



G7SB AREA LIGHT

DESCRIPTION

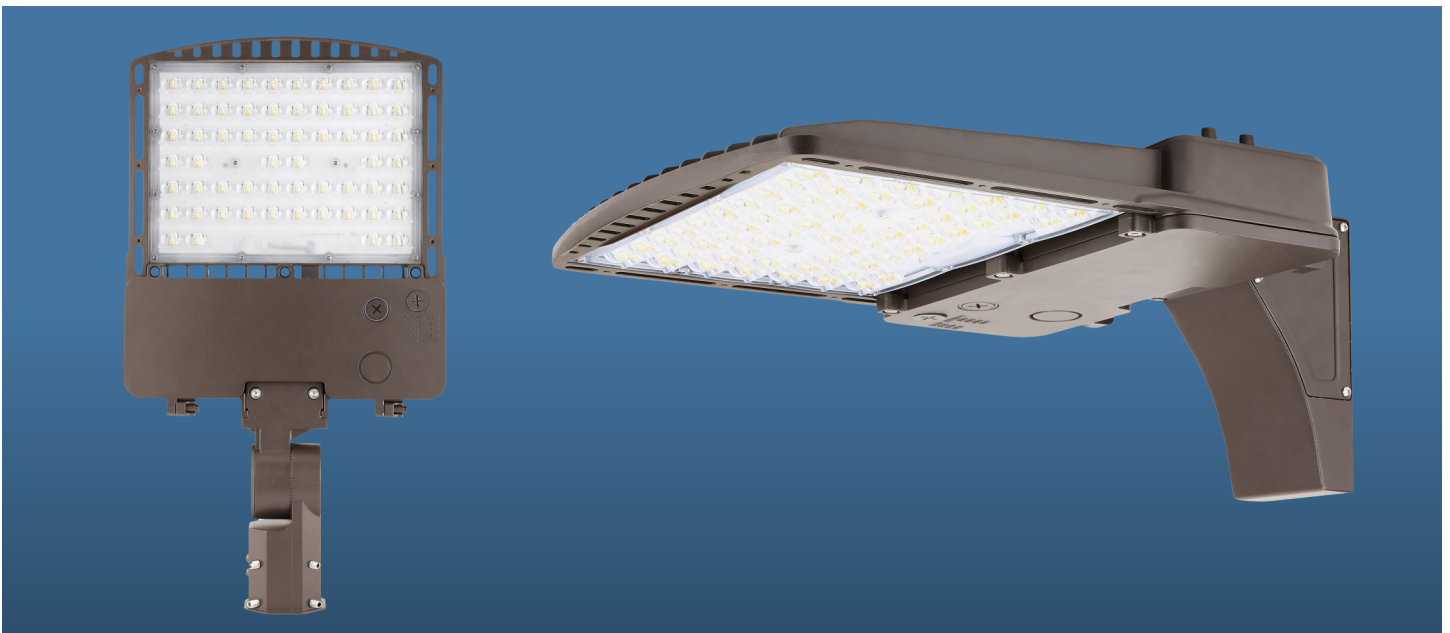
Jaykal's LED Area Light delivers superior photometric performance with uniform illumination, high efficacy, and an extended service life. Its low-profile design enhances aesthetics while maintaining optimal light distribution.

The luminaire features a one-piece die-cast aluminum housing with a UV-resistant powder coat finish, providing excellent thermal management and long-term corrosion resistance in demanding outdoor environments.

Engineered for ease of installation and reliable operation, this fixture is ideal for a wide range of commercial and outdoor applications, including auto dealerships, parking lots, walkways, roadways, campuses, facade lighting, grocery stores, and other public spaces.

FEATURES

- Wattage selectable from 40W to 400W
- Selectable CCT 3000K / 4000K / 5000K
- Smart Control Bluetooth / LLLC / 3rd party smart system compatible
- Sensors PIR / Microwave / Daylight / Occupancy
- Photocell NEMA 3-pin / 7-pin
- Mounting Arm / Slip fitter / Wall / Yoke / Adjustable Arm





