



JAG1S-LED

Selectable Area Light



The JAG1S-LED is an exceptionally versatile lighting fixture, featuring field-adjustable beam distribution, high efficiency, and advanced controls to optimize lighting layouts for any area light application. Additionally, the standard fixture includes selectable features such as colour selection, wattage selection, and a wide voltage range of 120-347V, making it one of the most feature-rich area lights available on the market.

(Shown with Direct Mount for Round/Square Poles)

IDEAL APPLICATIONS

- Commercial Plazas
- Dealerships
- Schools and Campuses
- Parking Lots
- Transit Stations
- Pathways
- Perimeter Lighting

SPECIFICATIONS

	LED100A60	LED150A100	CERTIFICATIONS										
PERFORMANCE													
Light Output	16700/13400/10000 lm	25000/20000/16700 lm	cULus Certified as per UL 1598 & CSA C22.2, IP66, Wet Location, DLC Premium										
Efficacy	167 lm/W		Smart Bluetooth Controls (using CONTROLLED mobile app), DHFS Motion Sensor, PBLS Control, Twist Lock Photocell, 3 PIN or 7 PIN Receptacle with Shorting Cap ANSI C136 compliant, 20 kV Surge Protection (120-277 V)										
CCT	CCT Selectable - 3000K/4000K/5000K												
Beam Distribution	Variable Distribution - VD1 (Type III/Type IV/Type V); VD2 (Type II/Type III/Type IV) (Optional)	Adjust beam distribution effortlessly using a switch—no need to swap or reorient optics.	Slip Fitter, Direct Mount for Round/Square Poles, Trunnion Mount, Yoke Mount, House Side Cutoff, Side Cutoff, DHFS Motion Sensor Remote Control, Bluetooth Controlled, PBLS Remote Control, Bluetooth 3-Key AC Line Voltage Wall Switch, Bluetooth 5-Key Battery Powered Wireless Wall Switch										
LED Lifetime (L85)	100,000 Hours												
CRI	84		Die-cast Aluminum										
ELECTRICAL													
Wattage	100/80/60 W	150/120/100 W											
Voltage	120-347 V		Polycarbonate Lens/Optics with integral field-adjustable light distribution allows beam distribution changes without replacing or re-orienting the lens/optics.										
Surge Protection	6 kV Internal & 10 kV External per UL1449												
Power Factor	0.99		Weather and Corrosion Resistant Polyester Powder Coat Finish										
THD	4.49%	4.36%											
Dimming	0-10 V (0-100%)		Bronze, Custom Colours										
Replaces Up to	250W MH	400W MH											
Cable Specs	Input Power - 1 m Cabtire Cable (3x18 AWG) Dimming - 1 m Cabtire Cable (2x18 AWG)		4.8kg (10.58lbs)										
AMBIENT OPERATING TEMPERATURE													
Fixture	-40°C to 50°C (-40°F to +122°F)		MAX AMPERAGE DRAW (A)										
DEFAULT SETTINGS													
CCT	4000K		120V	208V	240V	277V	347V						
Wattage	100W	150W	LED100A60 (100W)	0.875	0.505	0.438	0.379	0.303					
Beam Distribution	VD1 - Type III VD2 - Type II		LED150A100 (150W)	1.313	0.757	0.656	0.569	0.454					
LUMEN MAINTENANCE													
				L90	L80	L70							
			LED100A60 & LED150A100	68,000 Hours	> 100,000 Hours	> 100,000 Hours							

Electrical and Light Performance data is based on LM79 test report at 4000K, Type IV and 120V. Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.

CONTROLLED



Note: IP66 rating applies to standard configuration fixture or fixture with photocell

ORDERING GUIDE

JAG1S			VK			DIM		
Fixture	Wattage	Voltage	Colour Temp.	Beam Distribution	Finish	Dimming	Controls	Surge Protection
JAG1S	LED100A60	H - 120-347V ^a	VK - CCT Selectable (3000K/ 4000K/ 5000K)	VD1 - Variable Distribution ^a (Type III/Type IV/ Type V)	BRZ - Bronze ^a	DIM - 0-10V Dimming	Blank - No Controls	SP10 - 10kV Surge Protection ^a
	LED150A100	B - 120-277V ^b		VD2 - Variable Distribution (Type II/Type III/ Type IV)	CST - Custom Finish		PBLS - Photocell Beam Lumen Sensor ^c	SP20 - 20kV Surge Protection ^b
							DHFS - Dimming High Frequency Motion Sensor ^d	
							PC - Photocontrol	
							BC - Bluetooth ControlLED	
							3PIN - 3PIN Receptacle	
							7PIN - 7PIN Receptacle	

^a - Standard Configuration

^b - B voltage (120-277V) is only applicable to SP20

^c - One RC107 remote control is required for PBLS

^d - One RC100 remote control is required for DHFS

STOCK CODES

084100	JAG1S-LED100A60-H-VK-VD1-BRZ-DIM-SP10
084150	JAG1S-LED150A100-H-VK-VD1-BRZ-DIM-SP10
084191	JAG1S-LED100A60-H-VK-VD1-BRZ-DIM-PBLS-SP10
084197	JAG1S-LED150A100-H-VK-VD1-BRZ-DIM-PBLS-SP10

NOTE:

- “VD1” offers selectable beam distribution options (Type III, Type IV, Type V).
- For Type II beam distribution, please order “VD2” which offers selectable beam distribution options (Type II, Type III, Type IV).
- “PBLS” allows **remote** adjustment of the photocell, beam distribution, and lumen output.
- All fixture configuration with controls options are rated IP65 or higher

