

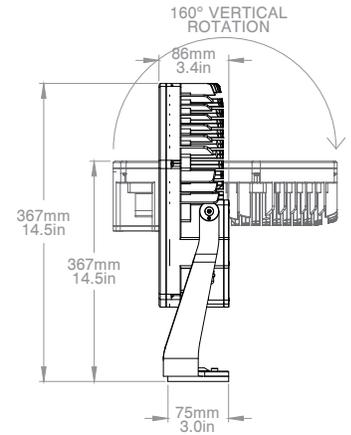
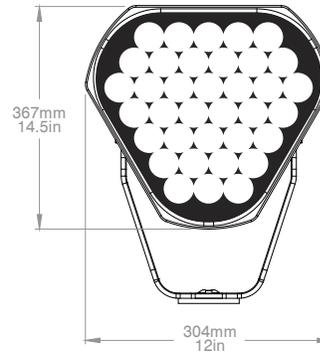
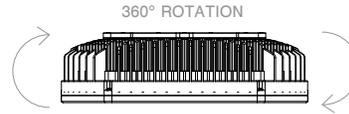
## RGBW Outer-Mixing Architectural Spot and Floodlight

## 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 F100 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 <sup>3</sup>	4 - 4.5°x4.5°	ELV - 48VDC INF - 380VDC AC - 85-264VAC <sup>2</sup>	SM120 - Surface Mount 120mm <sup>1</sup>
		RGBW27K-OM	7 - 7°x7°		SM200 - Surface Mount 200mm
	RGBW30K-OM	10 - 10°x10°	SM300 - Surface Mount 300mm <sup>1</sup>		
	RGBW35K-OM	20 - 20°x20°	SM400 - Surface Mount 400mm <sup>1</sup>		
	RGBW40K-OM	40 - 40°x40°	SM500 - Surface Mount 500mm <sup>1</sup>		
	RGBW50K-OM	55 - 55°x55°	SMXXX - Surface Mount Custom <sup>1</sup> (specify length)		
	RGBW65K-OM	75 - 75°x75°	SF - Slip Fit 2in <sup>1</sup>		
		10x40 - 10°x40° H	PM - Pole Mount <sup>1</sup>		
		40x10 - 40°x10° V			
		10x60 - 10°x60° H			
		60x10 - 60°x10° V			
		30x55 - 30°x55° H			
		55x30 - 55°x30° V			

### PRODUCT CONFIGURATION

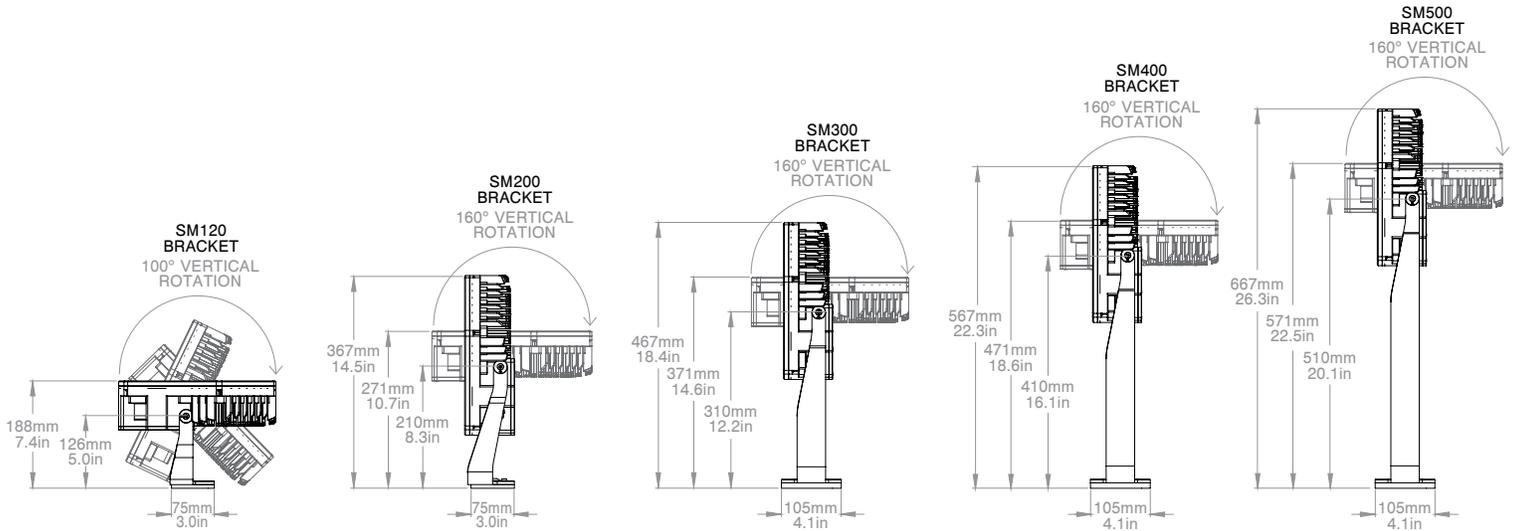
1. Custom color combinations are available from the color selection of FL100 Monochromatic. Contact GVA for more information.  
2. 277VAC version in development.  
3. Non standard option and might require longer leadtime than usual.

