, E/U
G20491	POWER SUPPLY, PS-INF-6KW, 2M, 230VAC, IP30, E/U

1. Under development. Consult with factory
2. Power derated to 1.7 KW for G20488 and 3.4 KW for G20491 when supplied with 120 V AC
3. INF3 - three conductors (positive, negative, and protective earth) for STR9-G4, STR10, FL-G2 luminaires, where protective earth contact is required

ORDERING LOGIC: POWER SUPPLIES AND POWER DATA EQUIPMENT

PS 3.5 KW, IP66

North America

PART NUMBER	DESCRIPTION
INPUT VOLTAGE: 120 V[1]	
G20795-CN	PS-INF-3.5KW, 120 (LN), 3KA/6KV, N, IP66
G20795-US	PS-INF-3.5KW, 120 (LN), 3KA/6KV, N, IP66
G20796-CN	PS-INF-3.5KW, 120 (LN), 6KA/12KV, N, IP66
G20796-US	PS-INF-3.5KW, 120 (LN), 6KA/12KV, N, IP66
G20797-CN	PS-INF-3.5KW, 120 (LN), 10KA/20KV, N, IP66
G20797-US	PS-INF-3.5KW, 120 (LN), 10KA/20KV, N, IP66
INPUT VOLTAGE: 208/240 V	
G20610-CN	PS-INF-3.5KW, 208/240 (LL), 3KA/6KV, N, IP66
G20610-US	PS-INF-3.5KW, 208/240 (LL), 3KA/6KV, N, IP66
G20793-CN	PS-INF-3.5KW, 208/240 (LL), 6KA/12KV, N, IP66
G20793-US	PS-INF-3.5KW, 208/240 (LL), 6KA/12KV, N, IP66
G20794-CN	PS-INF-3.5KW, 208/240 (LL), 10KA/20KV, N, IP66
G20794-US	PS-INF-3.5KW, 208/240 (LL), 10KA/20KV, N, IP66

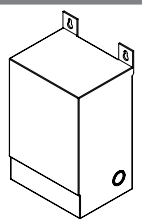
Europe, United Kingdom

PART NUMBER	DESCRIPTION
G20795	PS-INF-3.5KW, 230 (LN), 3KA/6KV, E/U, IP66
G20796	PS-INF-3.5KW, 230 (LN), 6KA/12KV, E/U, IP66
G20797	PS-INF-3.5KW, 230 (LN), 10KA/20KV, E/U, IP66

ACCESSORIES

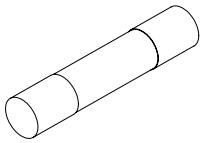
TRANSFORMER - 277 V AC TO 240 V AC

PART NUMBER	DESCRIPTION
210230	TRANSFORMER, 5KVA, 1PH, 277PRI, 120/240VSEC, 50Hz, ALUM



REPLACEMENT FUSES (ONE ADDITIONAL SET INCLUDED WITH EVERY PS-INF-3.5KW)

PART NUMBER	DESCRIPTION
231961	FUSE, 15A, 500VAC/DC, 1/4X1-1/4
232632	FUSE, 25A, 500VAC/DC, 1/4X1-1/4



1. Maximum power output 2200 W

STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM

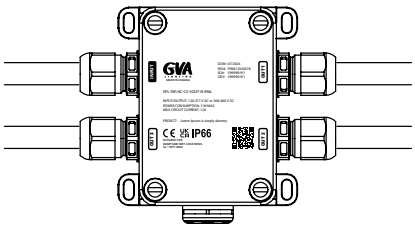
GVA LIGHTING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

ORDERING LOGIC: SPLITTER

SPLITTER

FAMILY	NOMINAL INPUT VOLTAGE	COMMUNICATION PROTOCOL	NUMBER OF OUTPUTS	COMPLIANCE	CONSTRUCTION
SPL Splitter	**INF/AC** 380 V DC or 100-277 V AC	**CS** Color-Stream	**1OUT** 1 output (repeater mode) **2OUT** 2 outputs **3OUT** 3 outputs	**N** North America (UL/ANSI) **E** European Union (CE) **U** United Kingdom (UKCA) **C** China (CCC)[1] **A** Australia & New Zealand (AS/NZS)[1] **J** Japan (PSE)[1]	**IP66** Ingress Protection rating: IP66



North America

PART NUMBER	DESCRIPTION
G20752	SPL-INF/AC-CS-1OUT-N-IP66
G20753	SPL-INF/AC-CS-2OUT-N-IP66
G20744	SPL-INF/AC-CS-3OUT-N-IP66

