



JAG2S-LED

Selectable Area Light



The JAG2S-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

LED240A180		LED300A240
PERFORMANCE		
Light Output	38400/33600/28800 lm	48000/43200/38400 lm
Efficacy	160 lm/W	
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.	
LED Lifetime (L85)	100,000 Hours	
CRI	84	
ELECTRICAL		
Wattage	240/210/180 W	300/270/240 W
Voltage	120-347 V	
Surge Protection	6 kV Internal & 10 kV External per UL1449	
Power Factor	0.99	
THD	3.1%	2.82%
Dimming	0-10 V (0-100%)	
Replaces Up to	750W MH	1000W MH
Cable Specs	Input Power - 1m Cabtire Cable (3x18 AWG) Dimming - 1m Cabtire Cable (2x18 AWG)	
AMBIENT OPERATING TEMPERATURE		
Fixture	-40°C to 50°C (-40°F to +122°F)	
DEFAULT SETTINGS		
CCT	4000K	
Wattage	240 W	300 W
Beam Distribution	VD1 - Type III VD2 - Type II	

CERTIFICATIONS					
cULus Certified as per UL 1598 & CSA C22.2, IP66, Wet Location, DLC Premium					
FACTORY INSTALLED CONTROLS					
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)					
OPTIONS SOLD SEPERATELY					
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					
CONSTRUCTION					
Housing	Die-cast Aluminum				
Lens/Optics	Polycarbonate Lens/Optics with integral field-adjustable light distribution allows beam distribution changes without replacing or re-orienting the lens/optics.				
Paint	Weather and Corrosion Resistant Polyester Powder Coat Finish				
Housing Finish	Bronze, Custom Colours				
WEIGHT (FIXTURE ONLY)					
6.5kg (14.33lbs)					
MAX AMPERAGE DRAW (A)					
	120V	208V	240V	277V	347V
LED240A180 (240W)	2.100	1.212	1.050	0.910	0.726
LED300A240 (300W)	2.625	1.514	1.313	1.137	0.908
LUMEN MAINTENANCE					
	L90	L80		L70	
LED240A180 & LED300A240	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

UL

CERTIFIED

SAFETY US-CA

E361278

DLC

LISTED

PREMIUM

Beam Adjustable

120-347V

Lumen Adjustable

CCT 3K/4K/5K

IP66 RATED

APPROVED FOR WET LOCATION

5 YEAR WARRANTY

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

ORDERING GUIDE

JAG2S			VK			DIM		
Fixture	Wattage	Voltage	Colour Temp.	Beam Distribution	Finish	Dimming	Controls	Surge Protection
JAG2S	LED240A180	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 ^a	SP10 - 10kV Surge Protection ^a
	LED300A240	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 ControlledLED	
							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

084240	JAG2S-LED240A180-H-VK-VD1-BRZ-DIM-SP10
084300	JAG2S-LED300A240-H-VK-VD1-BRZ-DIM-SP10
084243	JAG2S-LED240A180-H-VK-VD1-BRZ-DIM-PBLS-SP10
084303	JAG2S-LED300A240-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

002423	JAG2 HOUSE CUTOFF SHIELD BRZ		020053	YOKE MOUNT BRZ F/JAG2	
002424	JAG2 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-)				

ADDITIONAL DETAILS

EPA (ft)			
	Tilt 0°	Tilt 45°	Tilt 90°
JAG2S	0.67	2.37	3.21
JAG2S (with HCO)	1.08	2.37	3.21
JAG2S (with SCO)	1.49	2.37	3.21

*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
		
<p>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.</p>	<p>Adjust beam distribution between types III/IV/V (VD1) or II/III/IV (VD2)</p>	<p>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.</p>

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

	<p>ON: Turn on the fixture, the brightness is according to the task level you set.</p> <p>OFF: Turn off the fixture, the fixture is permanently off.</p> <p>RESET: Task Light Level:100%; Hold Time: Disable; Photocell: Low; CCT/Beam: NW (Type IV for VD1), Type III (for VD2)</p> <p>REPEAT: Send the same setting to different fixtures installed.</p>
	<p>DIM+: With each push of the button, brightness increases by 10%.</p> <p>DIM-: With each push of the button, brightness decreases by 10%;</p>
	<p>Select the task brightness of the fixture as needed.</p>
	<p>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.</p> <p>DISABLE: When you choose disabled, the fixture maintains the task light level</p>
	<p>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.</p> <p>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.</p> <p>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;</p> <p>DISABLE: Photoelectric switch disabled</p>
	<p>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</p>

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

DIMMING HIGH FREQUENCY MOTION SENSOR (DHFS)

