FL100™

INFINITY GVA TECHNOLOGY   **COLOR-AMP** GVA TECHNOLOGY

GVA LIGHTING

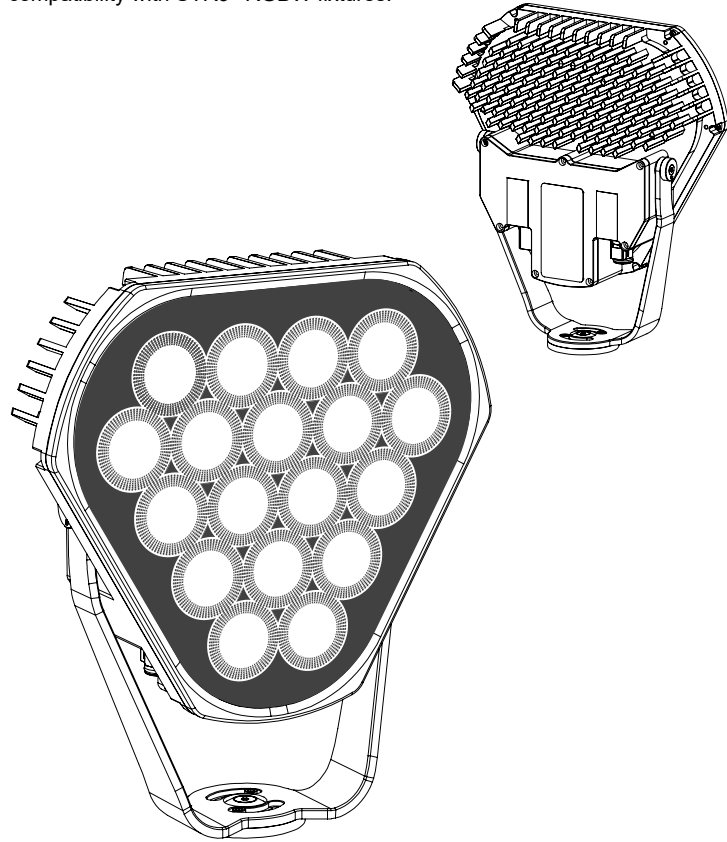## RGBW Inner-Mixing Architectural Spot and Floodlight

Color mixing in a single optic for wall washing/grazing applications and color compatibility with STR9® RGBW fixtures.

DATE:	
TYPE:	
COMPANY:	
PROJECT:	

360° ROTATION

276mm
10.8in

304mm
12.0in

160° VERTICAL ROTATION

87mm
3.4in

350mm
13.8in

266mm
10.5in

75mm
3.0in

*SM bracket mounting option shown.
See page 2 for more mounting options.

FEATURES:

- COLOR-AMP® technology allows up to three times higher light output in specific colors
- INFINITY® Technology compatible (INF)
- Built-in high temperature power supply (AC)
- Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications, taking into consideration wind and traffic vibrations
- Plug-and-play with STR9® luminaires
- Color matched with STR9® RGBW linear luminaires
- Advanced thermal design with cutting-edge manufacturing process and materials
- Compact size, only 87mm (3.4in) in depth
- Weight of only 5kg (11lbs)
- Highly adjustable with 360° horizontal rotation and 160° vertical rotation

OPTIONS:

- Beam angles ranging from 10° to 90° with elliptical distribution Optical accessories for glare control
- Clear matte and black matte standard anodized body colors
- Custom body colors available on demand
- ELV (48VDC), INF (380VDC) and AC (85~264VAC or 85~277VAC) input options
- Range of bracket lengths and mounting options

SPECIFICATION LOGIC: FL100™ IM (INNER MIXING)