ACCESSORIES SOLD SEPARATELY

002421	JAG1 HOUSE CUTOFF SHIELD BRZ		020052	YOKE MOUNT BRZ F/JAG1	
002422	JAG1 SIDE CUTOFF SHIELD BRZ		020009	SLIP FITTER BRZ F/HELIX1/2 & JAG1/2	
087016	RC-100 MOTION SENSOR REMOTE CONTROL		020010	DIRECT MOUNT F/RND & SQR POLE BRZ F/HELIX1/2 & JAG1/2	
087034	RC-107 PHOTOCONTROL REMOTE CONTROL		020011	DIRECT TRUNNION MOUNT BRZ F/HELIX1/2 & JAG1/2	
084215	BLUETOOTH 3-KEY AC LINE VOLTAGE WALL SWITCH 120-277VAC, 3-KEYS(ON/OFF, DIM+, DIM-)		084633	BLUETOOTH 5-KEY BATTERY POWERED WIRELESS WALL SWITCH & PLATE ¹	

¹ Wireless Bluetooth module can also be used as portable remote control.

ADDITIONAL DETAILS

	EPA (ft)		
	Tilt 0°	Tilt 45°	Tilt 90°
JAG1S	0.59	1.55	2.18
JAG1S (with HCO)	0.82	1.55	2.18
JAG1S (with SCO)	1.21	1.62	2.18

*EPA calculation includes both fixture and slipfitter mount

PHOTOCELL/BEAM DISTRIBUTION/LUMEN SENSOR (PBLS)



PBLS Controller allows the Installer to adjust beam, brightness, and photocontrol settings using a remote control after installation.

SPECIFICATIONS

INPUT POWER	LED INPUT : MAX . 250VDC 3A; SENSOR INPUT: 10-14VDC, >30MA
SINKING CURRENT	MAX. 25MA
CONTROL OUTPUT	0-10V OUTPUT SIGNALS
POWER CONSUMPTION	MAX.0.5W
OPERATE LEVEL	10-20LUX ON, 30-80LUX OFF
HUMIDITY	99%RH
OPERATING TEMPERATURE	-40°F to +122°F (-40°C to +50°C)

FUNCTIONS

PHOTOCELL	BEAM	LUMEN
When the ambient light is above set lux values, fixture will not switch on. When the ambient light is below set lux values, fixture will switch on.	Adjust beam distribution between types III/IV/V (VD1) or II/III/IV (VD2)	Light levels can be dimmed up or down by increments of 10% Light levels can be lowered to 50% after specified time period for improved energy savings.

RC107 REMOTE SPECIFICATIONS (FOR PBLS CONTROLLER)



DEFAULT FACTORY SETTING

TASK LIGHT LEVEL	100%
HOLD TIME	DISABLE
PHOTOCELL	LOW
CCT (BEAM DISTRIBUTION)	Type IV for VD1, Type III for VD2

FEATURES

	ON: Turn on the fixture, the brightness is according to the task level you set. OFF: Turn off the fixture, the fixture is permanently off. RESET: Task Light Level:100%; Hold Time: Disable; Photocell: Low; CCT/Beam: NW (Type IV for VD1), Type III (for VD2) REPEAT: Send the same setting to different fixtures installed.
	DIM+: With each push of the button, brightness increases by 10%. DIM-: With each push of the button, brightness decreases by 10%;
	Select the task brightness of the fixture as needed.
	HOLD TIME: The "hold time" starts to count right after the fixture turns on. When the "hold time" is up, the fixture adjusts to 50% brightness until the light control turns the light fixture off. DISABLE: When you choose disabled, the fixture maintains the task light level
	LOW: When the ambient lux is less than 30lux, the fixture turn on at the task level you set, when the ambient lux is more than 50lux, the fixture turns off. MIDDLE: When the ambient lux is less than 80lux, the fixture turn on at the task level you set, when the ambient lux is more than 100lux, the fixture turns off. HIGH: When the ambient lux is less than 150lux, the fixture turn on at the task level you set, when the ambient lux is more than 180lux, the fixture turns off; DISABLE: Photoelectric switch disabled
	Adjust Beam Distribution Setting: For VD1: WW - Type III, NW - Type IV, CW - Type V, For VD2: WW - Type II, NW - Type III, CW - Type IV

Note: Custom settings can be done based on requirements in the Factory.

DIMMING HIGH FREQUENCY MOTION SENSOR (DHFS)

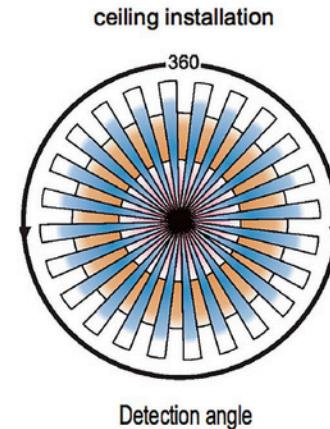
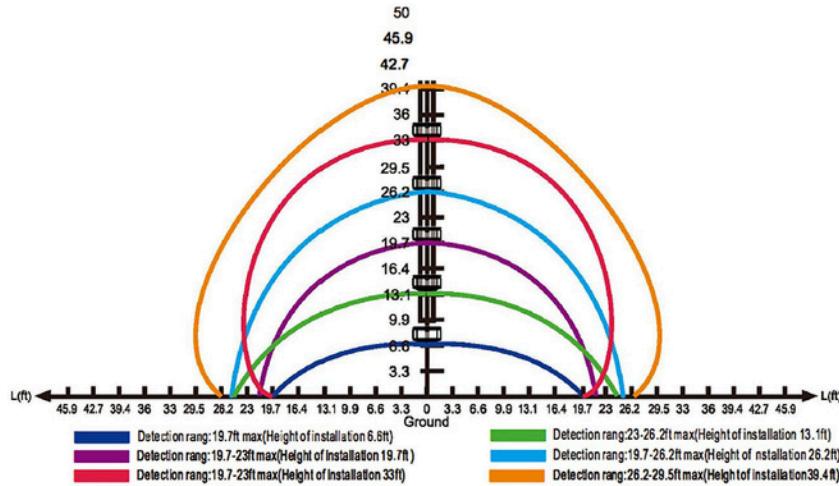