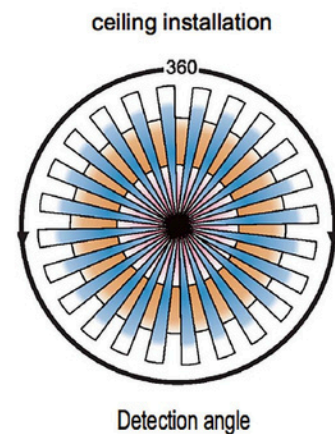
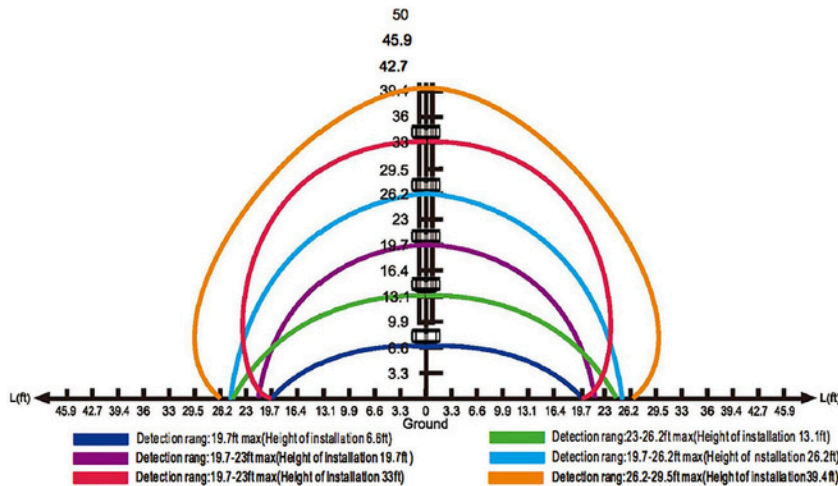


DHFS Microwave motion sensor offers a range of control features based on motion detection allowing the Installer to adjust the brightness of the fixture, hold time and daylight settings using a remote control after installation.

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

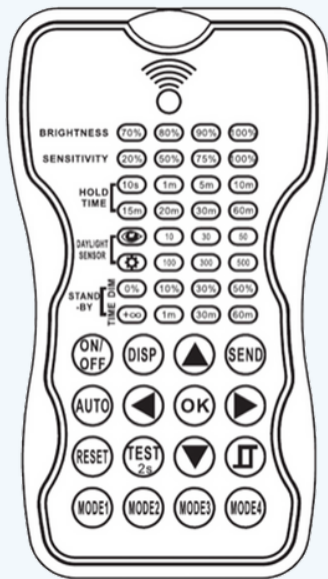
RC100 REMOTE SPECIFICATIONS

(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

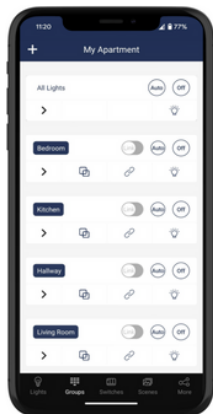
POWER SUPPLY	2 x AAA 1.5V Batteries
COMMUNICATION PROTOCOL	940 nm IR Tx & Rx
COMMUNICATION RANGE	Up to 15m (50 ft)
OPERATING TEMP	0 °C to 50°C (32°F to 122°F)
DIMENSIONS	123x70x20.3mm (4.84"x2.76"x0.8")

