

# STL-2G-S

Project Name:	
Type:	

**\*Special order 10-12 weeks lead time**



**APPLICATION**

The LED sports light is designed for sports and entertainment venues such as arena, gymnasium, square plaza, airport, high mast, port, spot light, contour lighting, and etc.

**FEATURES:**

- Optimized engineered design, slim and light weight, without any clunky components.
- High thermal conductivity with the use of pure aluminum.
- High Vibration Resistance - meets ANSI C136.31-2001 3G bridge and overpass vibration standards.
- High impact resistance - meets IK10 mechanics impact protection code.
- The low profile and pin structure reduce wind load.
- Operating Temperature: -40°F ~ 104°F ( -40°C to 40°C).
- Max. height for installation: up to 196ft

**MOUNTING:**

- Standard yoke mount is for horizontal high mast mount, adjustable 270°
- Surface trunnion mount (STR) is optional for wall / ceiling mount, adjustable 90°
- Slip Fitter (SF) is optional, only available on 240~535LED model. Adjustable angle of 90° max. for 2-3/8" pole.
- Hook mount (HK) is optional, O-ring is provided.

**OPTIC:**

- 240LED ~ 535LED : 16° / 40° / 60° / 90°
- 550LED ~ 790LED : 16° / 40° / 60°
- 937LED ~ 1200LED : 22° / 40° / 60°
- 1420LED : 22°

**LED:**

- CREE
- Color Rendering Index: >70 is standard. >90 is optional.
- Color Temperature: 4000/5000/5700K
- L70 > 100,000 hours

**ELECTRICAL:**

- 0-10V dimming is standard.
- 100-277V is standard, 347-480 is optional.
- Power Factor: 0.95
- THD: <15%
- 20kV surge protector is standard, 40kV is optional.
- Optional: Zigbee.

**LISTING:**

- UL, cUL listed.
- SAA listed.
- IP67 rated.
- 7 years limited warranty for UNV, 5 years limited warranty for HV.
- US design patent no. US D891,667 S.
- ARRA compliant. (optional)

**CONFIGURATIONS**

Model	Model#	AC Input	Lumen Output	Lumen Efficiency	Beam Angle	EPA Rating W/O Visor	EPA Rating With Visor	Weight (w/o visor)	
STL-2G	240LED	240W	36762 lm	153lm/W	16° / 40° / 60° / 90°	0.87 ft <sup>2</sup>	1.34 ft <sup>2</sup>	29.5 lbs / 13.4 kg	
	320LED	320W	49149 lm	153lm/W		0.87 ft <sup>2</sup>	1.34 ft <sup>2</sup>	30.4 lbs / 13.8 kg	
	410LED	410W	60338 lm	147lm/W		0.87 ft <sup>2</sup>	1.34 ft <sup>2</sup>	32 lbs / 14.6 kg	
	480LED	480W	68330 lm	142lm/W		0.87 ft <sup>2</sup>	1.34 ft <sup>2</sup>	32 lbs / 14.6 kg	
	535LED	510W	69360 lm	136lm/W		0.87 ft <sup>2</sup>	1.34 ft <sup>2</sup>	32.6 lbs / 14.8 kg	
	550LED	550W	82616 lm	150lm/W	16° / 40° / 60°	0.97 ft <sup>2</sup>	1.52 ft <sup>2</sup>	42 lbs / 19.1 kg	
	600LED	600W	89573 lm	149lm/W		0.97 ft <sup>2</sup>	1.52 ft <sup>2</sup>	42.3 lbs / 19.2 kg	
	735LED	735W	104357 lm	142lm/W		0.97 ft <sup>2</sup>	1.52 ft <sup>2</sup>	44.3lbs / 20.1 kg	
	790LED	760W	104120 lm	137lm/W	22° / 40° / 60°	0.97 ft <sup>2</sup>	1.52 ft <sup>2</sup>	44.5 lbs / 20.2 kg	
	937LED	937W	139143 lm	148lm/W		1.24 ft <sup>2</sup>	1.90 ft <sup>2</sup>	62.8 lbs / 28.5 kg	
	1080LED	1080W	155666 lm	144lm/W		1.24 ft <sup>2</sup>	1.90 ft <sup>2</sup>	69.4 lbs / 31.5 kg	
	1200LED	1150W	163300 lm	138lm/W		1.24 ft <sup>2</sup>	1.90 ft <sup>2</sup>	70.5 lbs / 32 kg	
		1200LED-RBOX	1150W	154100 lm	134lm/W	22°	0.84 ft <sup>2</sup>	1.21 ft <sup>2</sup>	83.3 lbs / 37.8 kg
		1420LED	1420W	183180 lm	129lm/W		1.42 ft <sup>2</sup>		84.87 lbs / 38.5 kg

