FL50

INFINITY® GVA TECHNOLOGY

GVA LIGHTING

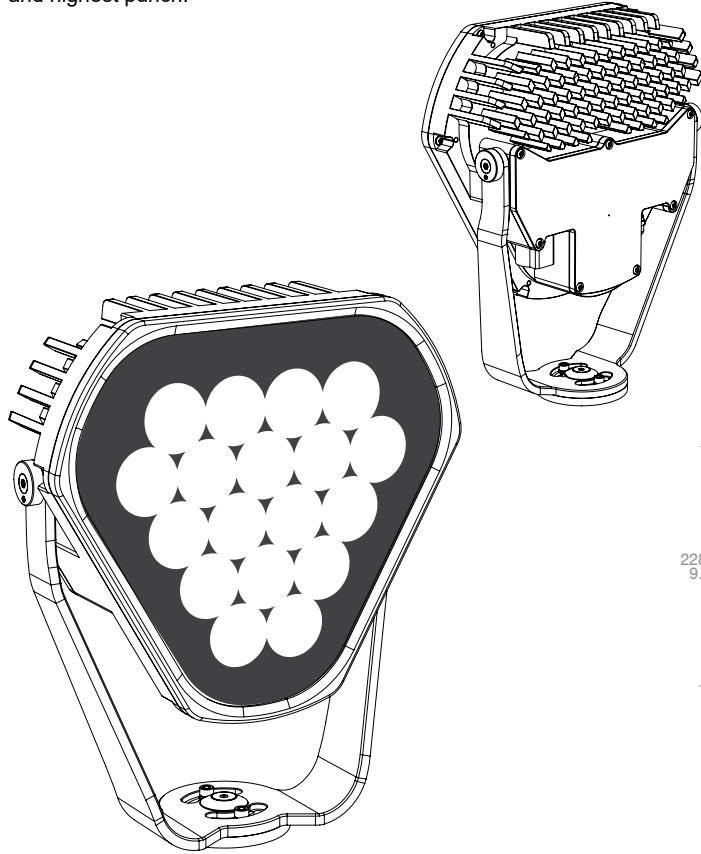## RGBW Outer Mixing Architectural Spot and Floodlight

Color mixing outside of the fixture for the best performance, color mixing and highest punch.

DATE:	
TYPE:	
COMPANY:	
PROJECT:	

360° ROTATION

160° VERTICAL ROTATION

78mm 3.1in
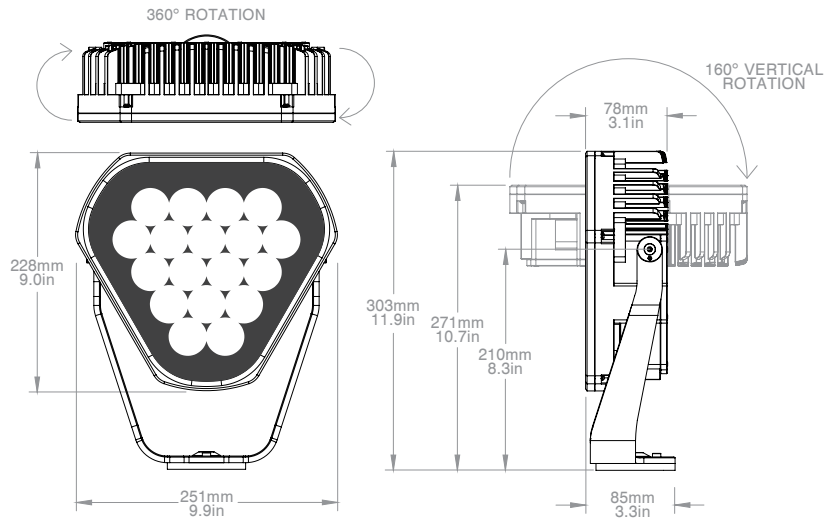
228mm 9.0in

303mm 11.9in

271mm 10.7in

210mm 8.3in

251mm 9.9in

85mm 3.3in

*SM200 bracket mounting option shown.
See page 2 for more mounting options.