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

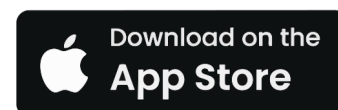
FEATURES

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

SPECIFICATIONS

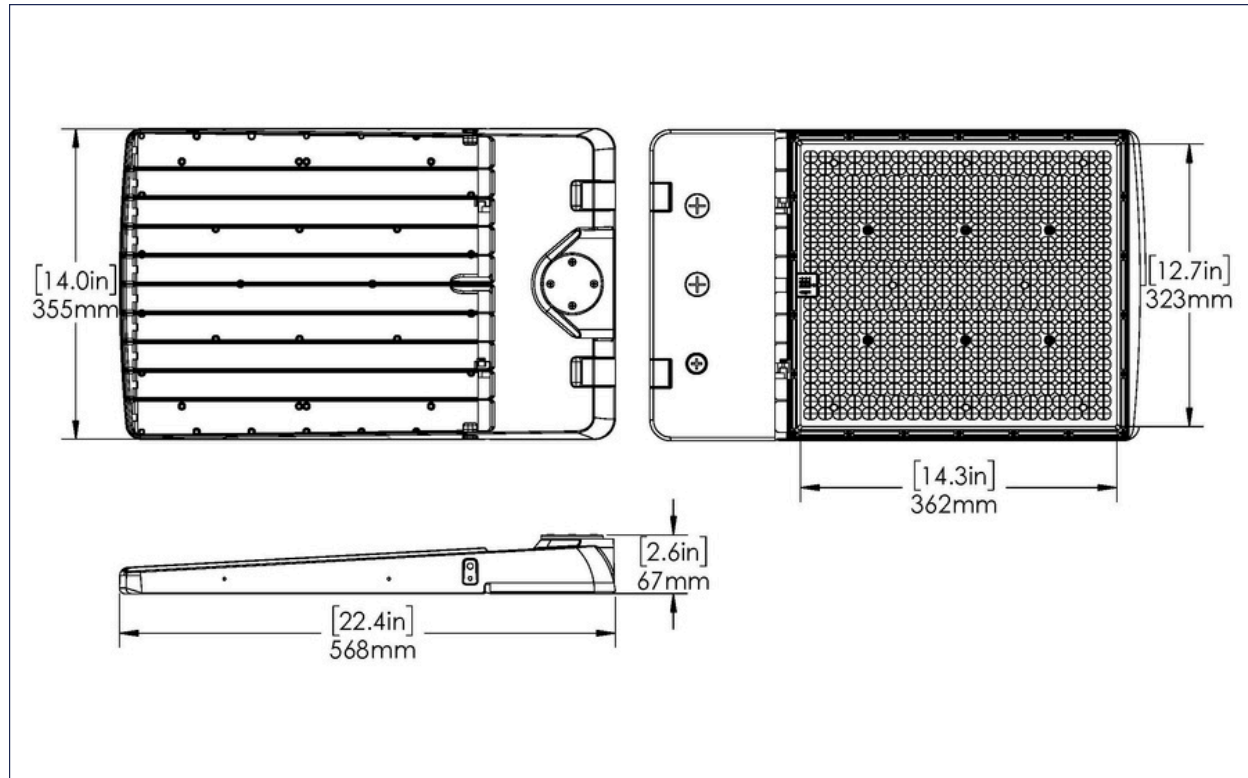
Input Voltage	12 VDC
Input Current	Min 150mA
Output Current	10mA Max.
Dimming	Class 2, 0-10 VDC
Bluetooth Transmit	860ft Max.
Radio Frequency	2.4GHz ±75MHz
Bluetooth Version	5.0

Get the App!