DHFS Microwave motion sensor offers a range of control features based on motion detection allowing the Installer to adjust the brightness of the fixture, hold time and daylight settings using a remote control after installation.

SPECIFICATIONS

POWER SUPPLY	12V-24V DC
HIGH FREQUENCY SYSTEM	5.8GHZ +/-75MHZ
DIM CONTROL OUTPUT	0-10V, MAX. 25MA SINKING CURRENT
DETECTION RADIUS/ANGLE	MAX 26FT (8M)/360°
MOUNTING HEIGHT	MAX 40FT
REMOTE RANGE	50FT. (15M) INDOOR, NO BACKLIGHT
HUMIDITY	MAX. 95% RH
TEMPERATURE	-40°F - 158°F (-40°C- 70°C)

SENSOR COVERAGE



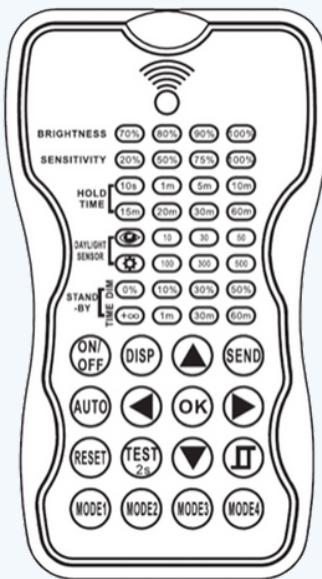
Refer to page 6 for more details on the DHFS Remote Control Usability

RC100 REMOTE SPECIFICATIONS (FOR DHFS CONTROLLER)

DEFAULT FACTORY SETTING

BRIGHTNESS	100%
SENSITIVITY	100%
HOLD TIME	5 MINS
DAYLIGHT SENSOR	☀
STAND-BY DIM	30%
STAND-BY TIME	60 MINS

FEATURES



BRIGHTNESS:

Sets the highest light fixture brightness when motion is detected.

SENSITIVITY:

Sets the sensitivity to which the sensor will detect motion.

HOLD TIME:

The time the light fixture will remain at the brightness setting after it detects motion.

DAYLIGHT SENSOR:

The lux setting that the light fixture will turn on/off. If the ambient lux is more than the defined lux setting, the fixture & sensor function will turn off and remain off until the ambient lux is below the setting. To disable the lux sensor, select the SUN icon. To set the lux to match current room conditions, select the EYE icon.

STAND-BY DIM:

The Dim level that the light fixture will dim down after the Hold Time has expired. To disable dimming and only have ON/OFF, select the 0% icon.

STAND-BY TIME:

The time the light fixture will remain in the dim down state before it shuts off. To disable the light from shutting off, select the INFINITY icon.

RC100 REMOTE CONTROL SPECIFICATION

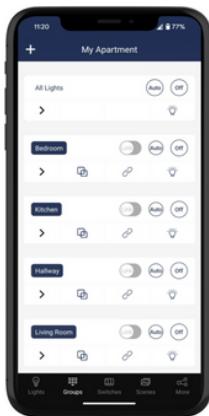
POWER SUPPLY	2 x AAA 1.5V Batteries
COMMUNICATION PROTOCOL	940 nm IR Tx & Rx
COMMUNICATION RANGE	Up to 15m (50 ft)
OPERATING TEMP	0 °C to 50 °C (32°F to 122°F)
DIMENSIONS	123x70x20.3mm (4.84"x2.76"x0.8")

CONTROLLED

RAB[®]
DESIGN

ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.

Maximum Bluetooth transmittance of 860ft between fixtures (unobstructed) and 200ft between user and any one fixture.



Organized Fields:
Create Zones and Groups



Dimming Lights:
Set dim level for groups or individual lights.



Scenes:
Create custom scenes for different scenarios.



Schedules:
Create custom schedules for recurring events.



Share Access:
Share access using QR codes.

BLUETOOTH CONTROL

FEATURES

- Bluetooth mesh network
- DLC - Networked Lighting Control (NLC) & Luminaire Level Lighting Control (LLLC)
- Group and Individual fixture dimming
- Scenes & Schedules

SPECIFICATIONS

Input Voltage	12 VDC
Input Current	Min 150mA
Output Current	10mA Max.
Dimming	Class 2, 0-10 VDC
Bluetooth Transmit	860ft Max.
Radio Frequency	2.4GHz ±75MHz
Bluetooth Version	5.0

Get the App!