| SPECIFICATIONS | | | | | | |
|-----------------------|---|----------------|-----------------|------------------|------------------|------------------|
| Model Name | G7SB | | | | | |
| Type | M1 | M2 | M3 | M4 | M5 | M6 |
| Wattage Options | 40/60/80/100W | 60/90/120/140W | 72/108/444/180W | 100/150/200/250W | 120/200/240/300W | 300/325/360/400W |
| BUG Rating @Type 3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | B4-U0-G4 | B4-U0-G4 | B4-U0-G4 |
| Input Voltage | 120-277 VAC / 277-480 VAC | | | | | |
| Dimming | 0-10V Dimming (10%-100%) | | | | | |
| Protection | Integral short circuit, open circuit, and overload protection | | | | | |
| Surge Protection | 10KV (120-277V) / 20KV (277-480V) | | | | | |
| Power Factor | >0.9 | | | | | |
| THD | <15% | | | | | |
| Operating Temperature | -40°C to +45°C (-40°F to 113°F) | | | | | |
| Lifespan | 100,000 Hours | | | | | |
| CRI | 70 | | | | | |
| Selectable Wattage | 40% / 60% / 80% / 100% | | | | | |
| Selectable CCT | 3000K / 4000K / 5000K Selectable | | | | | |
| Distribution Types | Type II / III / IV / V | | | | | |
| Lumen Range | 6,600 lm – 64,000 lm | | | | | |
| Housing Material | One-piece die-cast aluminum | | | | | |
| Finish Options | Black / Dark Bronze / Silver Gray / White | | | | | |
| Certification | UL Wet Location Listed | | | | | |
| DLC | DLC Premium Qualified | | | | | |
| FCC | FCC 47 CFR Part 15 Compliance | | | | | |
| Warranty | 5 Year Standard / 10 Year Optional | | | | | |

| ORDERING GUIDE | | | | EXAMPLE : JLS-G7SB-M2-277-7MCCT-SF-T3[COM] | | | |
|----------------|----------------------|--------------------------------|------------------------------|--|--|----------------|--|
| MODEL | WATTAGE | VOLTAGE | CCT | MOUNT | OPTICS | DESIGNATION | |
| JLS-G7SB | M1 =40/60/80/100W | 277 =120-277V 480 =277-480V | 7MCCT = 3000K/4000K/5000K | SPM = Square Pole Mount SF = Slip Fitter Mount WM = Wall Mount YM = Yoke Mount ASM = Adjustable Square Mount | T2 = Type II T3 = Type III T4 = Type IV T5 = Type V | [TAA] [COM] | |
| | M2 =60/90/120/140W | | | | | | |
| | M3 =72/108/444/180W | | | | | | |
| | M4 =100/150/200/250W | | | | | | |
| | M5 =120/200/240/300W | | | | | | |
| | M6 =300/325/360/400W | | | | | | |

Specifications are typical values and may change without notification



CONTROLS

LumaLinx ENHANCED (Bluetooth® Mesh)

| | |
|---|--------------------------------|
| High Bay Long Range Sensor | JLS-LLE-EFS106-AUX-W.A1 |
| Coverage @ 40ft height: Diameter 80ft | JLS-LLE-WHBL1-2-B (Wet Listed) |
| 0-10v Dimming 3.5mm jack, LR Antenna Round Waterproof Controller Node | JLS-LLE-WPPA102-AUX-W.B1 |



JLS-WPPA102-AUX-W.B1



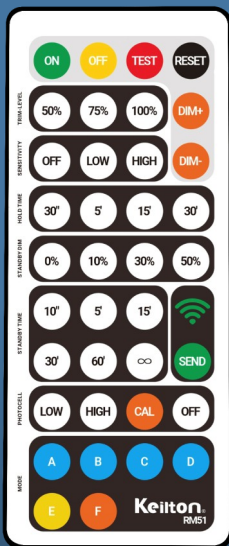
JLS-LLE-WHBL SERIES LENS



JLS-LLE-EFS106-AUX-W.A1

LumaLinx Essential (Basic Sensor)

| | |
|--|--------------------------------|
| High Bay Long Range Sensor | JLS-ESS-EFS07-AUX-W.B1 |
| Coverage @ 40ft height: Diameter 80ft | JLS-ESS-WHBL1-2-B (Wet Listed) |
| Remote Control Hand Unit Programmer | JLS-ESS-RM51 |
| Photocell | JLS-NEMA-PC |
| 7 Pin Photocell Receptable Pre-install | JLS-NEMA-7P-RECEPTACLE |



JLS-ESS-RM51



JLS-ESS-WHBL1-2-B LENS



JLS-ESS-EFS07-AUX-W.B1



JLS-NEMA-PC

Specifications are typical values and may change without notification



PERFORMANCE DATA (100W)