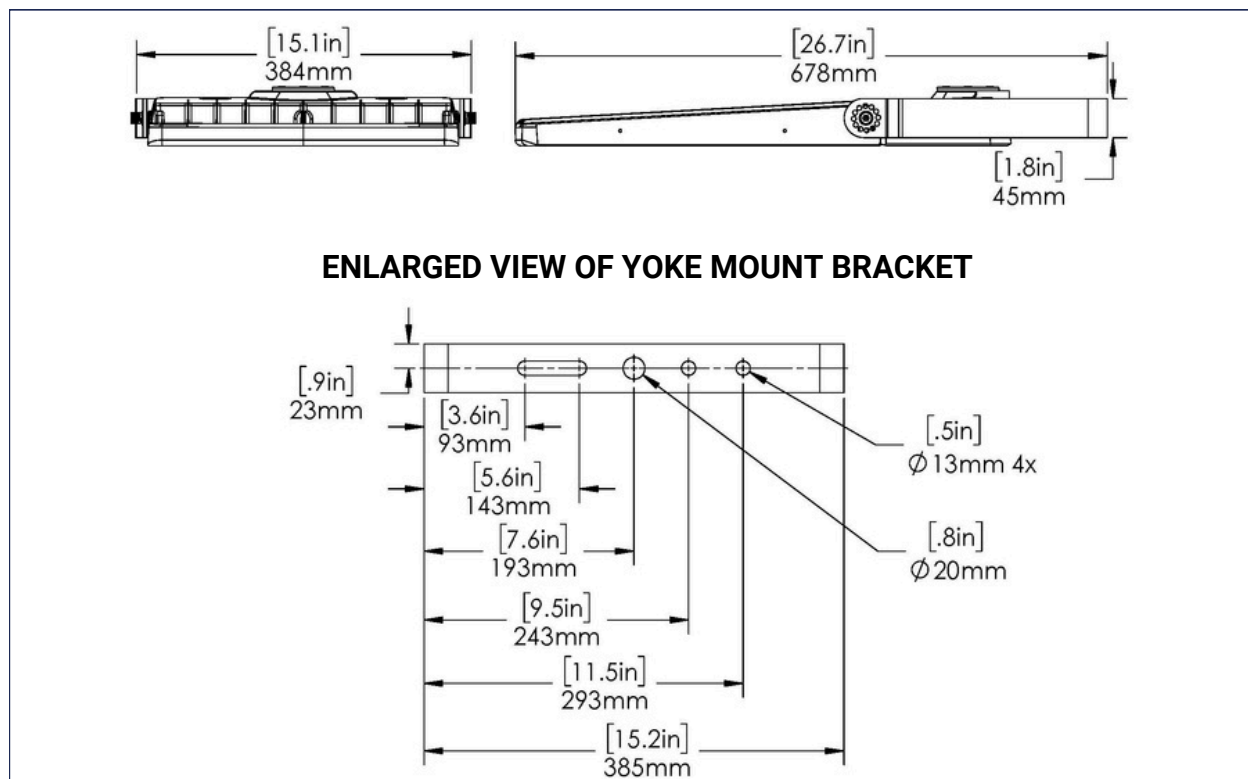


DIMENSIONS

FIXTURE WITHOUT MOUNT

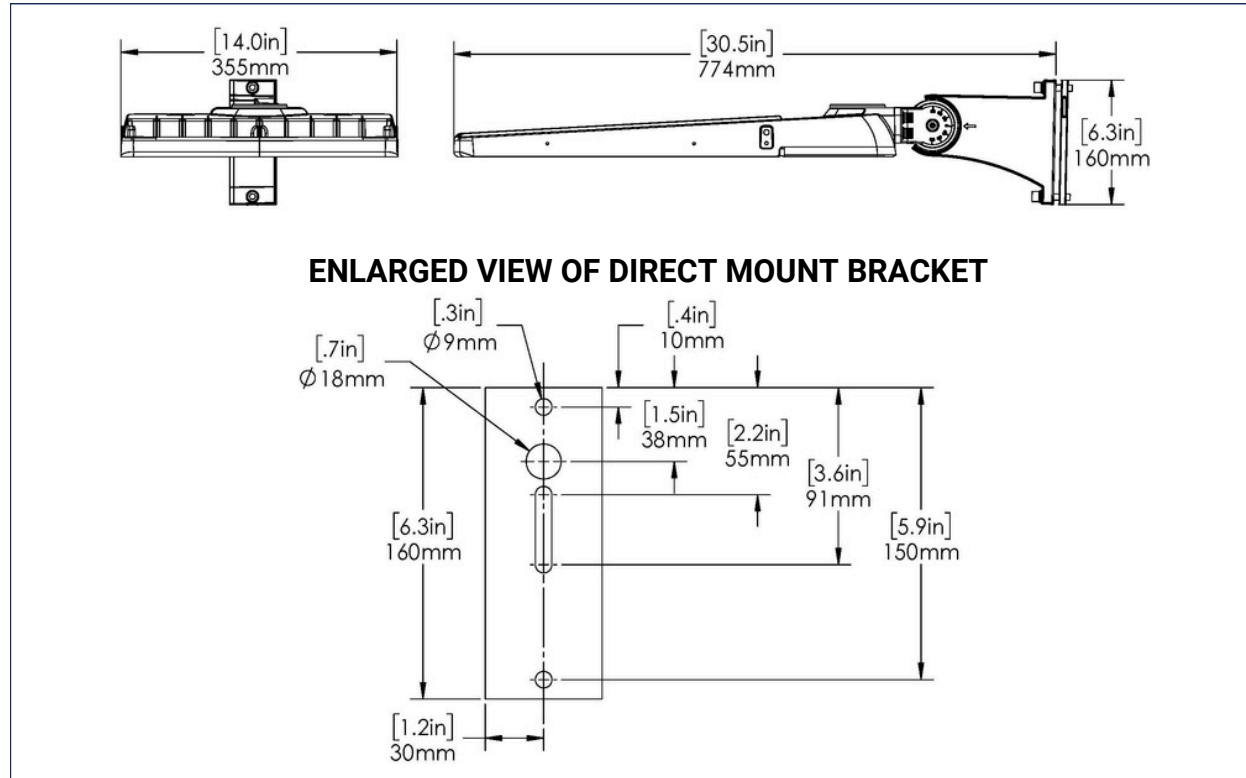


FIXTURE WITH YOKE MOUNT



