

RGBW Outer-Mixing Architectural Spot and Floodlight

PRODUCT SPECIFICATION SHEET

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

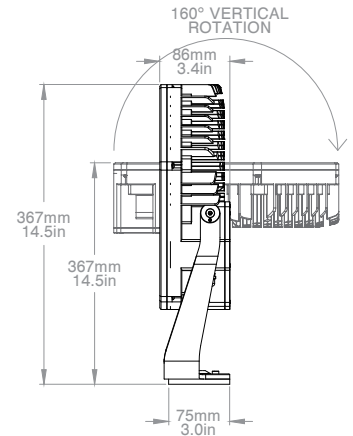
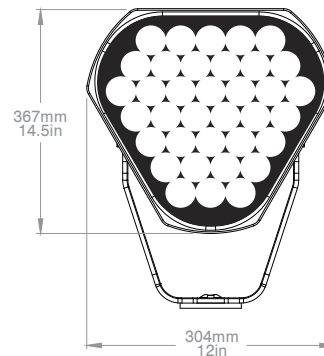
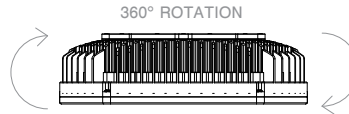


DATE:

TYPE:

COMPANY:

PROJECT:



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

FEATURES:

- Ultra narrow 4° beam angle
- Compact size, only 86mm (3.34in) in depth
- Weight of only 5kg (11lbs)
- Advanced thermal design with cutting-edge manufacturing process and materials
- Highly adjustable with 360° horizontal rotation and 160° vertical rotation
- INFINITY® Technology compatible (INF)
- Built-in high temperature power supply (AC)
- Plug-and-play with STR9® luminaires
- Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications, taking into consideration wind and traffic vibrations

OPTIONS:

- Beam angles ranging from 4° to 75° with elliptical distribution options
- Custom color combinations available from LED selection of FL100 Monochromatic. Ex: RGBA, RRGB...
- Optical accessories for glare control
- Black matte and clear matte anodized colors
- ELV (48VDC), INF (380VDC) and AC (85-264VAC) input options

SPECIFICATION LOGIC: FL100™ OUTER MIXING

FAMILY	BODY COLOR	LED COLOR	OPTICS(FWHM)*	VOLTAGE	MOUNTING OPTION
FL100	BM - Black Matte Anodized CM - Clear Matte Anodized	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° 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 AC - 85-264VAC ²	SM120 - Surface Mount 120mm ¹ SM200 - Surface Mount 200mm SM300 - Surface Mount 300mm ¹ SM400 - Surface Mount 400mm ¹ SM500 - Surface Mount 500mm ¹ SMXXX - Surface Mount Custom ¹ (specify length) SF - Slip Fit 2in ¹ PM - Pole Mount ¹