FEATURES:

- Ultra narrow 4.5° beam angle
- INFINITY® Technology compatible (INF)
- Built-in high temperature power supply (AC)
- Plug-and-play with STR9® luminaires
- IP66 sealed body design
- Advanced thermal design with cutting-edge manufacturing process and materials
- Compact size, only 78mm (3.1in) in depth
- Weight of only 3kg (6.6lbs)
- Highly adjustable with 360° horizontal rotation and 160° vertical rotation

OPTIONS:

- Wide range of LED colors available
- Beam angles ranging from 4° to 85° with elliptical distribution options
- 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 (85~277VAC) input options
- Range of bracket lengths and mounting options

SPECIFICATION LOGIC: FL50 RGBW-OM (OUTER MIXING)

FAMILY	BODY COLOR	LED COLOR	OPTICS(FWHM)*	VOLTAGE	MOUNTING OPTION
FL50	**BM** - Black Matte Anodized **CM** - Clear Matte Anodized **CUST** - Custom Color[1]	RGBW22K-OM [3] **RGBW27K-OM** **RGBW30K-OM** **RGBW35K-OM** **RGBW40K-OM** **RGBW50K-OM** **RGBW65K-OM**	**4** - 4.5°x4.5° **7** - 7°x7° **10** - 10°x10° **20** - 20°x20° **40** - 40°x40° **55** - 55°x55° **75** - 75°x75° **85** - 85°x85° **10x40** - 10°x40° H **40x10** - 40°x10° V **10x60** - 10°x60° H **60x10** - 60°x10° V **30x55** - 30°x55° H **55x30** - 55°x30° V	**ELV** - 48VDC **INF** - 380VDC **AC277** - 85~277VAC	**SM120** - Surface Mount 120mm[1] **SM200** - Surface Mount 200mm[1] **SM300** - Surface Mount 300mm[1] **SM400** - Surface Mount 400mm[1] **SM500** - Surface Mount 500mm[1] SMXXX - Surface Mount Custom[1] (specify length) **TM200** - Tenon Mount 200mm[1] PM - Pole Mount[1]