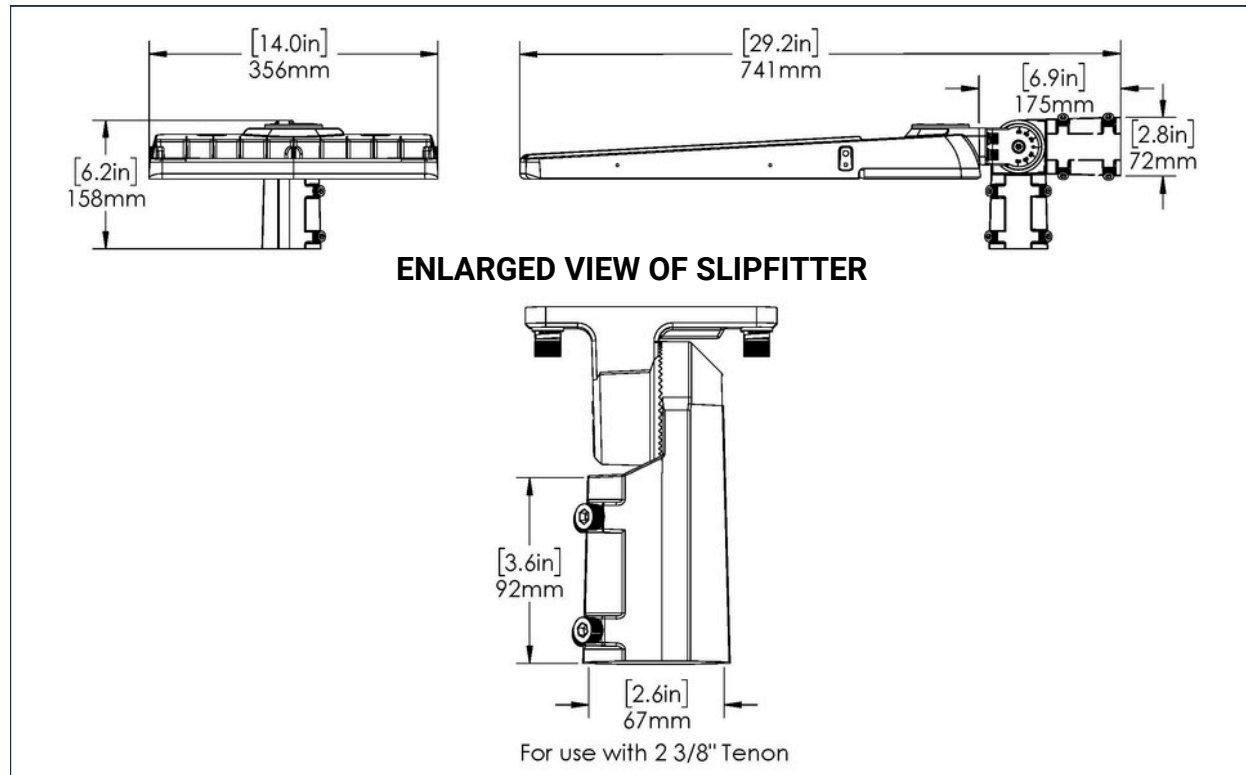
*Angle marking increment - 30°

FIXTURE WITH DIRECT MOUNT



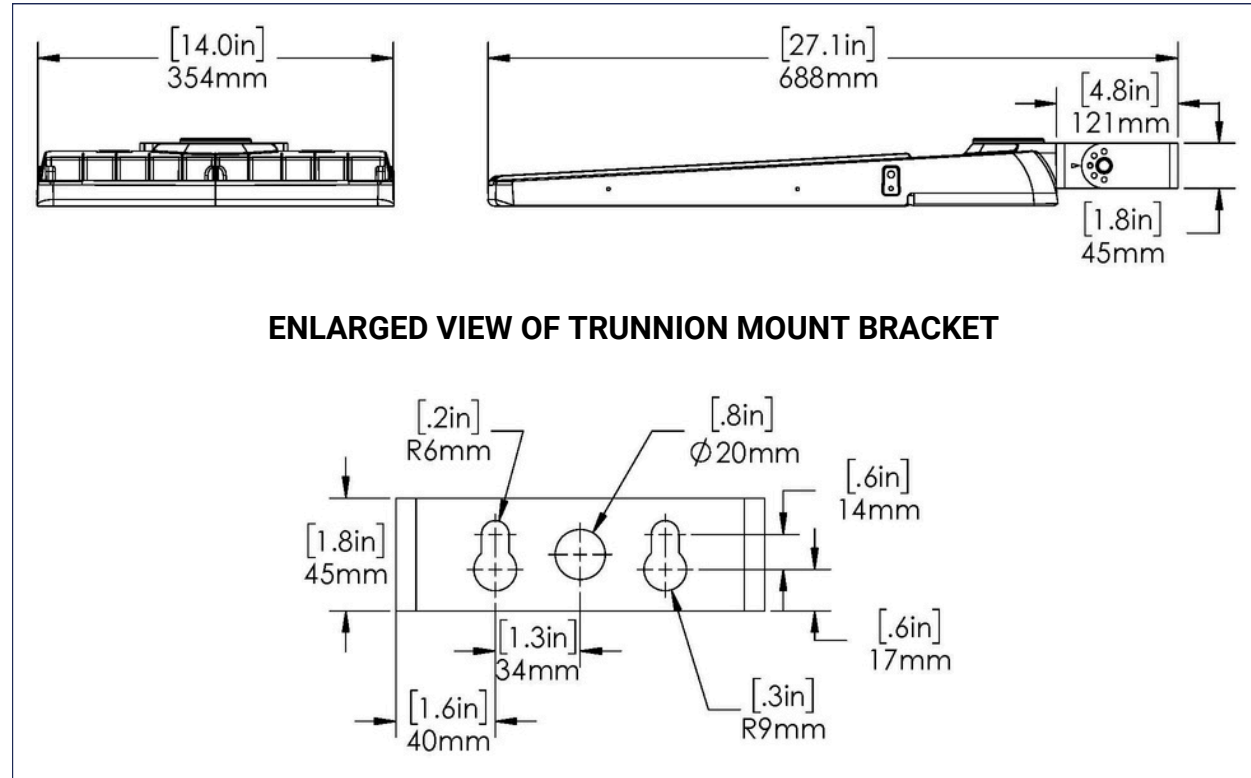
*Angle marking increment - 30°