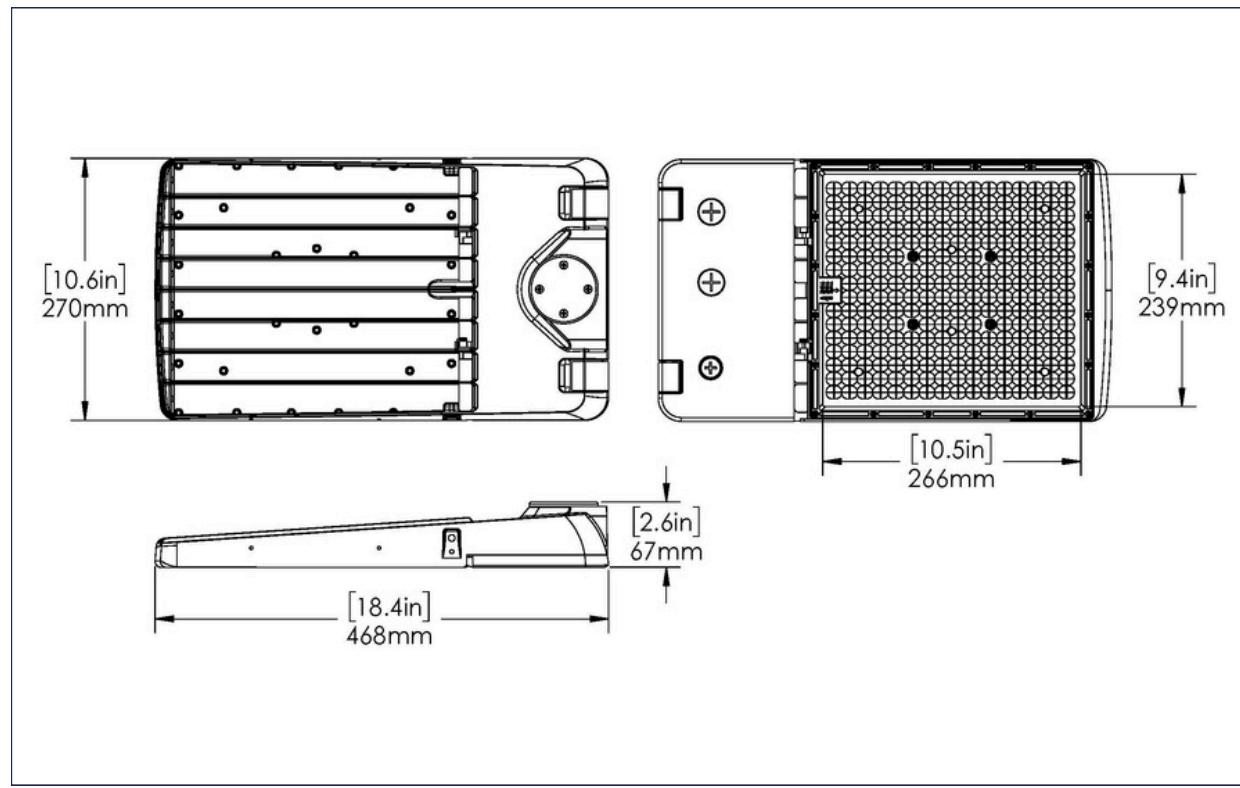
RAB[®]
DESIGN

Engineered by skilled hands,
for skilled hands.

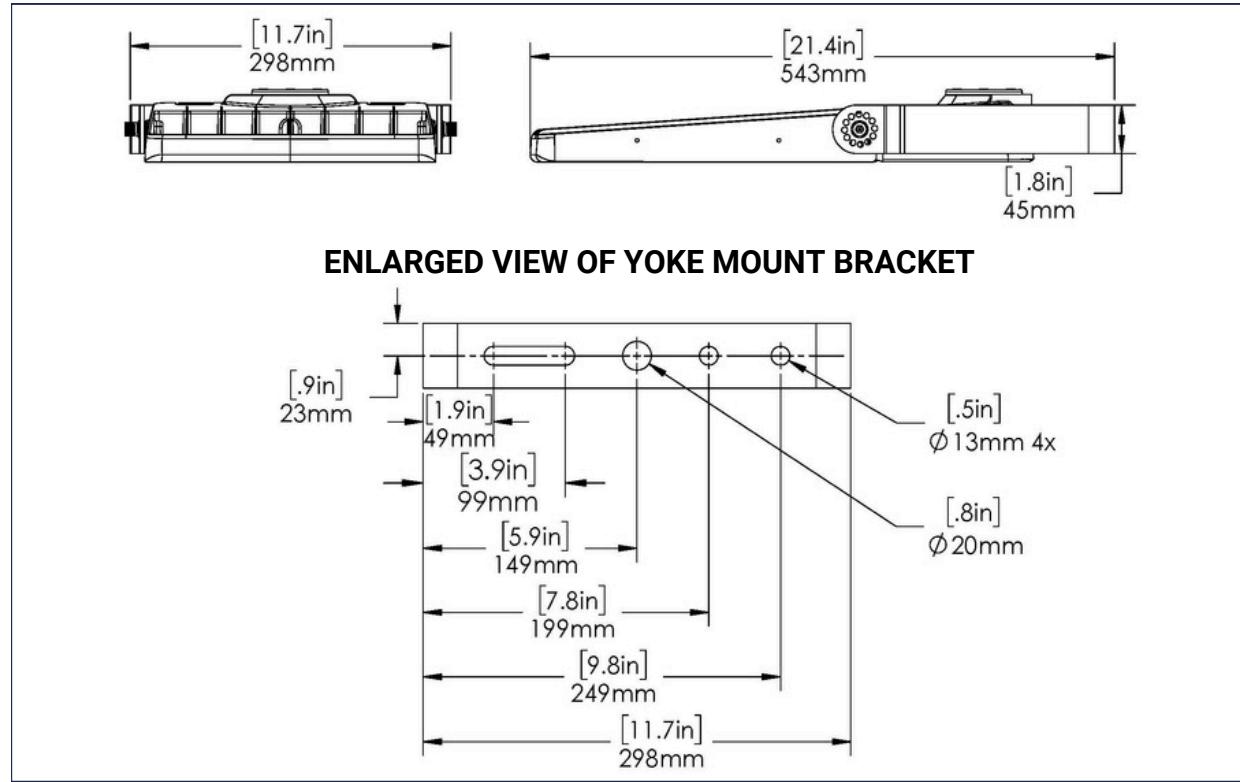
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For more information, visit rabdesign.ca.