PRODUCT CONFIGURATION
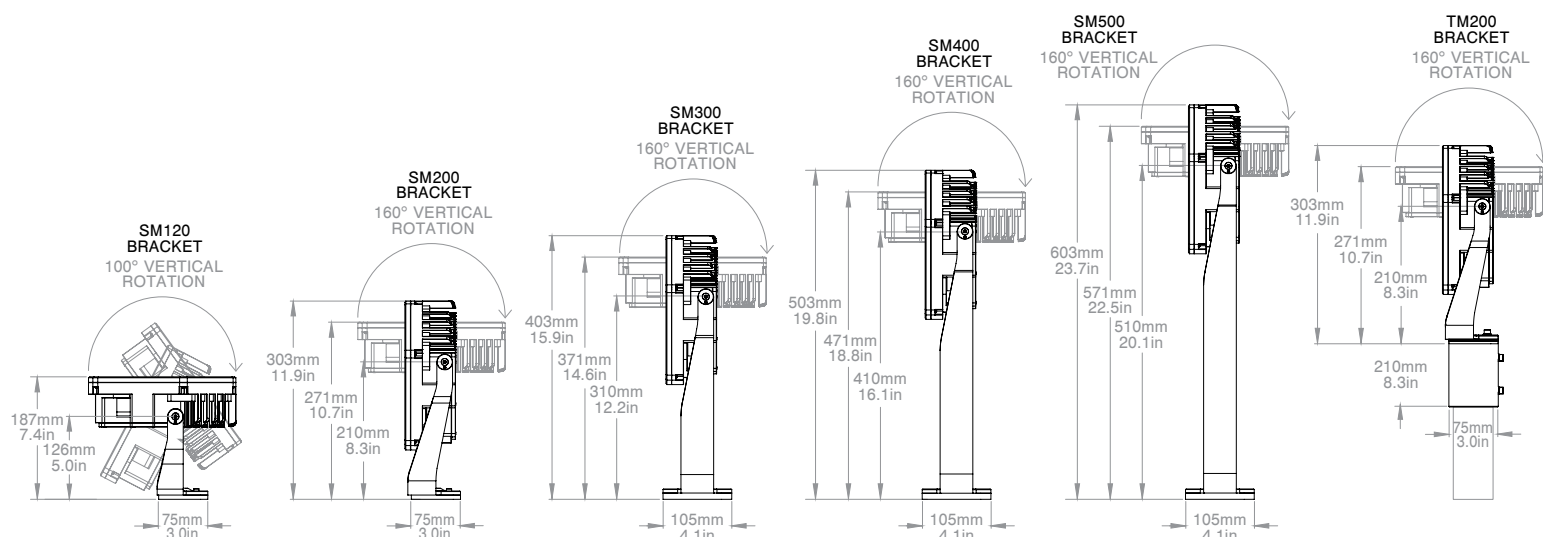

1. Non standard option and might require longer leadtime than usual. Contact factory for details.

Nominal values are used. Actual measurements may differ slightly.
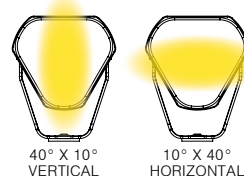
GVA Lighting, Inc. 3400 Ridgeway Drive, #14 Missisauga, Ontario L5L 0A2
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RGBW Outer Mixing Architectural Spot and Floodlight

FL50 MOUNTING BRACKET OPTIONS

SM120 BRACKET — 100° VERTICAL ROTATION
187mm 7.4in, 126mm 5.0in, 75mm 3.0in

SM200 BRACKET — 160° VERTICAL ROTATION
303mm 11.9in, 271mm 10.7in, 210mm 8.3in, 75mm 3.0in

SM300 BRACKET — 160° VERTICAL ROTATION
403mm 15.9in, 371mm 14.6in, 310mm 12.2in, 105mm 4.1in

SM400 BRACKET — 160° VERTICAL ROTATION
503mm 19.8in, 471mm 18.8in, 410mm 16.1in, 105mm 4.1in

SM500 BRACKET — 160° VERTICAL ROTATION
603mm 23.7in, 571mm 22.5in, 510mm 20.1in, 105mm 4.1in

TM200 BRACKET — 160° VERTICAL ROTATION
303mm 11.9in, 271mm 10.7in, 210mm 8.3in, 210mm 8.3in, 75mm 3.0in

PRODUCT SPECIFICATIONS: FL50 RGBW-OM (OUTER MIXING)

ELECTRICAL				48VDC		380VDC		85~277VAC	
	Rated Input Voltage			48VDC		380VDC		85~277VAC	
	Power Consumption (max.)			50W		60W		70W	

OPTICAL				Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)
	Light Source		18 x High Power LEDs						
	CRI		80[1]						
		Color	Wave Length (nm)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)
	Output (typical) 4°	Red	620	N/A	N/A	N/A	N/A	N/A	N/A
		Green	525	N/A	N/A	N/A	N/A	N/A	N/A
		Blue	470	N/A	N/A	N/A	N/A	N/A	N/A
		White	4000K[3]	N/A	N/A	N/A	N/A	N/A	N/A
		All On	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Output (typical)[2] 7°	Red	620	411	12,465	411	12,465	411	12,465
		Green	525	673	19,410	673	19,410	673	19,410
		Blue	470	294	8,016	294	8,016	294	8,016
		White	4000K[3]	1,252	28,657	1,252	28,657	1,252	28,657
		All On	N/A	2,910	190,220	2,910	190,220	2,910	190,220
	Optics		High optical efficiency PMMA TIR Lens, Micro Lense Film, Tempered Glass Cover Lens						
	Beam Angle (FWHM)		4 (4.5°X4.5°), 7 (7°x7°), 10 (10°x10°), 20 (20°x20°), 40 (40°x40°), 55 (55°x55°), 75 (75°x75°), 85 (85°x85°), 10x40 (10°x40°), 40x10 (40°x10°), 10x60 (10°x60°), 60x10 (60°x10°), 30x55 (30°x55°), 55x30 (55°x30°)						
	Projected Lumen Maintenance		L70 > 60,000hrs @ Ta =50°C (122°F)						

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

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

PHYSICAL		
	Body Size (HxWxD)	228 x 251 x 78 mm (9.0 x 9.9 x 3.1 in)
	Weight	3.0 kg (6.6 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

RoHS   REACH   DRY DAMP WET

Constructed to meet requirements outlined in UL1598 & IEC60598

Constructed to meet ANSI C136.31 3G Vibration standard for bridge and overpass applications