FIXTURE WITH SLIPFITTER



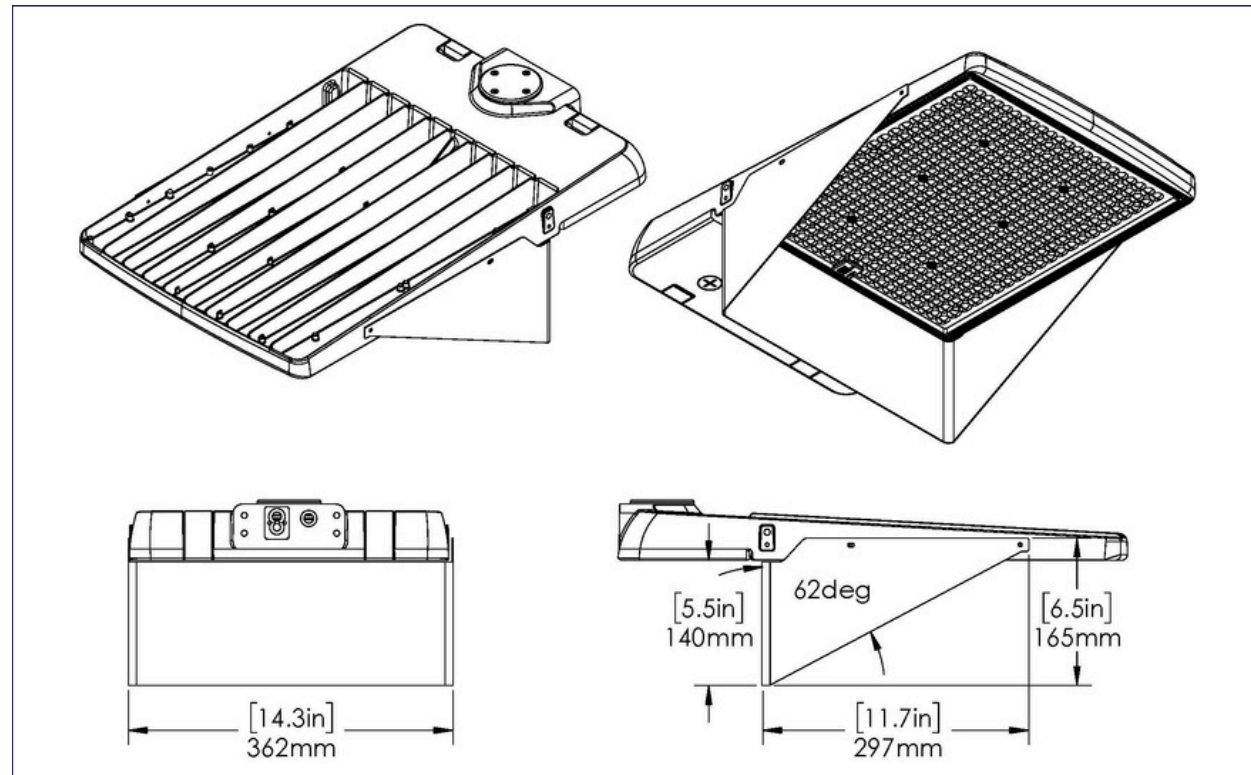
*Angle marking increment - 30°

FIXTURE WITH TRUNNION MOUNT

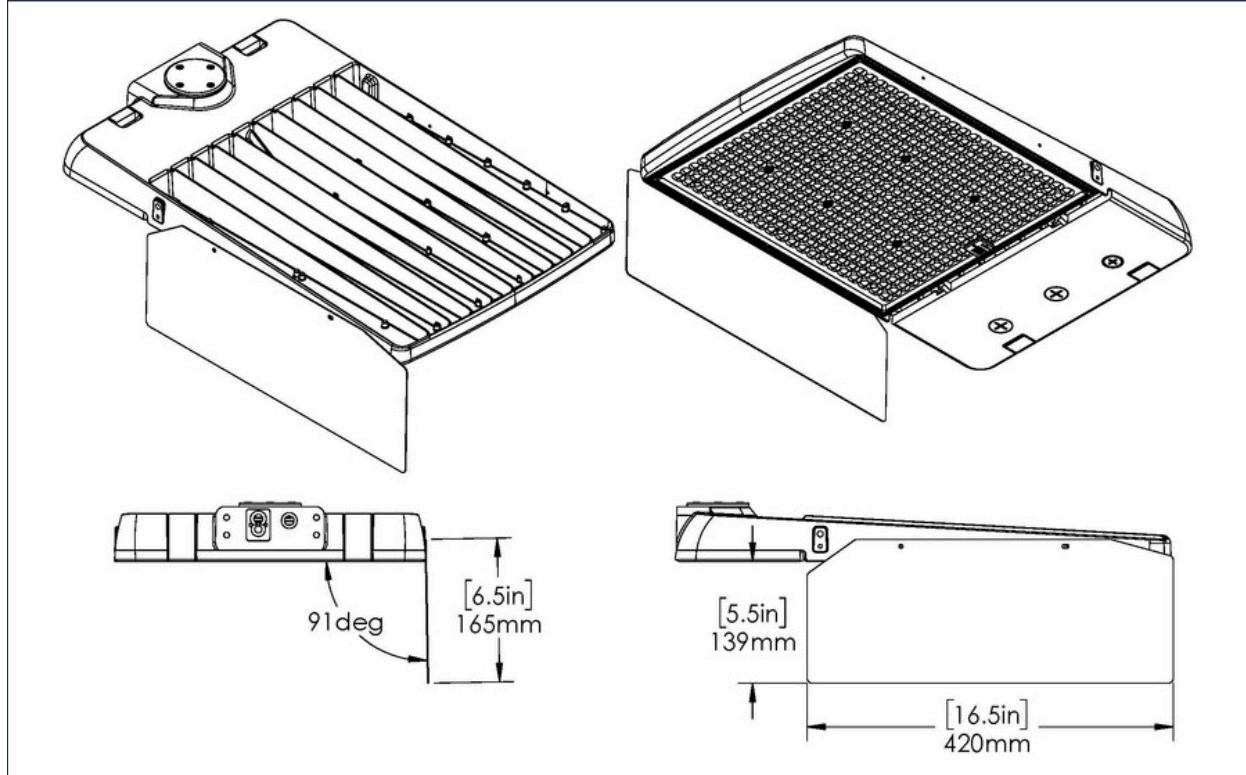