PRODUCT CONFIGURATION

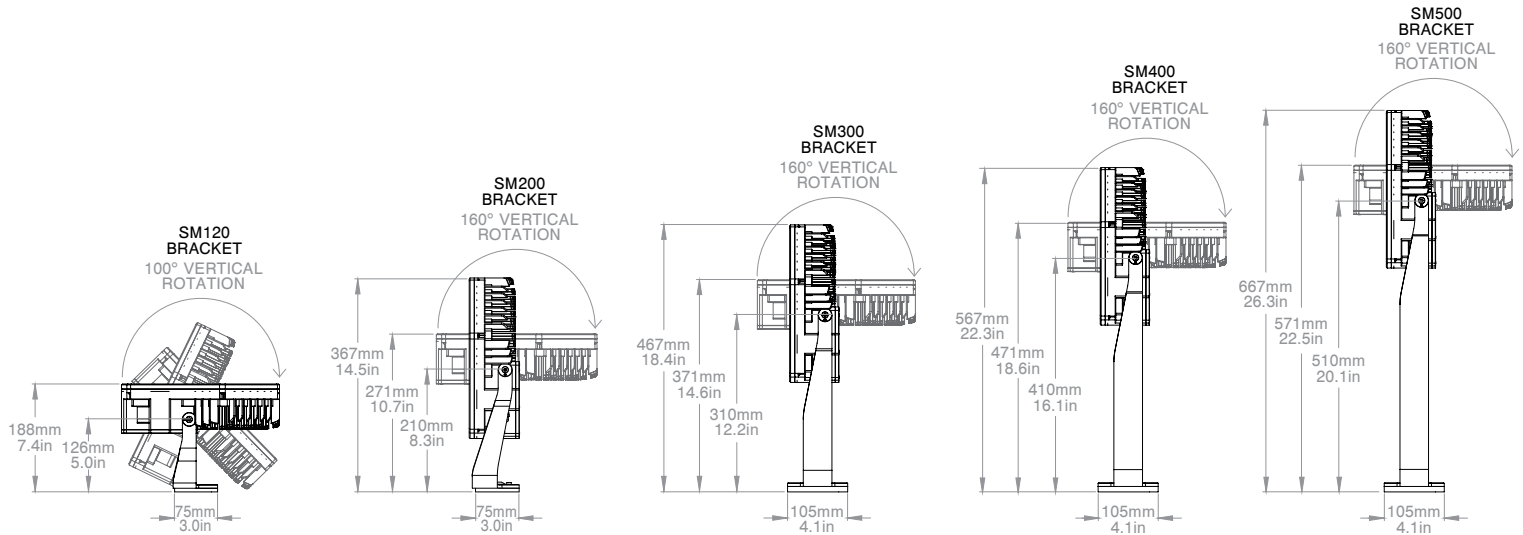
1. Custom color combinations are available from the color selection of FL100 Monochromatic. Contact GVA for more information.
2. 277VAC version in development.
3. Non standard option and might require longer leadtime than usual.

* Nominal valves are used. Actual measurements may differ slightly.







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MOUNTING BRACKET OPTIONS



PRODUCT SPECIFICATIONS: FL100™ RGBW-OM (OUTER MIXING)

ELECTRICAL	Rated Input Voltage		48VDC		380VDC		85-264VAC		
	Power Consumption (max.)		100W		100W		100W		
OPTICAL	Light Source		36 x High Power LEDs						
	CRI		80 ¹						
	Output (typical) 4°	Color	Wave Length (nm)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)
		Red	620	850	69,250	770	62,330	680	55,400
		Green	525	1,600	135,640	1,440	122,080	1,280	108,510
		Blue	470	680	51,720	610	46,540	540	41,370
		White	4000K	2,230	181,050	2,010	162,940	1,790	144,840
		All On	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Output (typical) ² 7°+	Red	620	500	36,000	450	32,400	400	28,800
		Green	525	1100	79,000	990	71,100	880	63,200
		Blue	470	730	36,000	657	32,400	584	28,800
		White	4000K	2600	N/A	2340	109,800	2080	97,600
		All On	N/A	3272	126,599	2945	113,940	2650	102,546
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°), 15 (15°x15°), 20 (20°x20°), 30 (30°x30°), 55 (55°x55°), 75 (75°x75°), 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							
CONTROL	Control Interface		DMX control through GVA's Power-Data Equipment						
PHYSICAL	Size (HxWxD)		mm	304 x 367 x 86					
			inches	11.96 x 14.45 x 3.38					
	Weight		kg	5					
			lbs	11					
	Housing		Anodized 6061 Aluminum Alloy						
	Fixture Connections		IP68 Connectors						
	Rated Operation Temperature		-40°C to +50°C, -22°F to 122°F						
CERTIFICATION & SAFETY	Environment		Dry, Damp or Wet Locations, 0-100% humidity						
	Listings		RoHS						
	IEC Classifications		Class 1 LED Luminaire						
			     					Constructed to meet requirements outlined in UL1598 & IEC60598	
							Meets 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.