DIMENSIONS

FIXTURE WITHOUT MOUNT

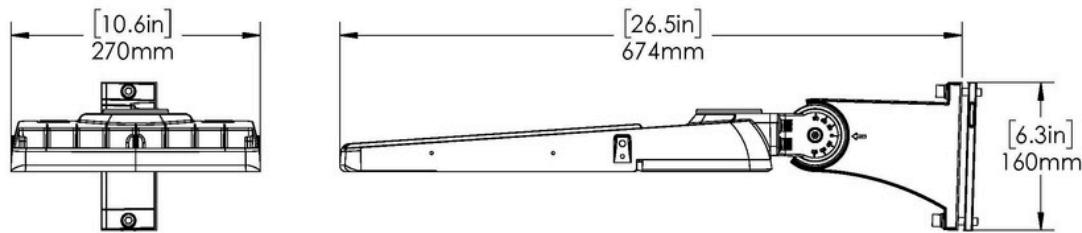


FIXTURE WITH YOKE MOUNT

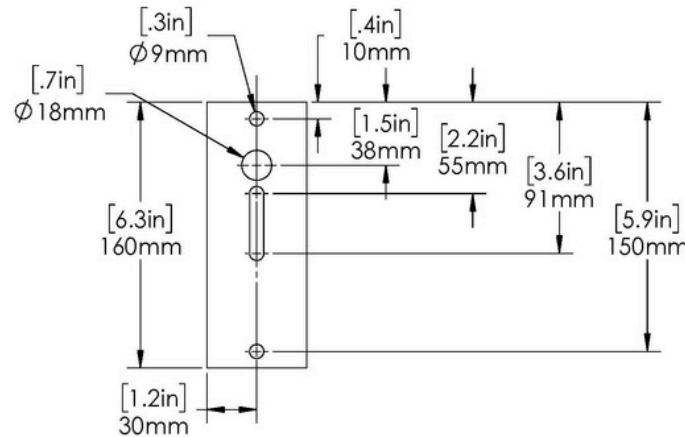


*Angle marking increment - 30°

Fixture with Direct Mount

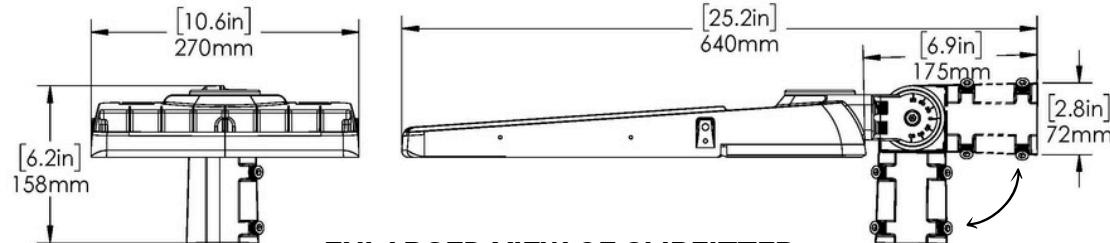


ENLARGED VIEW OF DIRECT MOUNT BRACKET

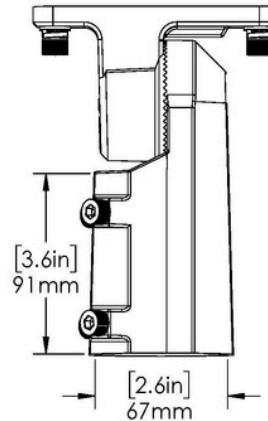


*Angle marking increment - 30°