FAMILY	BODY COLOR	LED COLOR	OPTICS(FWHM)*	VOLTAGE	MOUNTING OPTION
FL100	BM - Black Matte Anodized CM - Clear Matte Anodized CUST - Custom Color¹	RGBW65K-IM	10 - 10°x10° 20 - 20°x20° 40 - 40°x40° 60 - 60°x60° 80 - 80°x80° 90 - 90°x90° 10x40 - 10°x40° H 40x10 - 40°x10° V 10x60 - 10°x60° H 60x10 - 60°x10° V 30x60 - 30°x60° H 60x30 - 60°x30° V	ELV - 48VDC INF - 380VDC AC - 85~264VAC AC277 - 85~277VAC	SM120 - Surface Mount 120mm¹ SM200 - Surface Mount 200mm SM300 - Surface Mount 300mm¹ SM400 - Surface Mount 400mm¹ SM500 - Surface Mount 500mm¹ SMXXX - Surface Mount Custom¹ (specify length) TM200 - Tenon Mount 200mm¹ PM - Pole Mount¹

PRODUCT CONFIGURATION

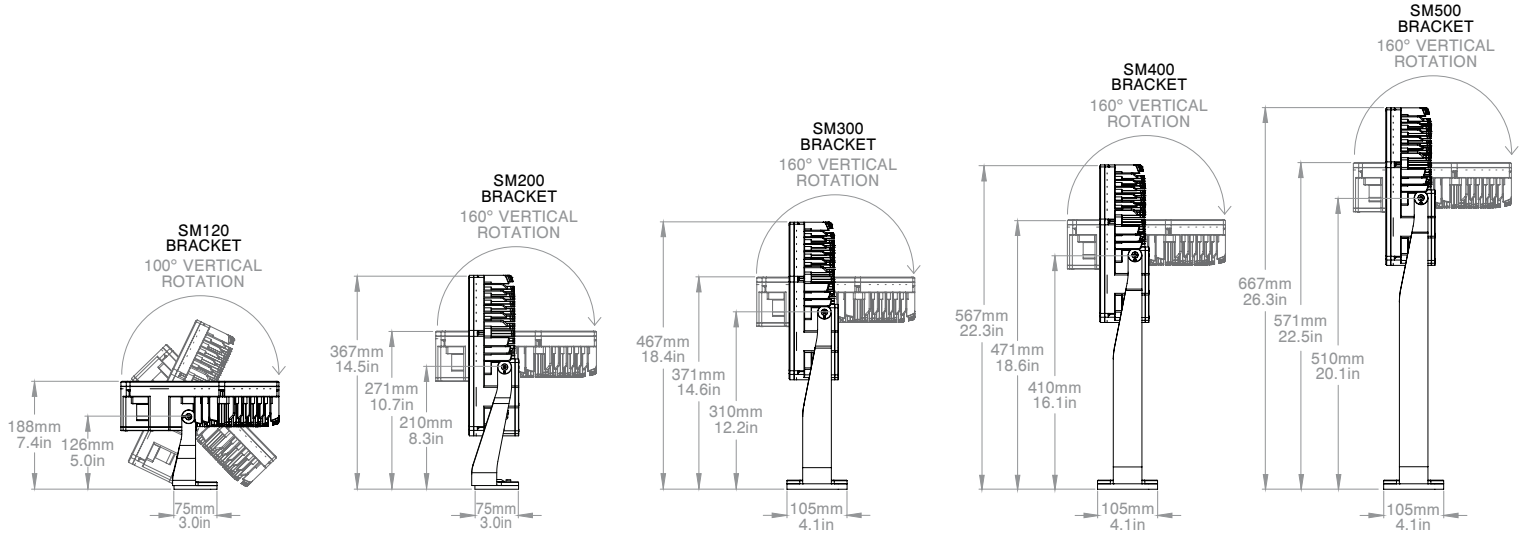|					

1. Non standard option and might require longer leadtime than usual. Contact factory for details.   Nominal values are used. Actual measurements may differ slightly.
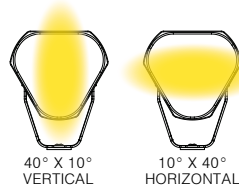

GVA Lighting, Inc. 3400 Ridgeway Drive, #14 Missisauga, Ontario L5L 0A2
Tel: + 1 905 569 6044 Email: info@gvalighting.com