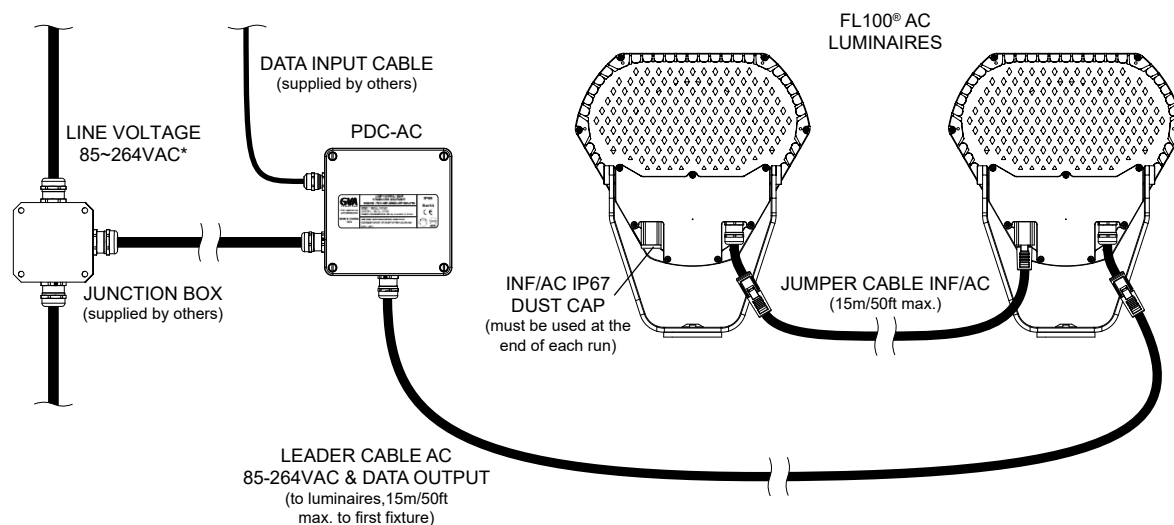
These figures are subject to change due to further development and innovations of LED light sources. This product is in its early release stage. The data above is in preliminary stage until full release.

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TYPICAL SYSTEM DIAGRAM: AC (WITH CONTROL)

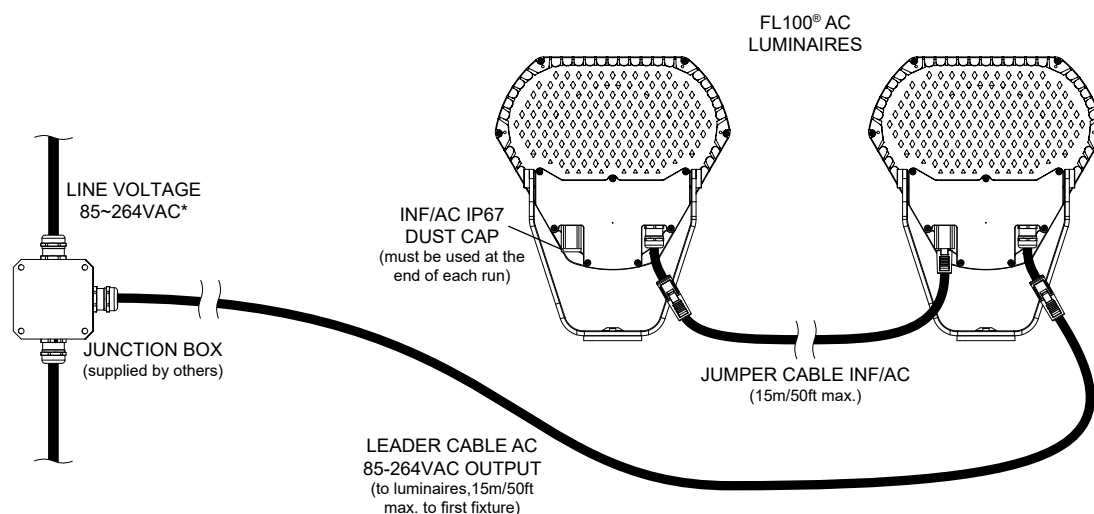
NOTE: Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.



* 277VAC version in development, consult factory for details

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.