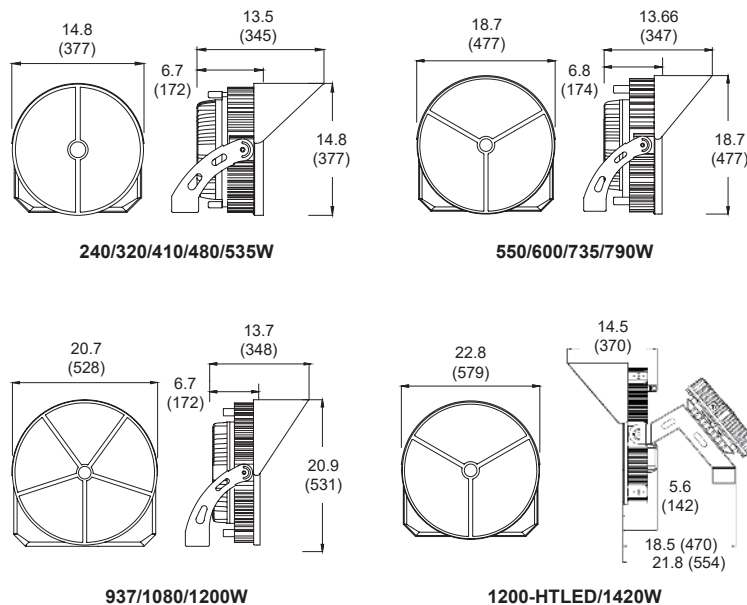
# STL-2G-S

AUDACY CONTROLLER (TABLE 1)

Item	Description
Radio Frequency Range	902–928 MHz, Dual Channel, Internal Antenna
Wireless Protocol	Proprietary based on IEEE 802.15.4
Encryption	Proprietary based on AES encryption
Regulatory Approvals	FCC Part 15 and Industry Canada FCC ID: 2AAMXLCE20A1000 IC: 11250A-LCE20A1000 UL 916 (Energy Management Equipment) CSA-C22.2 No. 205-12, Signal Equipment
Transmit Power	18 dBm short duration, utilizing direct sequence spread spectrum
Transmit Range	300 ft. (90 m) indoors to an Audacy Gateway or Luminaire Controller in a typical commercial building; extended range when repeater mode enabled
Dimming Protocol	0-10V (linear dimming profile, meets IEC60929 Annex E) Maximum Sourcing = 20 mA, Sinking = 100 mA
Input Voltage	120V/277 VAC
Rated Current	20A - Incandescent load, 16 Amps LED Driver or Electronic Ballast load
Rated Load Wattage	2400W@120V; 5540W@277VAC
Operating Temperature	-40°F to 158°F (-40°C to 70°C)
Installation Environment	Indoor/outdoor use (IP65 enclosure rated for use in outdoor applications)
Mounting	Directly to junction box or fixture via 1/2" knockout
Dimming Wire Placement	Within nipple for internal connection (linear dimming profile)
Color	Black
Dimensions	4 in. (10.2 cm) x 2 in. (5.1 cm) x 10 in. (25.4 cm)
Weight	4.6 oz (130.4g)
Warranty	5 year

**DIMENSIONS**

\* Visor is optional.