United Kingdom

PART NUMBER	DESCRIPTION
G20763	SPL-INF/AC-CS-1OUT-U-IP66
G20764	SPL-INF/AC-CS-2OUT-U-IP66
G20765	SPL-INF/AC-CS-3OUT-U-IP66

Australia & New Zealand

PART NUMBER	DESCRIPTION
G20775	SPL-INF/AC-CS-1OUT-A-IP66
G20776	SPL-INF/AC-CS-2OUT-A-IP66
G20777	SPL-INF/AC-CS-3OUT-A-IP66

European Union

PART NUMBER	DESCRIPTION
G20757	SPL-INF/AC-CS-1OUT-E-IP66
G20758	SPL-INF/AC-CS-2OUT-E-IP66
G20759	SPL-INF/AC-CS-3OUT-E-IP66

China

PART NUMBER	DESCRIPTION
G20769	SPL-INF/AC-CS-1OUT-C-IP66
G20770	SPL-INF/AC-CS-2OUT-C-IP66
G20771	SPL-INF/AC-CS-3OUT-C-IP66

Japan

PART NUMBER	DESCRIPTION
G20787	SPL-INF/AC-CS-1OUT-J-IP66
G20788	SPL-INF/AC-CS-2OUT-J-IP66
G20789	SPL-INF/AC-CS-3OUT-J-IP66

1.Certification planned. Contact us for project-specific solutions.