Fixture with Slipfitter



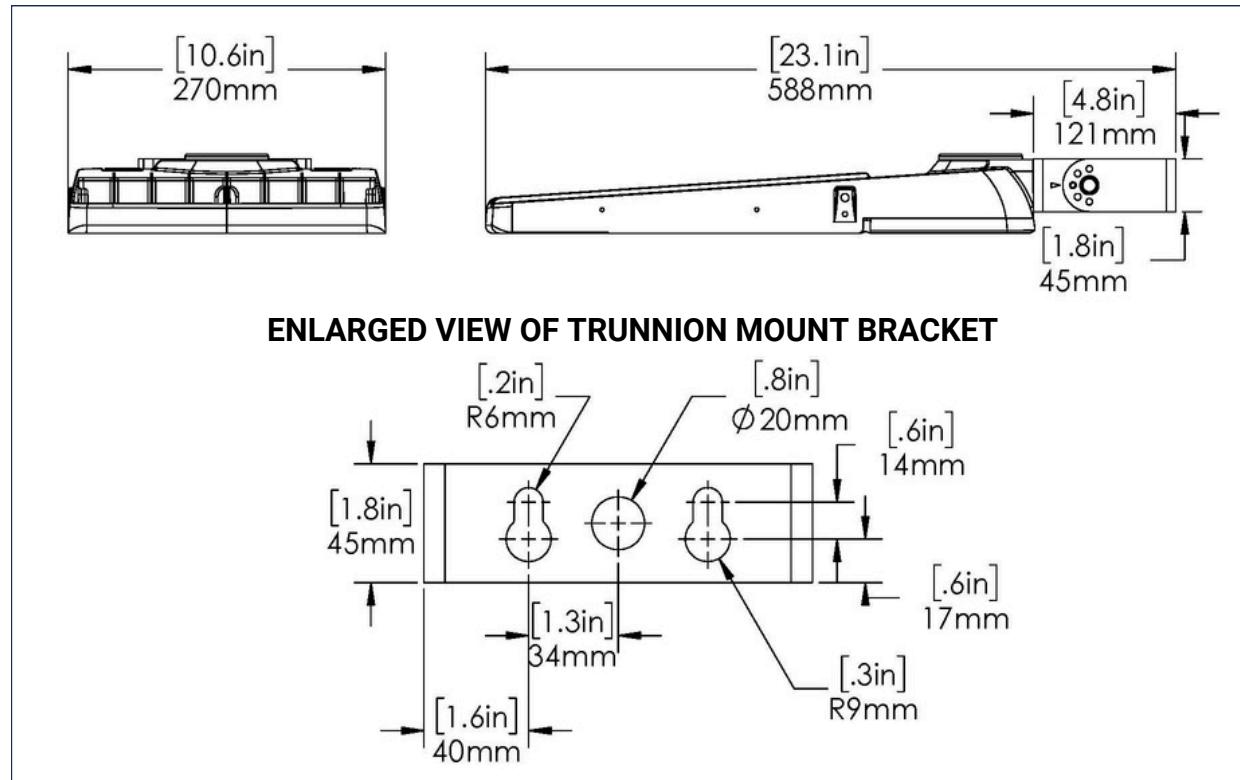
ENLARGED VIEW OF SLIPFITTER



For use with 2 3/8" Tenon

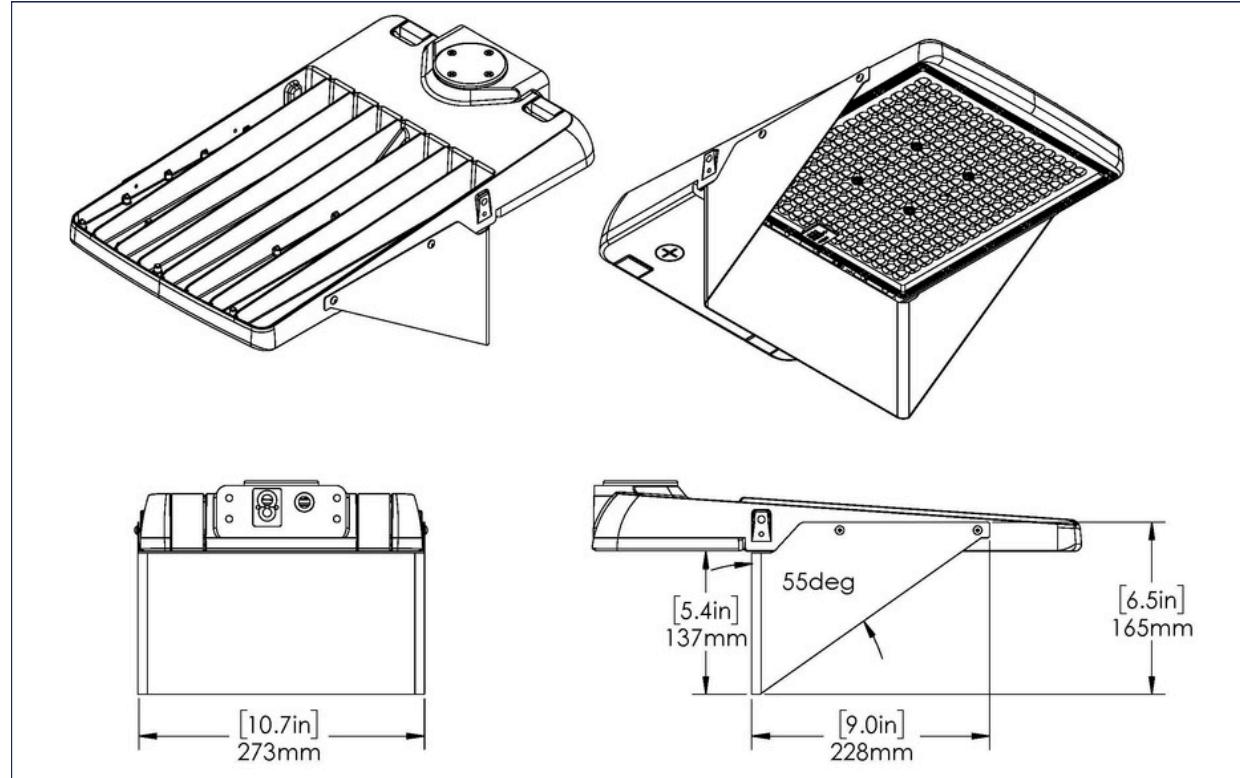
*Angle marking increment - 30°

FIXTURE WITH TRUNNION MOUNT

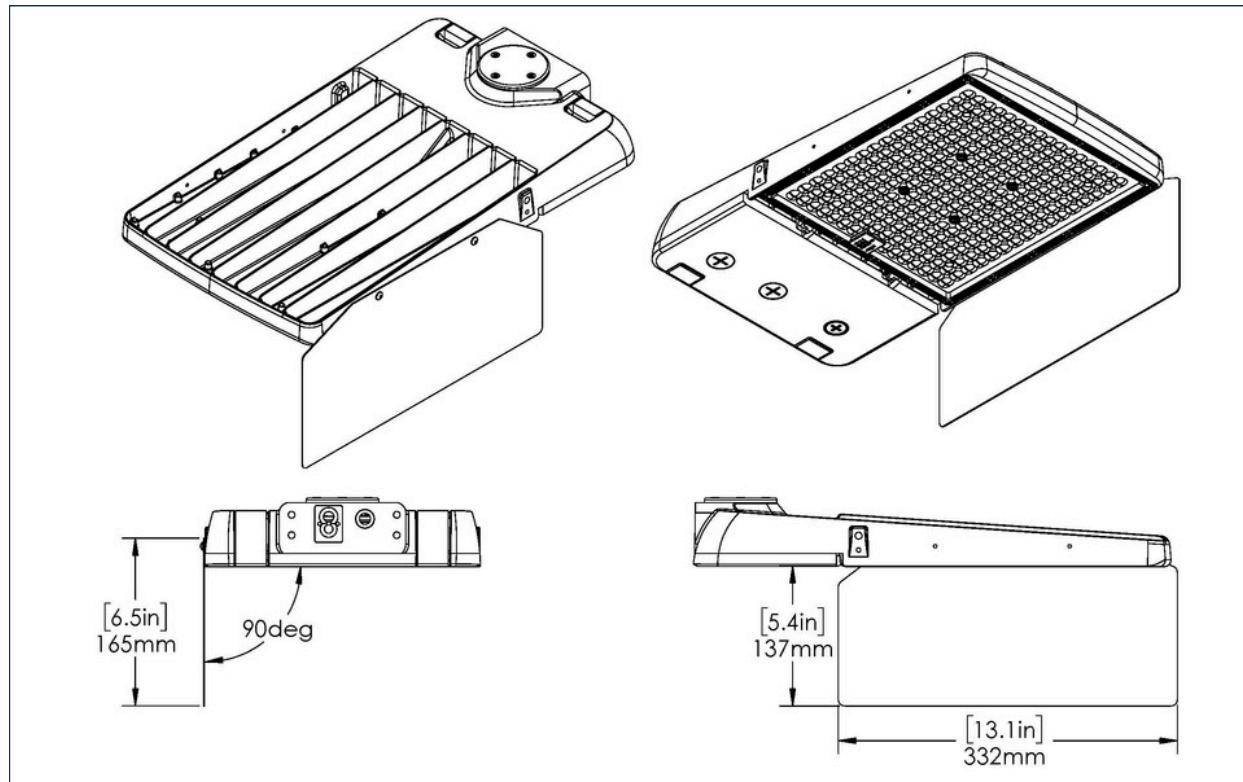


*Angle marking increment - 45°

FIXTURE WITH HOUSE SIDE CUTOFF (HCO)



Fixture with Side Cutoff (SCO)