# STL-2G-S

ORDERING INFORMATION

EXAMPLE: STL-2G-600LED-50K-UNV-BR-O40

MODEL	LED		COLOR TEMP.		CRI		VOLTAGE		FINISH		OPTIC		DIMMING	
STL-2G	240LED	240W LED	-40K -50K -57K	4000K	(Blank) C9	70+ CRI 90+ CRI <sup>4</sup>	UNV HV	120-277V 347-480V	BR BK	Bronze (Std.) Black	O16	16°	(Blank)	0-10V Dimming
	320LED	320W LED		O40							40°			
	410LED	410W LED		O60							60°			
	480LED	480W LED		O90							90°			
	535LED	510W LED												
	550LED	550W LED		O16							16°			
	600LED	600W LED		O40							40°			
735LED	735W LED	O60	60°											
790LED	760W LED													
937LED	937W LED													
1080LED	1080W LED	O22	22°											
1200LED	1150W LED	O40	40°											
1420LED	1420W LED <sup>2</sup>	O60	60°											
		O22	22°											

DIM WIRE		MOUNTING		OPTIONS	
(Blank)	Enclosed	(Blank)	Yoke Mount for high mast mount	ZIG	Zigbee 0-10V controller
EXP	Exposed with waterproof connector, 4ft	STR	Yoke Mount for wall / Surface mount	TLPC3	3-Pin Receptacle and Twist Lock Photocell Installed 120V-277V
		HK	Hook mount	SPD	40kV surge protector
		SF	Slip Fitter <sup>3</sup>	VS	Visor
				LR	Laser
				O7W	Optional 7 Years Limited Warranty(for HV voltage) <sup>5</sup>
				RBOX	Remote Driver Box <sup>1</sup>
				MG	Marine Grade Finish <sup>6</sup>
				ID50	High Temperature Integrated Driver <sup>7</sup>
				ARRA	Assembled in USA for Buy American act

NOTES:

- Suitable for 122°F (50°C) ambient temperature for 1200LED model only.
- Built with a remote driver box.
- Only available on 240~535LED.
- Lumen per watt is around 25% less than standard CRI 70+.
- This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation.
- Provided with stainless steel mounting bracket.
- Suitable for 122°F (50°C) ambient temperature for 550/600/735/790LED models only.

Ventilation Ring

	Internal Driver
TYPE A	240W/320W/410W/480W/ 550W/600W/735W/937W
TYPE B	535W/790W/1080W/1200W

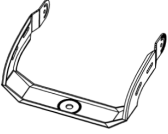
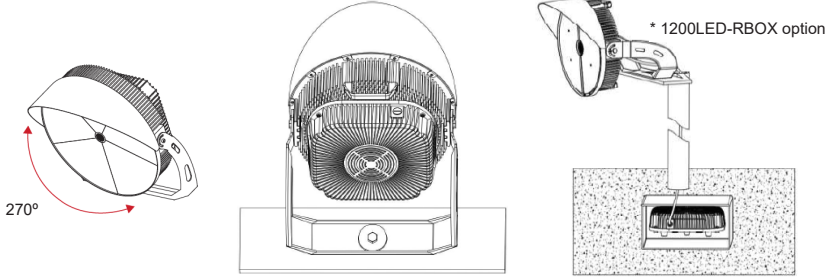

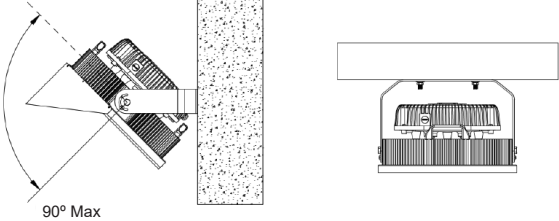

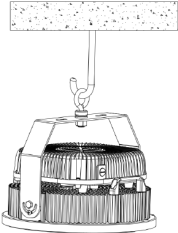
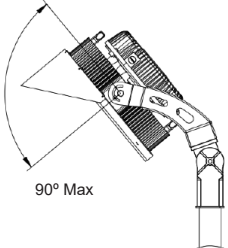
TYPE A

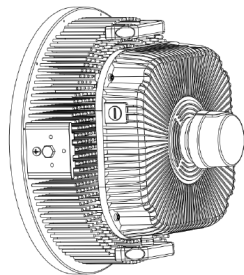


TYPE B



# STL-2G-S

Mounting Options	Type	Image	Ordering Code
Horizontal Mount (High Mast mount)			(Blank)
Wall / Ceiling Mount			STR
Hook Mount	 <p data-bbox="363 1081 441 1102">* Provided</p>		HK
Slip Fitter		 <p data-bbox="852 1270 1172 1323">* For 2-3/8" pole (pole is provided by others). * Only available on 240~535LED.</p>	SF