\* Nominal values 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 <sup>1</sup>					
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) <sup>2</sup> 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
CONTROL		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					
		Environment	Dry, Damp or Wet Locations, 0-100% humidity					
CERTIFICATION & SAFETY		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.

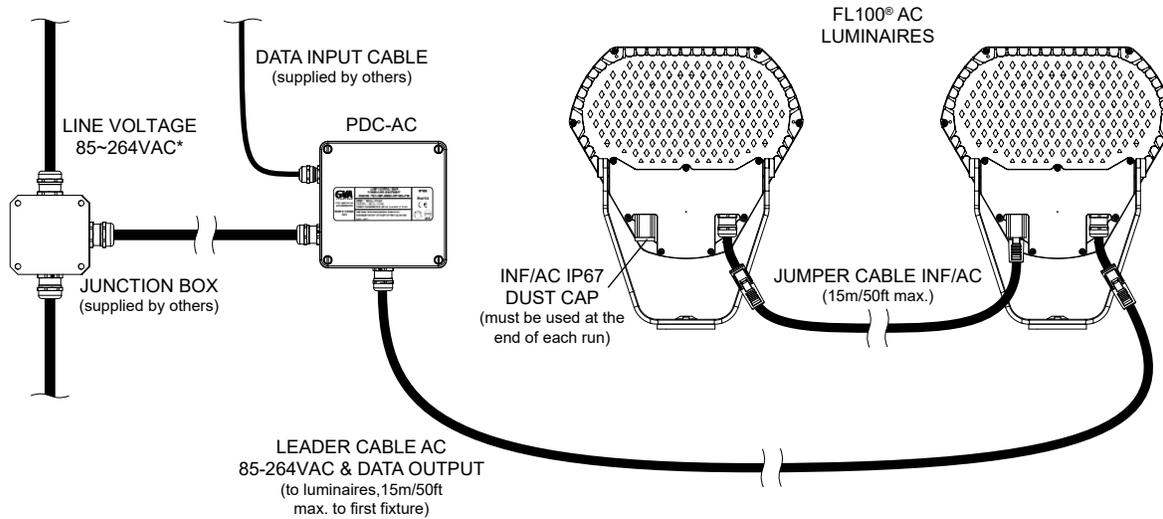
These figures are subject to change due to further development and innovations of LED light sources. This product is in its early release stage. The data above is in preliminary stage until full release.

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### TYPICAL SYSTEM DIAGRAM: AC (WITH CONTROL)

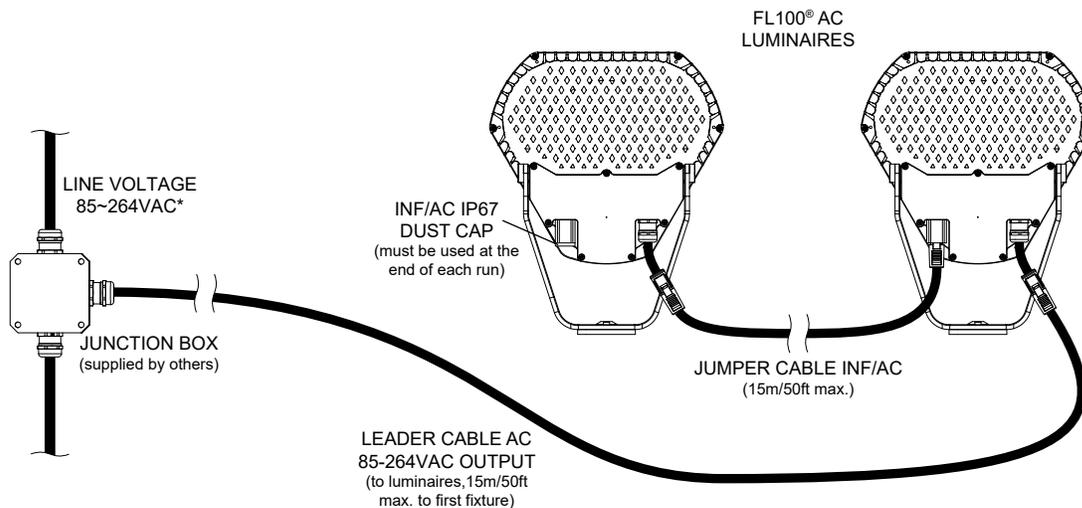
**NOTE:** Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.