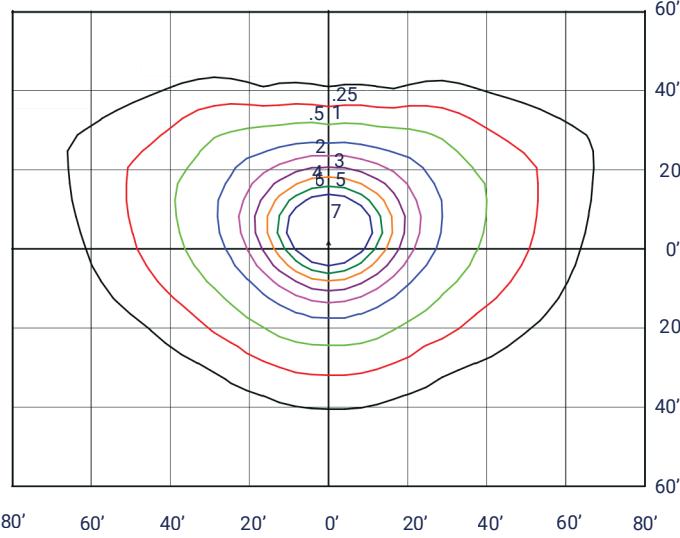


PHOTOMETRIC PLOTS

JAG1S-LED100A60-H-VK-VD1-BRZ-DIM-SP10
(100W, 4000K, TYPE III)
MOUNTED AT 20 FEET

LUMENS 15723.5

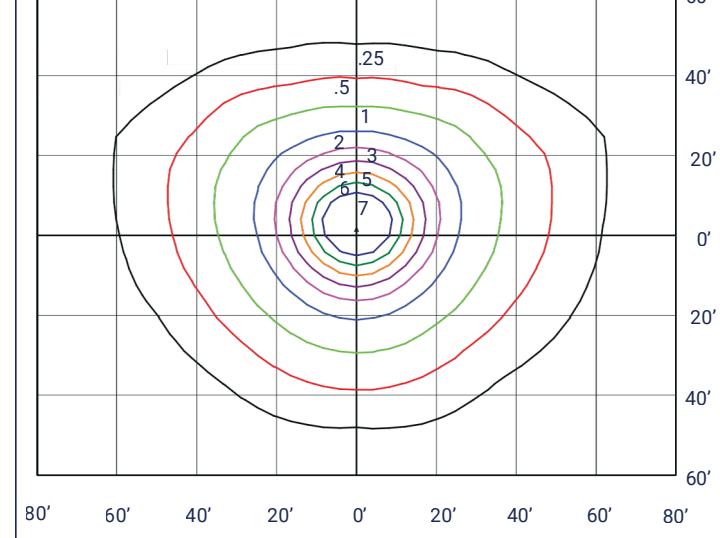
MAX CALCULATED VALUE 10.40fc



JAG1S-LED100A60-H-VK-VD1-BRZ-DIM-SP10
(100W, 4000K, TYPE IV)
MOUNTED AT 20 FEET

LUMENS 15872.6

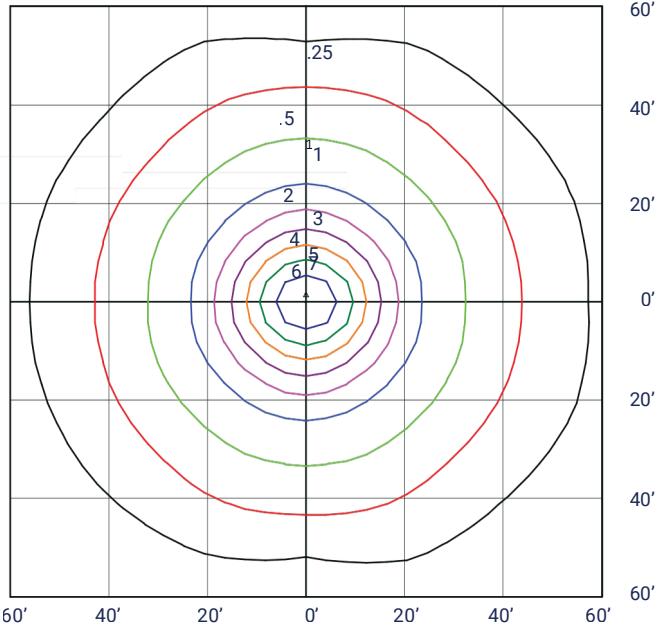
MAX CALCULATED VALUE 19.11fc



JAG1S-LED100A60-H-VK-VD1-BRZ-DIM-SP10
(100W, 4000K, TYPE V)
MOUNTED AT 20 FEET

LUMENS 15380.2