SP-FL100 RGBW-IM, 19-01-03 | Page 1 / 5
gvalighting.com

MOUNTING BRACKET OPTIONS

SM120 BRACKET
100° VERTICAL ROTATION
188mm 7.4in   126mm 5.0in   75mm 3.0in

SM200 BRACKET
160° VERTICAL ROTATION
367mm 14.5in   271mm 10.7in   210mm 8.3in   75mm 3.0in

SM300 BRACKET
160° VERTICAL ROTATION
467mm 18.4in   371mm 14.6in   310mm 12.2in   105mm 4.1in

SM400 BRACKET
160° VERTICAL ROTATION
567mm 22.3in   471mm 18.6in   410mm 16.1in   105mm 4.1in

SM500 BRACKET
160° VERTICAL ROTATION
667mm 26.3in   571mm 22.5in   510mm 20.1in   105mm 4.1in

PRODUCT SPECIFICATIONS: FL100™ RGBW-IM (INNER MIXING)

ELECTRICAL	Rated Input Voltage	48VDC		380VDC		85~264VAC or 85~277VAC	
	Power Consumption (max.)	100W		100W		100W	

OPTICAL	Light Source	18 x High Power 4 in 1 LEDs					
	CRI	70					

		Color	Wave Length (nm)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)
COLOR-AMP Output (typical) 10°		Red	617	1,790	41,300	1,620	37,170	1,440	33,040
		Green	520	2,610	62,300	2,350	56,060	2,090	49,840
		Blue	453	770	17,660	690	15,890	610	14,130
		White	6700K	4,660	111,880	4,190	100,690	3,730	90,620

Optics	High optical efficiency PMMA TIR Lens, Micro Lense Film, Tempered Glass Cover Lens
Beam Angle (FWHM)	10 (10°x10°), 20 (20°x20°), 40 (40°x40°), 60 (60°x60°), 80 (80°x80°), 90 (90°x90°), 10x40 (10°x40°), 40x10 (40°x10°), 10x60 (10°x60°), 60x10 (60°x10°), 30x60 (30°x60°), 60x30 (60°x30°)

40° X 10° VERTICAL   10° X 40° HORIZONTAL

	Projected Lumen Maintenance	L70 > 60,000hrs @ Ta =50°C (122°F)

CONTROL	Control Interface	DMX control through GVA's Power-Data Equipment

PHYSICAL	Size (HxWxD)	276 x 304 x 87 mm (10.8 x 12.0 x 3.4 in)
	Weight	5 kg (11 lbs)
	Housing	Anodized 6061 Aluminum Alloy
	Fixture Connections	IP68 Connectors
	Rated Operation Temperature	-40°C (-40°F) to +50°C (122°F)
	Environment	Dry, Damp or Wet Locations, 0-100% humidity

CERTIFICATION & SAFETY	Listings	RoHS, REACH
	IEC Classifications	Class 1 LED Luminaire