1. Minimum 90 CRI also available.
2. Measured with 7° fixture configuration. Luminous flux may be lower with other configurations.
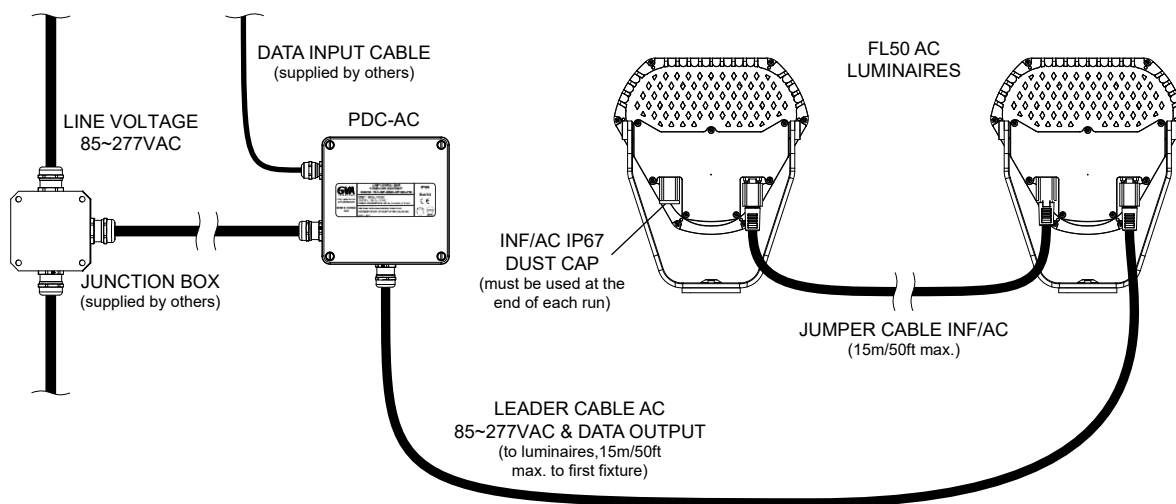3. Warmer color temperatures typically have a lower lumen output.

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

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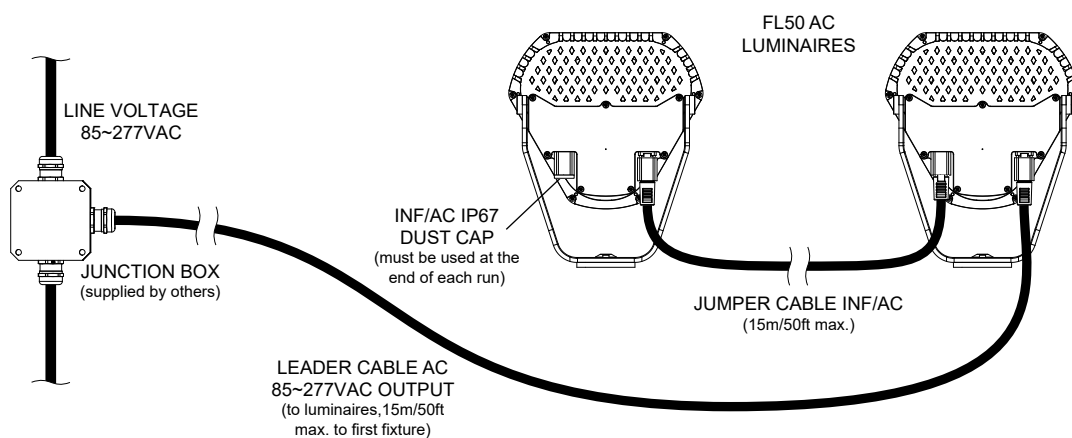RGBW Outer Mixing Architectural Spot and Floodlight

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.

DATA INPUT CABLE
(supplied by others)

FL50 AC
LUMINAIRES

LINE VOLTAGE
85~277VAC

PDC-AC

JUNCTION BOX
(supplied by others)

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

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

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

TYPICAL SYSTEM DIAGRAM: AC (WITH NO CONTROL)