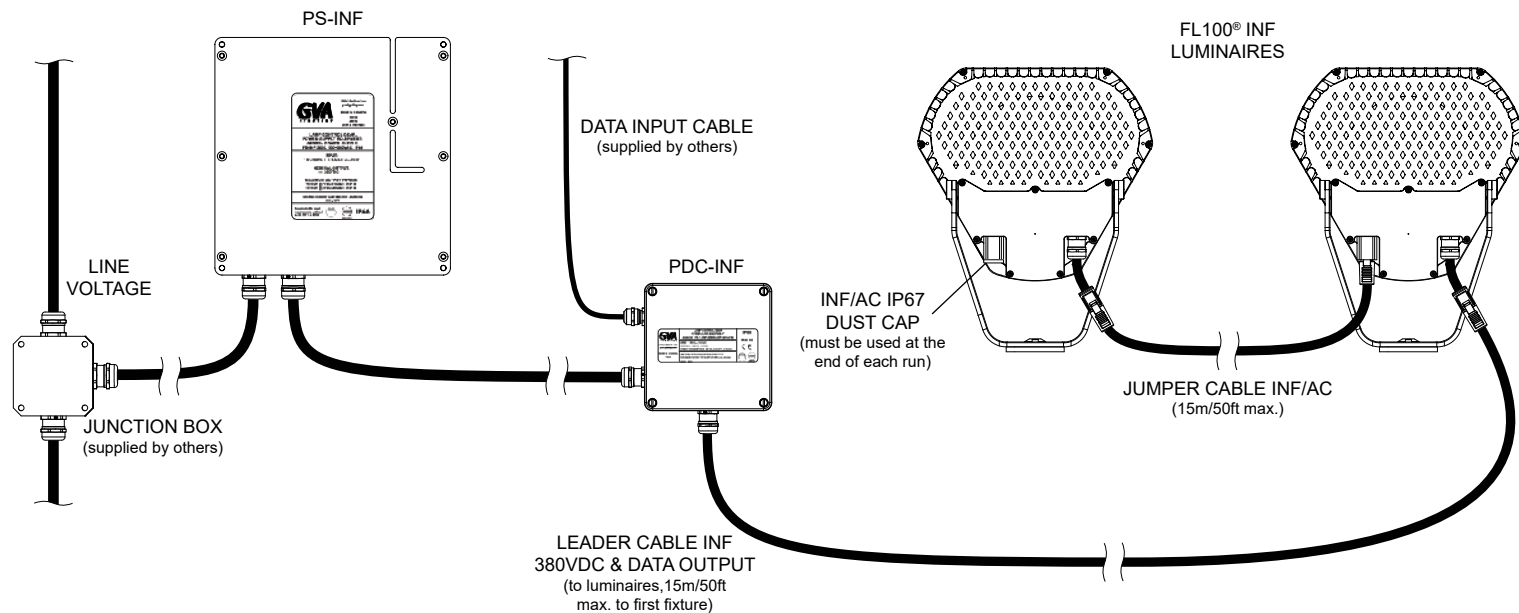
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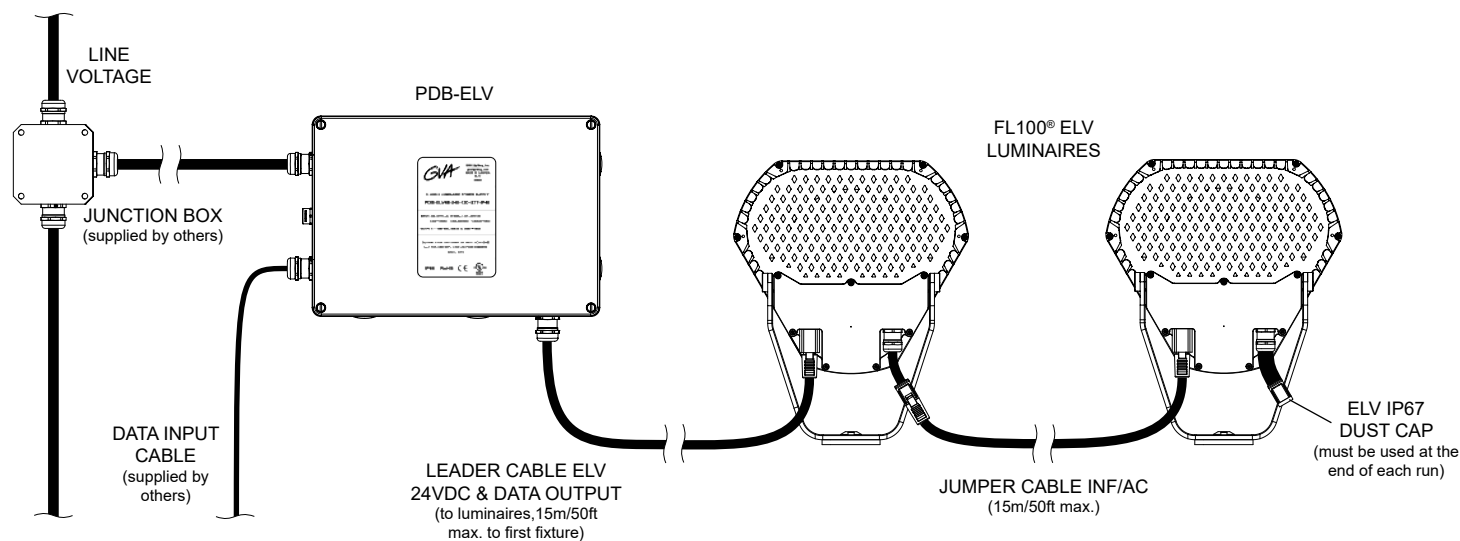
TYPICAL SYSTEM DIAGRAM: INFINITY® (WITH CONTROL)