CE   ANSI C136.31-2010   RoHS   REACH   DRY   DAMP   WET

Constructed to meet requirements outlined in UL1598 & IEC60598

Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications

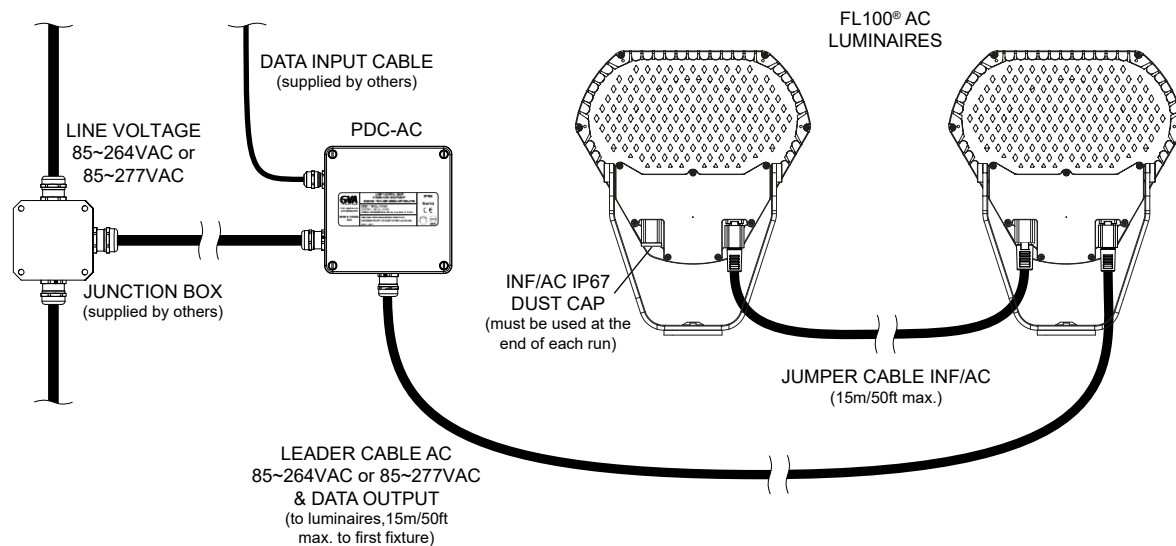These figures are subject to change due to further development and innovations of LED light sources.

GVA Lighting, Inc. 3400 Ridgeway Drive, #14 Missisauga, Ontario L5L 0A2
Tel: + 1 905 569 6044 Email: info@gvalighting.com

SP-FL100 RGBW-IM, 19-01-03 | Page 2 / 5
gvalighting.com

TYPICAL SYSTEM DIAGRAM: AC (WITH CONTROL)

NOTE: Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.

FL100® AC
LUMINAIRES

DATA INPUT CABLE
(supplied by others)

LINE VOLTAGE
85~264VAC or
85~277VAC

PDC-AC

INF/AC IP67
DUST CAP
(must be used at the
end of each run)

JUNCTION BOX
(supplied by others)

JUMPER CABLE INF/AC
(15m/50ft max.)

LEADER CABLE AC
85~264VAC or 85~277VAC
& DATA OUTPUT
(to luminaires,15m/50ft
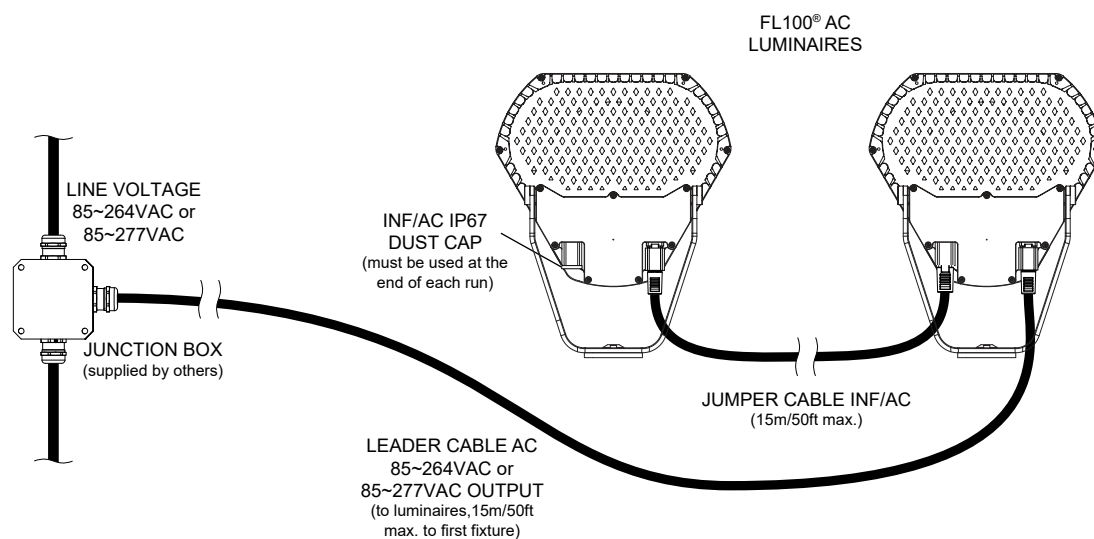max. to first fixture)