NOTE: Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.
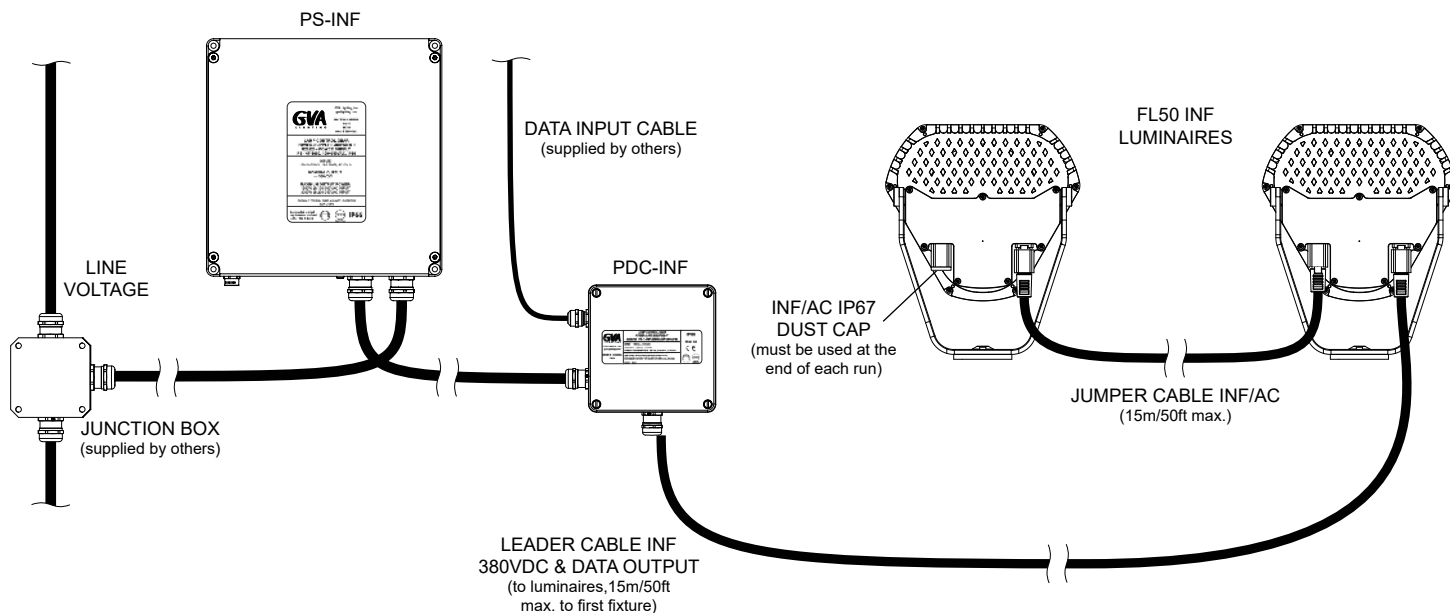
FL50 AC
LUMINAIRES

LINE VOLTAGE
85~277VAC

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

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

JUNCTION BOX
(supplied by others)

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

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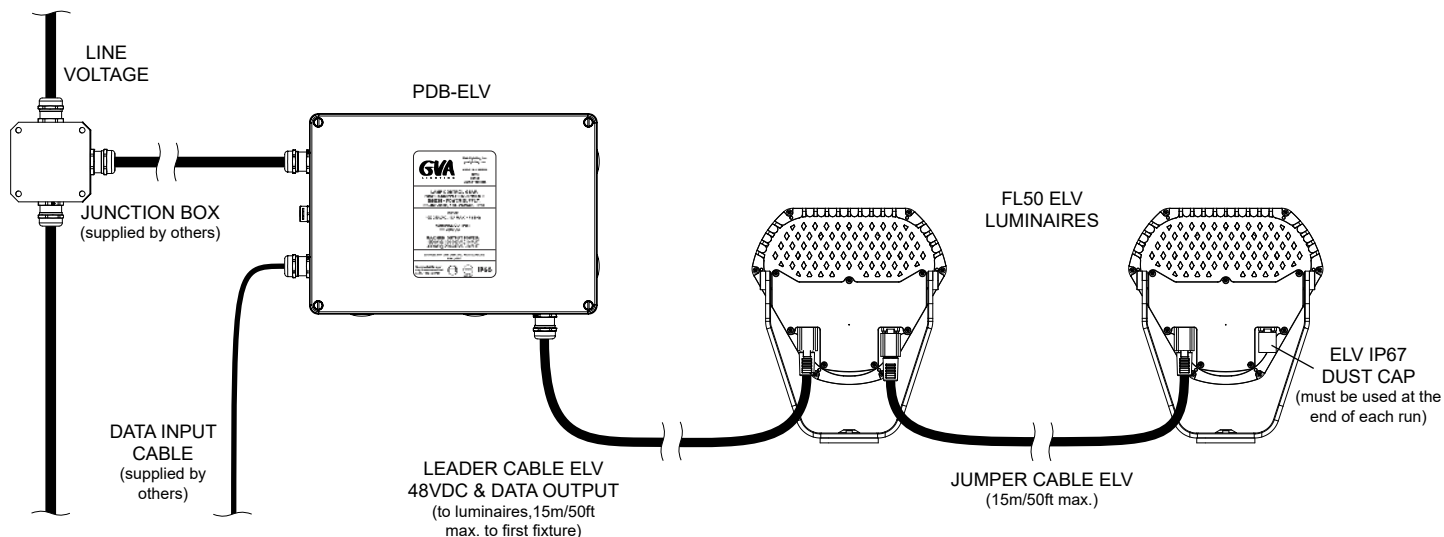**RGBW Outer Mixing Architectural Spot and Floodlight**