| SETTING | SYSTEM WATTS | DIST.TYPE | 3000K | | 4000K | | 5000K | |
|---------|--------------|--------------------|----------|----------|----------|----------|----------|----------|
| | | | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| 100% | 100W | Type II / III / IV | 14500 lm | 145 lm/W | 15800 lm | 158 lm/W | 15000 lm | 150 lm/W |
| | | Type V | 15100 lm | 151 lm/W | 16000 lm | 160 lm/W | 15600 lm | 156 lm/W |
| 80% | 80W | Type II / III / IV | 12000 lm | 150 lm/W | 13000 lm | 163 lm/W | 12500 lm | 156 lm/W |
| | | Type V | 12500 lm | 156 lm/W | 13300 lm | 166 lm/W | 12800 lm | 160 lm/W |
| 60% | 60W | Type II / III / IV | 9300 lm | 155 lm/W | 10000 lm | 167 lm/W | 9600 lm | 160 lm/W |
| | | Type V | 9600 lm | 160 lm/W | 10200 lm | 170 lm/W | 9850 lm | 164 lm/W |
| 40% | 40W | Type II / III / IV | 6400 lm | 160 lm/W | 6800 lm | 170 lm/W | 6560 lm | 164 lm/W |
| | | Type V | 6560 lm | 164 lm/W | 7000 lm | 175 lm/W | 6700 lm | 168 lm/W |

PERFORMANCE DATA (140W)

| SETTING | SYSTEM WATTS | DIST.TYPE | 3000K | | 4000K | | 5000K | |
|---------|--------------|--------------------|----------|----------|----------|----------|----------|----------|
| | | | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| 100% | 140W | Type II / III / IV | 20000 lm | 147 lm/W | 23000 lm | 164 lm/W | 21000 lm | 150 lm/W |
| | | Type V | 21000 lm | 150 lm/W | 23500 lm | 168 lm/W | 21500 lm | 154 lm/W |
| 80% | 120W | Type II / III / IV | 18000 lm | 150 lm/W | 20000 lm | 167 lm/W | 18500 lm | 154 lm/W |
| | | Type V | 18500 lm | 154 lm/W | 20500 lm | 171 lm/W | 19000 lm | 158 lm/W |
| 60% | 90W | Type II / III / IV | 13800 lm | 153 lm/W | 15200 lm | 169 lm/W | 14200 lm | 158 lm/W |
| | | Type V | 14000 lm | 156 lm/W | 15600 lm | 172 lm/W | 14500 lm | 161 lm/W |
| 40% | 60W | Type II / III / IV | 9400 lm | 157 lm/W | 10300 lm | 172 lm/W | 9700 lm | 162 lm/W |
| | | Type V | 9600 lm | 160 lm/W | 10500 lm | 175 lm/W | 10000 lm | 167 lm/W |

PERFORMANCE DATA (180W)

| SETTING | SYSTEM WATTS | DIST.TYPE | 3000K | | 4000K | | 5000K | |
|---------|--------------|--------------------|----------|----------|----------|----------|----------|----------|
| | | | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| 100% | 180W | Type II / III / IV | 25600 lm | 141 lm/W | 28200 lm | 158 lm/W | 26300 lm | 146 lm/W |
| | | Type V | 26300 lm | 145 lm/W | 29000 lm | 163 lm/W | 27000 lm | 149 lm/W |
| 80% | 144W | Type II / III / IV | 21100 lm | 145 lm/W | 23000 lm | 163 lm/W | 21500 lm | 149 lm/W |
| | | Type V | 21700 lm | 149 lm/W | 23600 lm | 168 lm/W | 22100 lm | 153 lm/W |
| 60% | 108W | Type II / III / IV | 16000 lm | 146 lm/W | 17500 lm | 166 lm/W | 16400 lm | 151 lm/W |
| | | Type V | 16400 lm | 150 lm/W | 18000 lm | 171 lm/W | 16850 lm | 157 lm/W |
| 40% | 72W | Type II / III / IV | 11000 lm | 151 lm/W | 12000 lm | 171 lm/W | 11300 lm | 156 lm/W |
| | | Type V | 11300 lm | 155 lm/W | 12340 lm | 176 lm/W | 11600 lm | 161 lm/W |

Specifications are typical values and may change without notification



PERFORMANCE DATA (250W)

| SETTING | SYSTEM WATTS | DIST.TYPE | 3000K | | 4000K | | 5000K | |
|---------|--------------|--------------------|----------|----------|----------|----------|----------|----------|
| | | | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| 100% | 250W | Type II / III / IV | 35200 lm | 141 lm/W | 39100 lm | 163 lm/W | 36500 lm | 146 lm/W |
| | | Type V | 36250 lm | 145 lm/W | 40300 lm | 168 lm/W | 37600 lm | 150 lm/W |
| 80% | 200W | Type II / III / IV | 28900 lm | 144 lm/W | 32200 lm | 168 lm/W | 30000 lm | 150 lm/W |
| | | Type V | 29800 lm | 149 lm/W | 33200 lm | 173 lm/W | 31000 lm | 155 lm/W |
| 60% | 150W | Type II / III / IV | 22400 lm | 149 lm/W | 24700 lm | 172 lm/W | 23100 lm | 154 lm/W |
| | | Type V | 23050 lm | 154 lm/W | 25500 lm | 177 lm/W | 24000 lm | 158 lm/W |
| 40% | 100W | Type II / III / IV | 15200 lm | 152 lm/W | 16800 lm | 175 lm/W | 15700 lm | 157 lm/W |
| | | Type V | 15700 lm | 157 lm/W | 17300 lm | 180 lm/W | 16100 lm | 161 lm/W |