TYPICAL SYSTEM DIAGRAM: AC (WITHOUT CONTROL)

NOTE: Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.
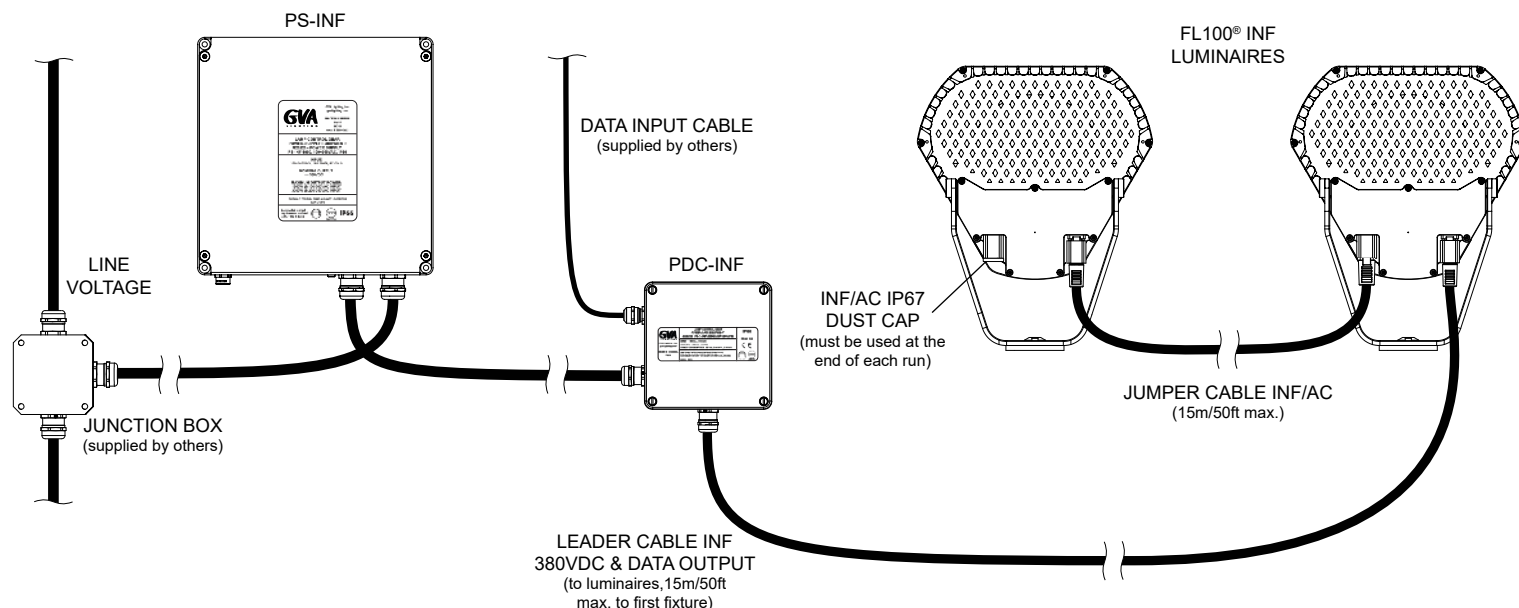
FL100® AC
LUMINAIRES

INF/AC IP67
DUST CAP
(must be used at the
end of each run)

LINE VOLTAGE
85~264VAC or
85~277VAC

JUNCTION BOX
(supplied by others)

JUMPER CABLE INF/AC
(15m/50ft max.)