\* 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.



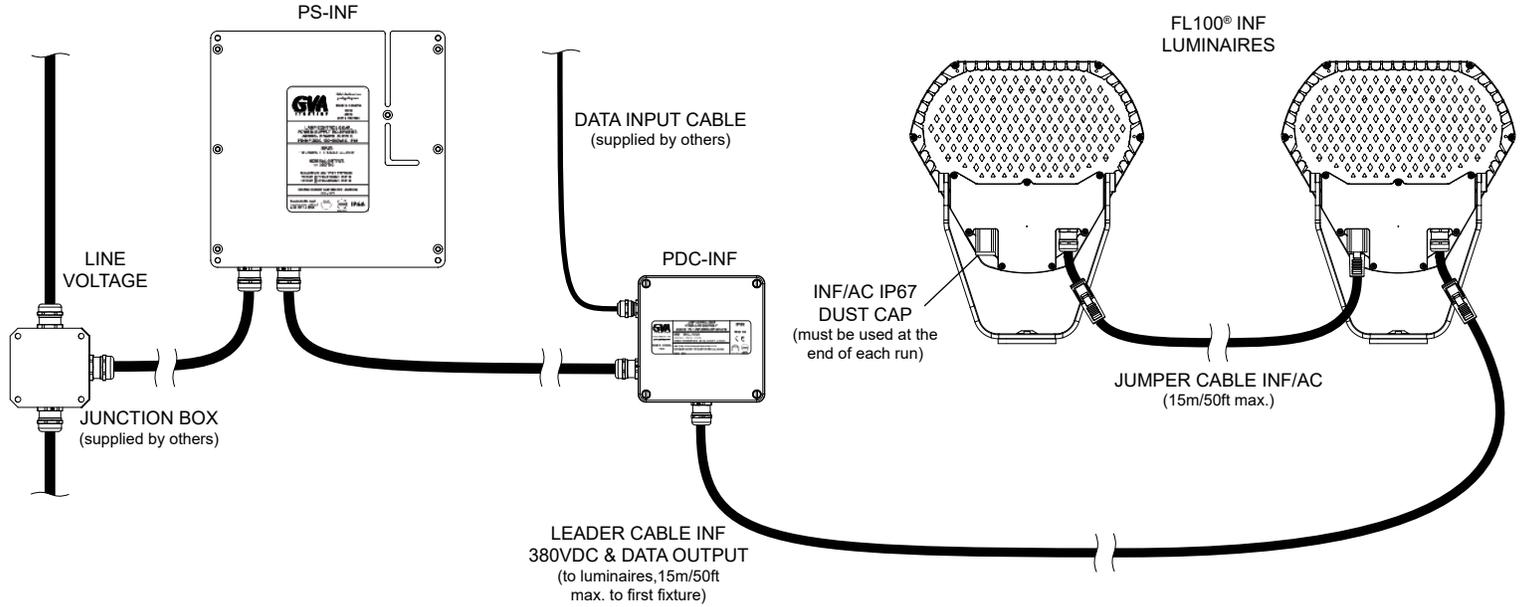
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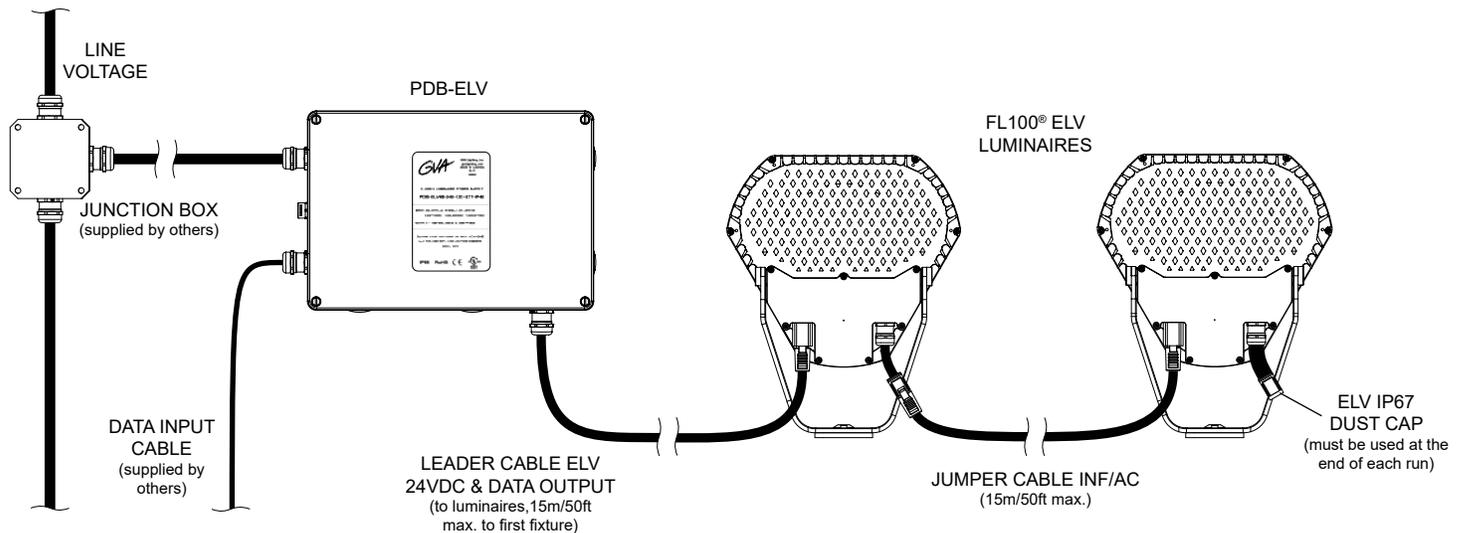
**TYPICAL SYSTEM DIAGRAM: INFINITY® (WITH CONTROL)**