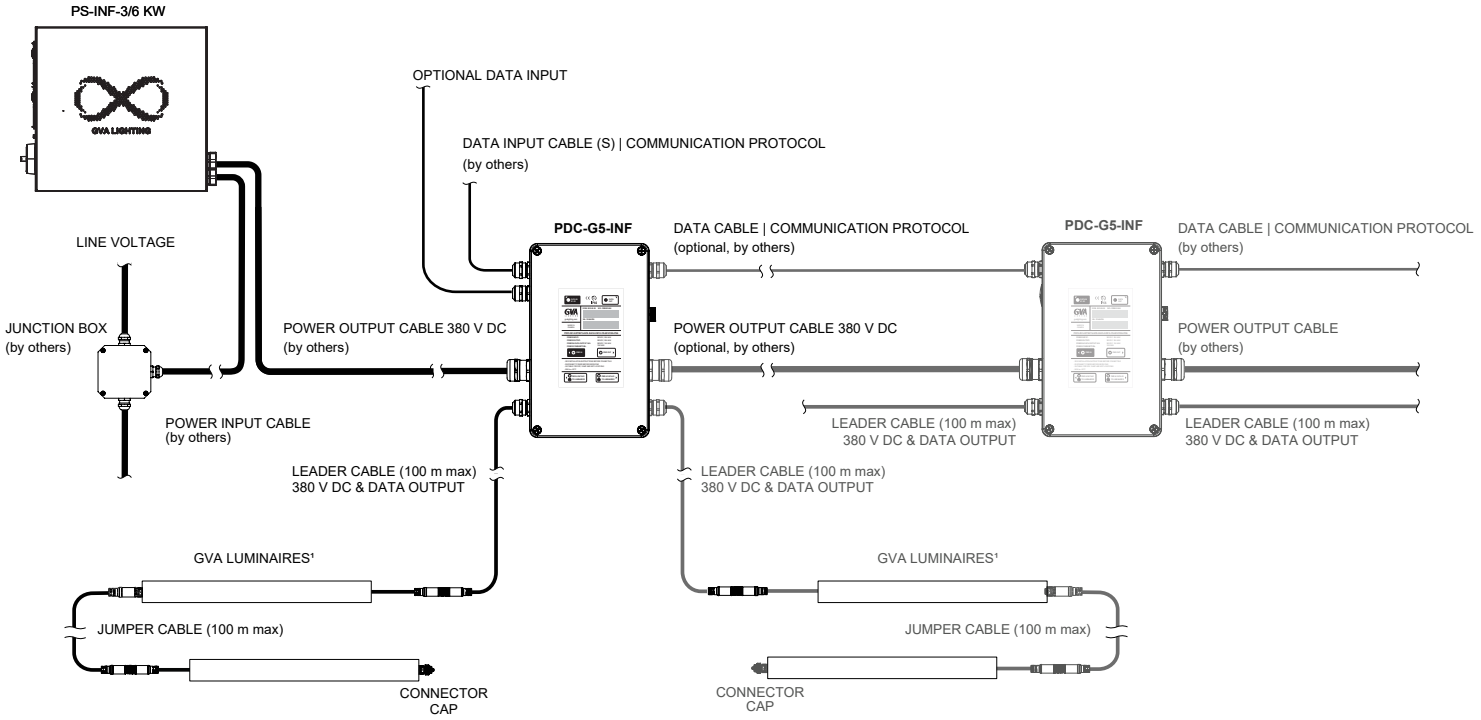
STR9®GEN4 PRELIMINARY COLOR CHANGING

INFINITY COLOR-AMP UNIBODY COLOR-STREAM

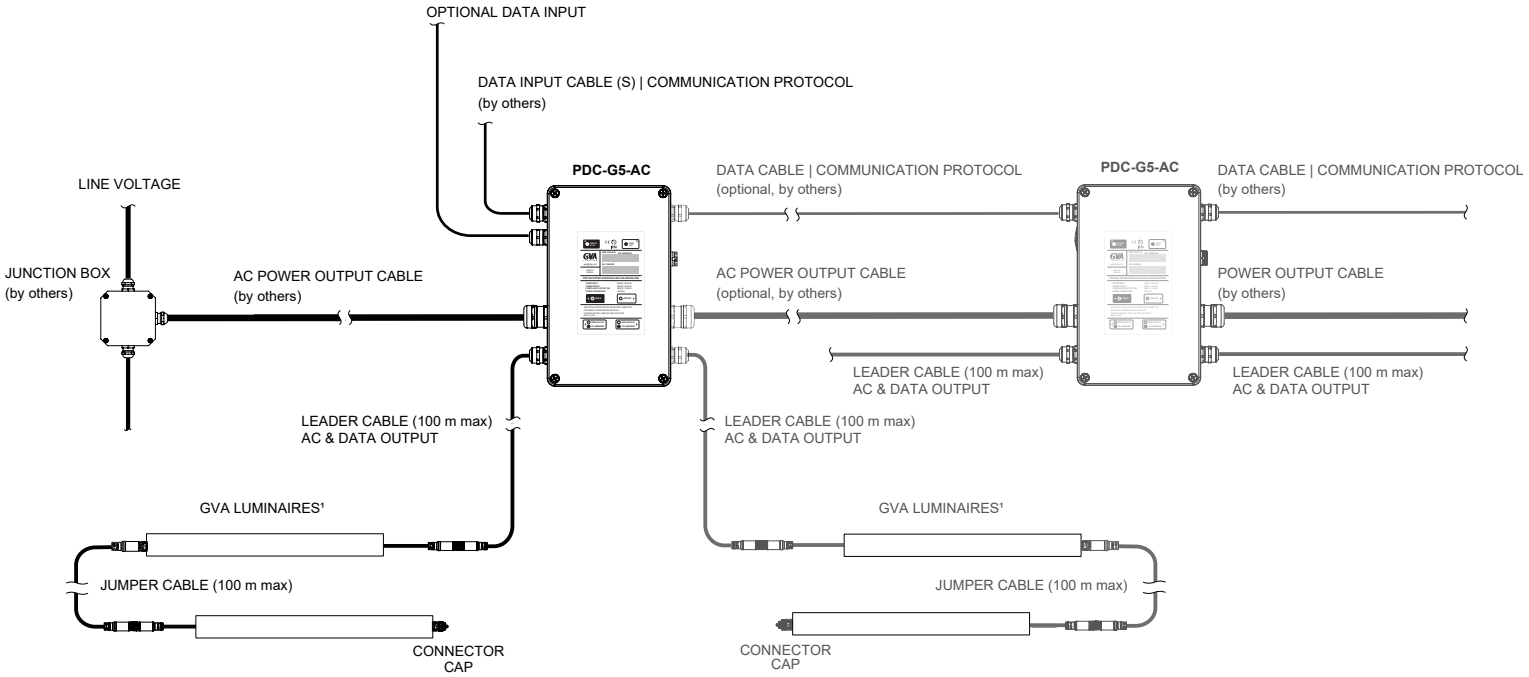
GVA LIGHTING

STR9® SERIES | Linear Wall Washing & Grazing LED Lighting System **PRODUCT SPECIFICATION SHEET**

TYPICAL SYSTEM DIAGRAM: INFINITY (WITH CONTROL)[2,3]



TYPICAL SYSTEM DIAGRAM: AC (WITH CONTROL)[2,3]



1. Represents a GVA Color-Stream® compatible luminaire.
2. Maximum Leader and Jumper cables lengths may vary based on your specific application needs. For precise specifications, please consult with the factory.
3. Product illustrations are for representation only and may not reflect actual size