LEADER CABLE AC
85~264VAC or
85~277VAC OUTPUT
(to luminaires,15m/50ft
max. to first fixture)

FL100™

INFINITY GVA TECHNOLOGY **COLOR-AMP** GVA TECHNOLOGY

GVA LIGHTING

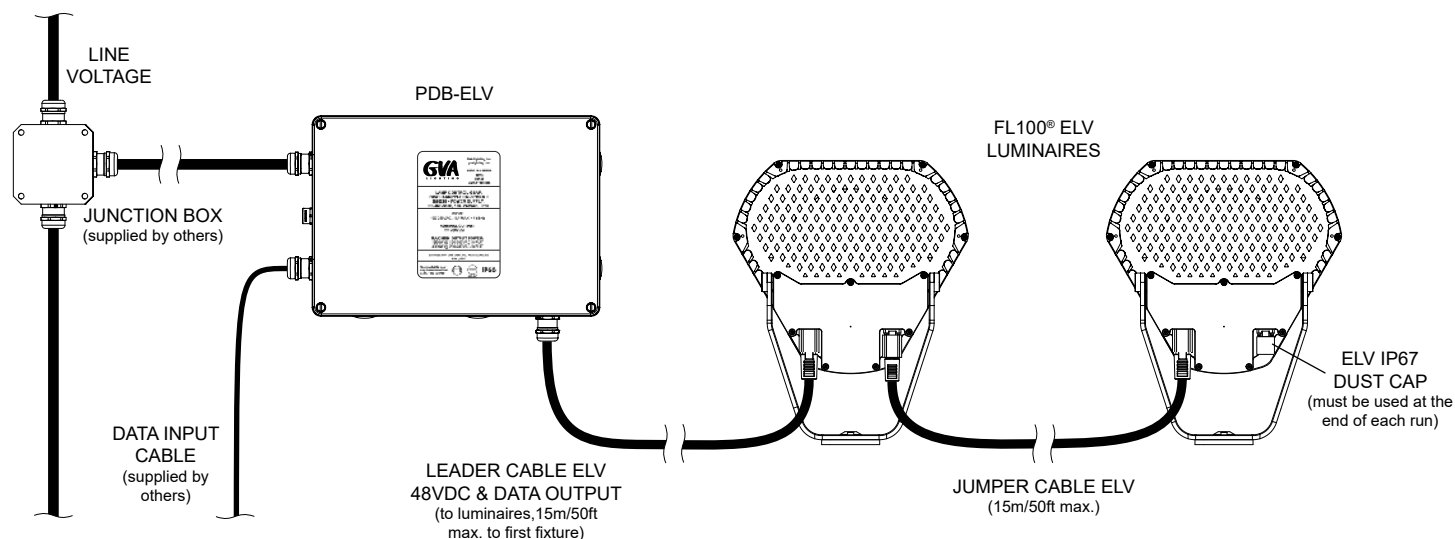**RGBW Inner-Mixing Architectural Spot and Floodlight**

TYPICAL SYSTEM DIAGRAM: INFINITY® (WITH CONTROL)

NOTE: Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.

PS-INF

FL100® INF LUMINAIRES

DATA INPUT CABLE
(supplied by others)

LINE VOLTAGE

PDC-INF

INF/AC IP67 DUST CAP
(must be used at the end of each run)

JUNCTION BOX
(supplied by others)

JUMPER CABLE INF/AC
(15m/50ft max.)

LEADER CABLE INF
380VDC & DATA OUTPUT
(to luminaires,15m/50ft
max. to first fixture)

TYPICAL SYSTEM DIAGRAM: ELV (WITH CONTROL)

NOTE: Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.
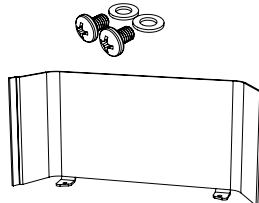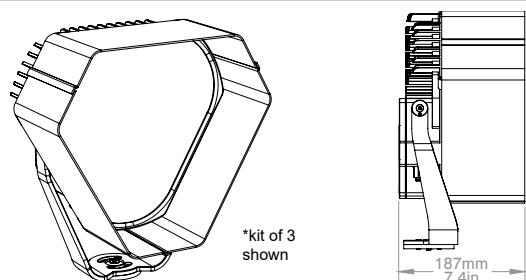

LINE VOLTAGE

PDB-ELV

FL100® ELV LUMINAIRES

JUNCTION BOX
(supplied by others)

ELV IP67 DUST CAP
(must be used at the end of each run)

DATA INPUT CABLE
(supplied by others)

LEADER CABLE ELV
48VDC & DATA OUTPUT
(to luminaires,15m/50ft
max. to first fixture)

JUMPER CABLE ELV
(15m/50ft max.)