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



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.

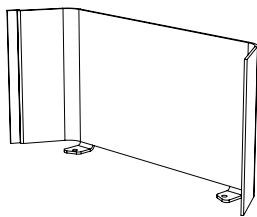


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ORDERING LOGIC: ACCESSORIES

VISORS



COLOR

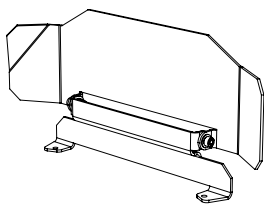
Clear Matte Anodized
Black Matte Anodized
Custom Anodized

PART NUMBER

121565
121566
121567

* Individual items, for a full set, order quantity of 3

BARN DOORS



COLOR

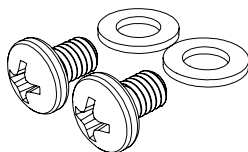
Clear Matte Anodized
Black Matte Anodized
Custom Anodized

PART NUMBER

121568
121569
121570

* Individual items, for a full set, order quantity of 3

SCREW SETS



COLOR

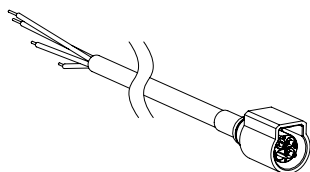
PART NUMBER

121571

*Order 1 per every single visor or barn door ordered

ORDERING LOGIC: COMMON COMPONENTS

LEADER CABLES



LEADER CABLE ELV

NOMINAL LENGTH

3m (10ft)
9m (30ft)
15m (50ft)
CUSTOM

PART NUMBER

140723
140733
140724
140732

LEADER CABLE INF

3m (10ft)
9m (30ft)
15m (50ft)
CUSTOM

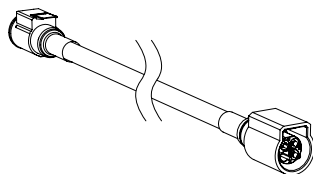
140725
140710
140726
140727

LEADER CABLE AC

3m (10ft)
9m (30ft)
15m (50ft)
CUSTOM

140858
140859
140860
140861

JUMPER CABLES



JUMPER CABLE ELV

0.9m (3ft)
1.8m (6ft)
3.6m (12ft)
CUSTOM

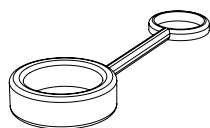
140729
140730
140731
140728

JUMPER CABLE INF/AC

0.9m (3ft)
1.8m (6ft)
3.6m (12ft)
CUSTOM

140709
140734
140735
140708

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



INPUT TYPE

INF/AC
ELV

PART NUMBER

230855
231182