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

DATA INPUT CABLE
(supplied by others)

FL50 INF
LUMINAIRES

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.
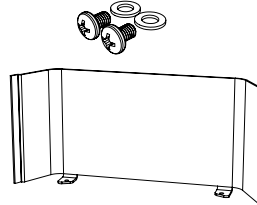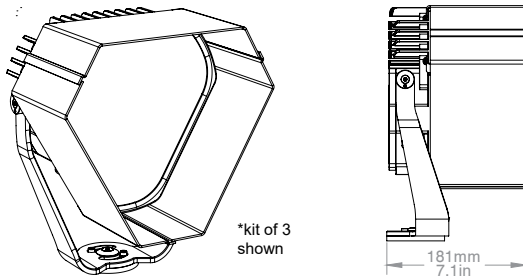
LINE
VOLTAGE

PDB-ELV

FL50 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.)

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ORDERING LOGIC: ACCESSORIES

VISORS

COLOR	KIT OF 1	KIT OF 2	KIT OF 3
Clear Matte Anodized	122228	122231	122234
Black Matte Anodized	122229	122232	122235
Custom Color	122230	122233	122236

*kit of 3 shown

181mm 7.1in

* kit includes mounting hardware

BARN DOORS
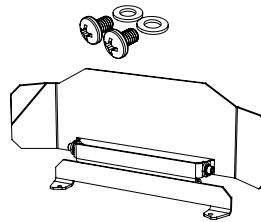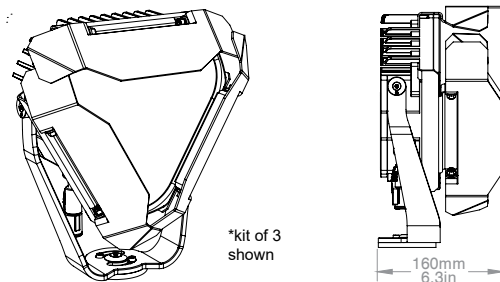
COLOR	KIT OF 1	KIT OF 2	KIT OF 3
Clear Matte Anodized	122237	122240	122243
Black Matte Anodized	122238	122241	122244
Custom Color	122239	122242	122245

*kit of 3 shown

160mm 6.3in

* kit includes mounting hardware

ORDERING LOGIC: COMMON ACCESSORIES

90 DEG ANGLE ADAPTERS

150mm 5.9in
105mm 4.1in
138mm 5.4in
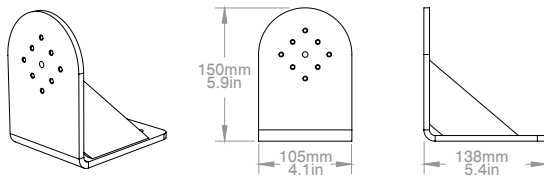
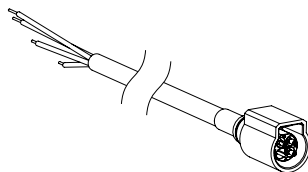| COLOR	PART NUMBERS
Clear Matte Anodized	121718
Black Matte Anodized	121719
Custom Color	121720

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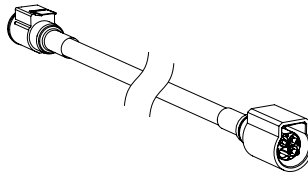
NOMINAL LENGTH	ELV	INF/AC
0.9m (3ft)	140729	140709
1.8m (6ft)	140730	140734
3.6m (12ft)	140731	140735
CUSTOM	140728	140708

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

ELV	INF/AC
231182	230855

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