*Angle marking increment - 45°

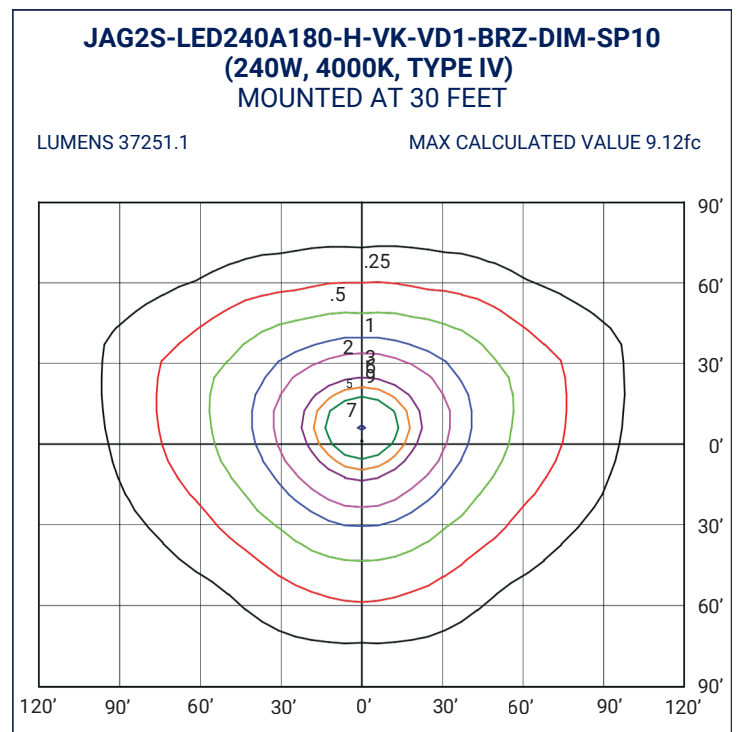
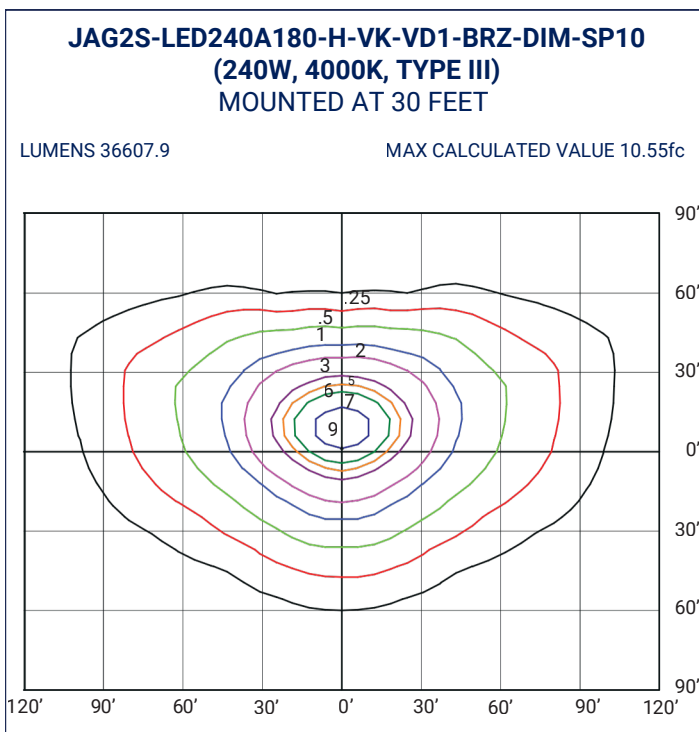
FIXTURE WITH HOUSE SIDE CUTOFF (HCO)