Photocell

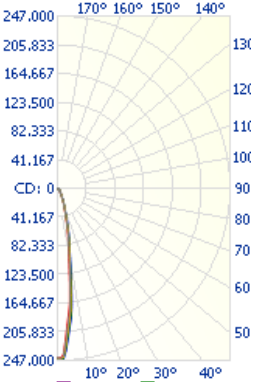


Laser

# STL-2G-S

16° (320W)

Polar Candela Distribution



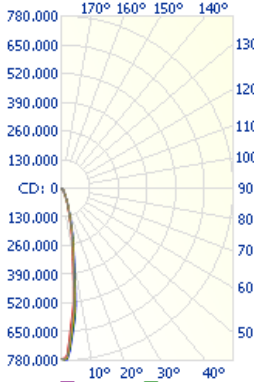
Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	843 fc	5.2 ft	5.2 ft
34.0ft	211 fc	10.4 ft	10.4 ft
51.0ft	93.6 fc	15.5 ft	15.6 ft
68.0ft	52.7 fc	20.7 ft	20.7 ft
85.0ft	33.7 fc	25.9 ft	25.9 ft
102.0ft	23.4 fc	31.1 ft	31.1 ft

■ Vert. Spread: 17.3°  
■ Horiz. Spread: 17.3°

22° (1080W)

Polar Candela Distribution



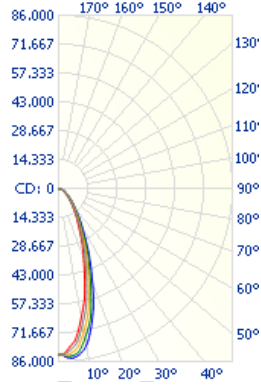
Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	2,669 fc	5.2 ft	5.2 ft
34.0ft	667 fc	10.4 ft	10.4 ft
51.0ft	297 fc	15.5 ft	15.6 ft
68.0ft	167 fc	20.7 ft	20.7 ft
85.0ft	107 fc	25.9 ft	25.9 ft
102.0ft	74.1 fc	31.1 ft	31.1 ft

■ Vert. Spread: 17.3°  
■ Horiz. Spread: 17.3°

40° (410W)

Polar Candela Distribution



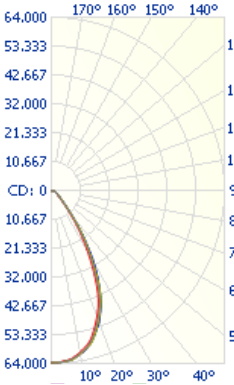
Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	285 fc	11.8 ft	11.9 ft
34.0ft	71.3 fc	23.7 ft	23.7 ft
51.0ft	31.7 fc	35.5 ft	35.6 ft
68.0ft	17.8 fc	47.4 ft	47.4 ft
85.0ft	11.4 fc	59.2 ft	59.3 ft
102.0ft	7.93 fc	71.1 ft	71.1 ft

■ Vert. Spread: 38.4°  
■ Horiz. Spread: 38.4°

60° (410W)

Polar Candela Distribution



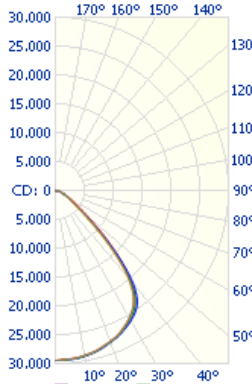
Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	220 fc	18.4 ft	18.3 ft
34.0ft	55.1 fc	36.8 ft	36.5 ft
51.0ft	24.5 fc	55.2 ft	54.8 ft
68.0ft	13.8 fc	73.7 ft	73.1 ft
85.0ft	8.81 fc	92.1 ft	91.4 ft
102.0ft	6.12 fc	110.5 ft	109.6 ft

■ Vert. Spread: 56.9°  
■ Horiz. Spread: 56.5°

90° (410W)

Polar Candela Distribution



Illuminance at a Distance

	Center Beam fc	Beam Width	
17.0ft	102 fc	35.7 ft	35.1 ft
34.0ft	25.5 fc	71.3 ft	70.2 ft
51.0ft	11.3 fc	107.0 ft	105.2 ft
68.0ft	6.37 fc	142.7 ft	140.3 ft
85.0ft	4.08 fc	178.4 ft	175.4 ft
102.0ft	2.83 fc	214.0 ft	210.5 ft

■ Vert. Spread: 92.7°  
■ Horiz. Spread: 91.8°