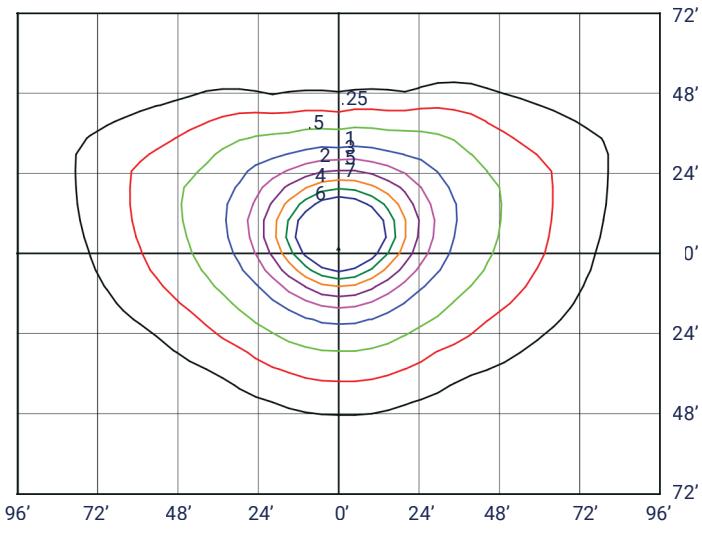
MAX CALCULATED VALUE 7.94fc



JAG1S-LED150A100-H-VK-VD1-BRZ-DIM-SP10
(150W, 4000K, TYPE III)
MOUNTED AT 24 FEET

LUMENS 22761.5

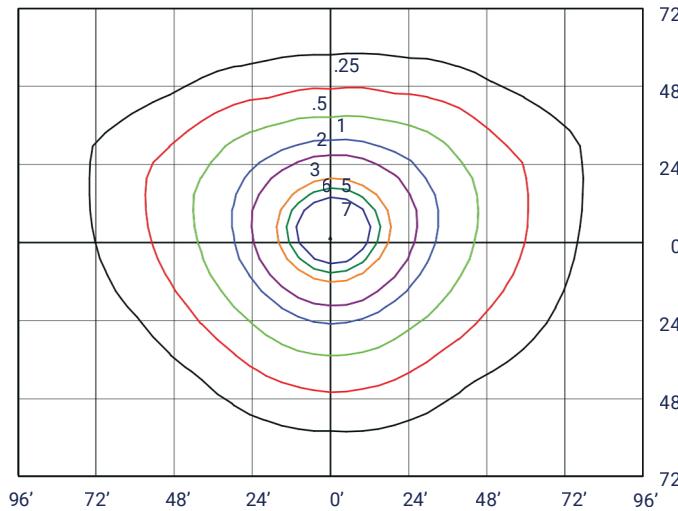
MAX CALCULATED VALUE 10.68fc



JAG1S-LED150A100-H-VK-VD1-BRZ-DIM-SP10
(150W, 4000K, TYPE IV)
MOUNTED AT 24 FEET

LUMENS 23493.8

MAX CALCULATED VALUE 9.50fc



JAG1S-LED150A100-H-VK-VD1-BRZ-DIM-SP10
(150W, 4000K, TYPE V)
MOUNTED AT 24 FEET

LUMENS 23022

MAX CALCULATED VALUE 8.30fc