FIXTURE WITH SIDE CUTOFF (SCO)



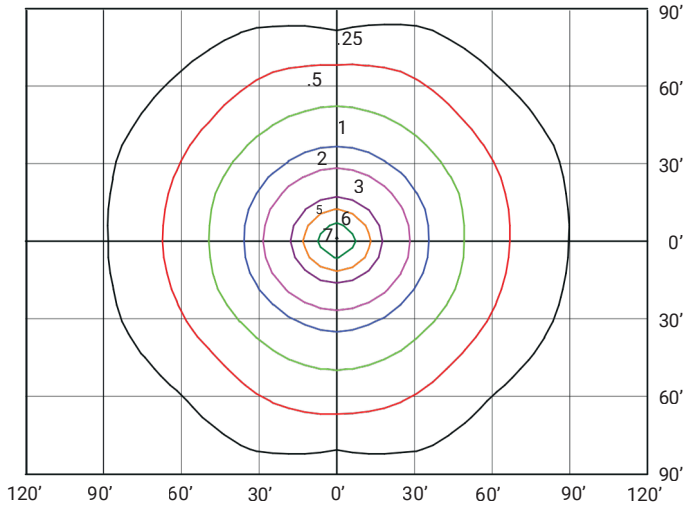
PHOTOMETRIC PLOTS



JAG2S-LED240A180-H-VK-VD1-BRZ-DIM-SP10
(240W, 4000K, TYPE V)
MOUNTED AT 30 FEET

LUMENS 35930.2

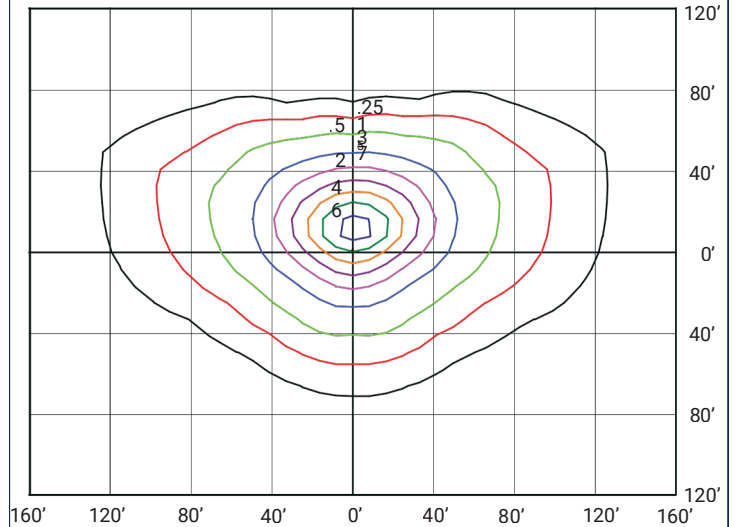
MAX CALCULATED VALUE 7.58fc



JAG2S-LED300A240-H-VK-VD1-BRZ-DIM-SP10
(300W, 4000K, TYPE III)
MOUNTED AT 40 FEET

LUMENS 45977

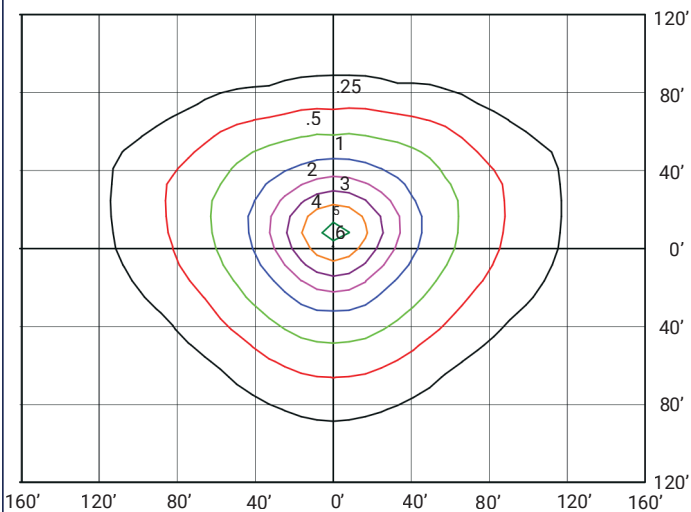
MAX CALCULATED VALUE 7.38fc



JAG2S-LED300A240-H-VK-VD1-BRZ-DIM-SP10
(300W, 4000K, TYPE IV)
MOUNTED AT 40 FEET

LUMENS 45505.8

MAX CALCULATED VALUE 6.30fc



JAG2S-LED300A240-H-VK-VD1-BRZ-DIM-SP10
(300W, 4000K, TYPE V)
MOUNTED AT 40 FEET

LUMENS 45357.6

MAX CALCULATED VALUE 5.49fc