**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)**

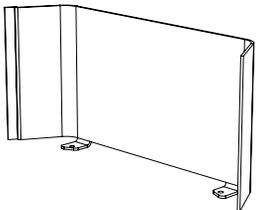
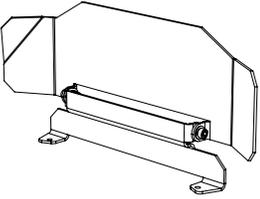
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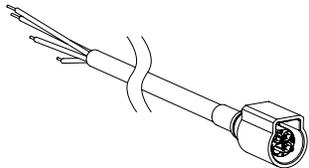
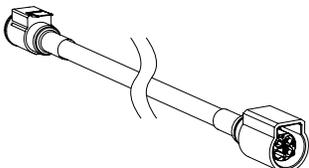
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### ORDERING LOGIC: ACCESSORIES

VISORS		
	COLOR	PART NUMBER
	Clear Matte Anodized	121565
	Black Matte Anodized	121566
	Custom Anodized	121567
	* Individual items, for a full set, order quantity of 3	
BARN DOORS		
	COLOR	PART NUMBER
	Clear Matte Anodized	121568
	Black Matte Anodized	121569
	Custom Anodized	121570
	* Individual items, for a full set, order quantity of 3	
SCREW SETS		
	COLOR	PART NUMBER
		121571
	*Order 1 per every single visor or barndoor ordered	

### ORDERING LOGIC: COMMON COMPONENTS

LEADER CABLES		LEADER CABLE ELV		
		NOMINAL LENGTH	PART NUMBER	
		3m (10ft)	140723	
		9m (30ft)	140733	
		15m (50ft)	140724	
		CUSTOM	140732	
	LEADER CABLE INF			
			3m (10ft)	140725
			9m (30ft)	140710
			15m (50ft)	140726
			CUSTOM	140727
	LEADER CABLE AC			
			3m (10ft)	140858
			9m (30ft)	140859
			15m (50ft)	140860
		CUSTOM	140861	
JUMPER CABLES		JUMPER CABLE ELV		
		0.9m (3ft)	140729	
		1.8m (6ft)	140730	
		3.6m (12ft)	140731	
		CUSTOM	140728	
	JUMPER CABLE INF/AC			
			0.9m (3ft)	140709
			1.8m (6ft)	140734
			3.6m (12ft)	140735
			CUSTOM	140708
	CONNECTOR DUST CAP, IP67 (must be used at the end of each run)			
	INPUT TYPE	PART NUMBER		
	INF/AC	230855		
	ELV	231182		