GVA Lighting, Inc. 3400 Ridgeway Drive, #14 Mississauga, Ontario L5L 0A2
Tel: + 1 905 569 6044 Email: info@gvalighting.com

SP-FL100 RGBW-IM, 19-01-03 | Page 4 / 5
gvalighting.com

ORDERING LOGIC: ACCESSORIES

VISORS

*kit of 3 shown

187mm
7.4in

COLOR	KIT OF 1	KIT OF 2	KIT OF 3
Clear Matte Anodized	121884	121887	121890
Black Matte Anodized	121885	121888	121891
Custom Color	121886	121889	121892

* kit includes mounting hardware

BARN DOORS

*kit of 3 shown

187mm
7.4in
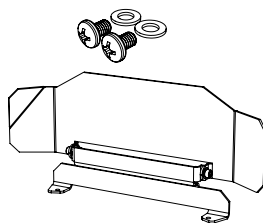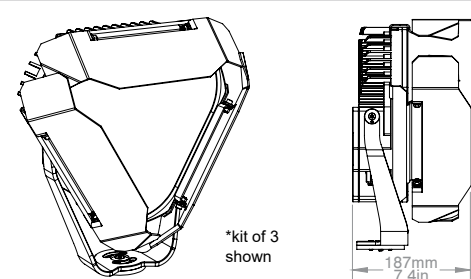
COLOR	KIT OF 1	KIT OF 2	KIT OF 3
Clear Matte Anodized	121893	121896	121899
Black Matte Anodized	121894	121897	121900
Custom Color	121895	121898	121901

* kit includes mounting hardware

ORDERING LOGIC: COMMON ACCESSORIES

90 DEG ANGLE ADAPTERS

150mm
5.9in

105mm
4.1in

138mm
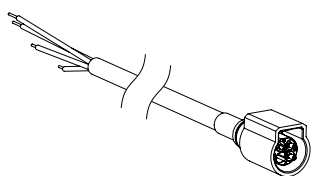5.4in
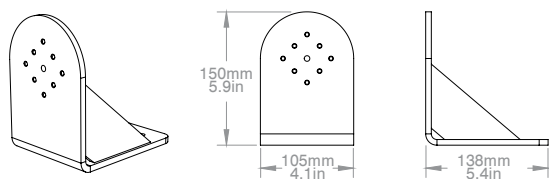
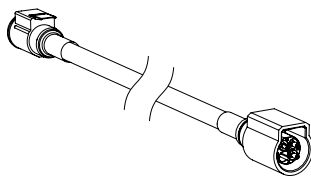| COLOR	PART NUMBERS
Clear Matte Anodized	121718
Black Matte Anodized	121719
Custom Color	121720

* for use with SM300, SM400, or SM500 brackets
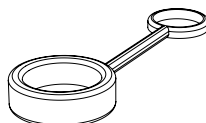
ORDERING LOGIC: COMMON COMPONENTS

LEADER CABLES

NOMINAL LENGTH	ELV	INF	AC
3m (10ft)	140723	140725	140858
9m (30ft)	140733	140710	140859
15m (50ft)	140724	140726	140860
CUSTOM	140732	140727	140861

JUMPER CABLES

NOMINAL LENGTH	ELV	INF/AC
0.9m (3ft)	140729	140709
1.8m (6ft)	140730	140734
3.6m (12ft)	140731	140735
CUSTOM	140728	140708

CONNECTOR DUST CAP, IP67 (must be used at the end of each run)

ELV	INF/AC
231182	230855

GVA Lighting, Inc. 3400 Ridgeway Drive, #14 Missisauga, Ontario L5L 0A2
Tel: + 1 905 569 6044 Email: info@gvalighting.com

SP-FL100 RGBW-IM, 19-01-03 | Page 5 / 5
gvalighting.com