PERFORMANCE DATA (300W)

| SETTING | SYSTEM WATTS | DIST.TYPE | 3000K | | 4000K | | 5000K | |
|---------|--------------|--------------------|----------|----------|----------|----------|----------|----------|
| | | | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| 100% | 300W | Type II / III / IV | 41000 lm | 137 lm/W | 45000 lm | 150 lm/W | 42000 lm | 140 lm/W |
| | | Type V | 42500 lm | 142 lm/W | 46000 lm | 153 lm/W | 43500 lm | 145 lm/W |
| 80% | 240W | Type II / III / IV | 33600 lm | 140 lm/W | 37000 lm | 154 lm/W | 34500 lm | 144 lm/W |
| | | Type V | 34500 lm | 144 lm/W | 38000 lm | 158 lm/W | 35500 lm | 148 lm/W |
| 60% | 180W | Type II / III / IV | 26000 lm | 144 lm/W | 28600 lm | 159 lm/W | 26600 lm | 148 lm/W |
| | | Type V | 26000 lm | 158 lm/W | 29700 lm | 165 lm/W | 27500 lm | 153 lm/W |
| 40% | 120W | Type II / III / IV | 18000 lm | 150 lm/W | 20000 lm | 167 lm/W | 18500 lm | 154 lm/W |
| | | Type V | 18500 lm | 154 lm/W | 20800 lm | 173 lm/W | 19000 lm | 158 lm/W |

Specifications are typical values and may change without notification



PERFORMANCE DATA (400W)

| Setting | System Watts | Dist. Type | 4000K | | 5000K | |
|---------|--------------|---------------|----------|----------|----------|----------|
| | | | Lumens | LPW | Lumens | LPW |
| LV1 | 400W | Type II / III | 62500 lm | 156 lm/W | 61500 lm | 154 lm/W |
| | | Type IV | 62000 lm | 155 lm/W | 61000 lm | 153 lm/W |
| | | Type V | 64000 lm | 160 lm/W | 63000 lm | 158 lm/W |
| LV2 | 360W | Type II / III | 57500 lm | 160 lm/W | 56500 lm | 157 lm/W |
| | | Type IV | 57000 lm | 158 lm/W | 56000 lm | 156 lm/W |
| | | Type V | 59000 lm | 164 lm/W | 58000 lm | 161 lm/W |
| LV3 | 325W | Type II / III | 52500 lm | 160 lm/W | 51500 lm | 161 lm/W |
| | | Type IV | 52000 lm | 163 lm/W | 51000 lm | 159 lm/W |
| | | Type V | 53500 lm | 167 lm/W | 52500 lm | 164 lm/W |
| LV4 | 300W | Type II / III | 48500 lm | 167 lm/W | 47500 lm | 164 lm/W |
| | | Type IV | 48000 lm | 166 lm/W | 47000 lm | 162 lm/W |
| | | Type V | 49500 lm | 171 lm/W | 48500 lm | 167 lm/W |

BUG @5000K

| System Watts | Voltage | Dist. Type | B | U | G |
|--------------|---------------------|------------|----|----|----|
| 100W | 120-277V / 347-480V | Type II | B3 | U0 | G3 |
| 100W | 120-277V / 347-480V | Type III | B3 | U0 | G3 |
| 100W | 120-277V / 347-480V | Type IV | B3 | U0 | G2 |
| 100W | 120-277V / 347-480V | Type V | B4 | U0 | G2 |

ELECTRICAL DATA

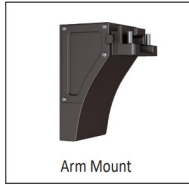
| Number of Drivers | Driver Output Current | Nominal Power | Input Voltage | Input Current |
|-------------------|-----------------------|---------------|---------------|---------------|
| 1 | 850mA | 100W | 120V | 0.83A |
| 1 | 1200mA | 140W | 120V | 1.17A |
| 1 | 960mA | 180W | 120V | 1.50A |
| 1 | 1200mA | 250W | 120V | 2.08A |
| 1 | 1500mA | 300W | 120V | 2.50A |
| 1 | 1460mA | 400W | 120V | 3.33A |

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MOUNTING

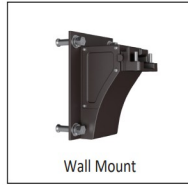
- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles.
- Optional for cast aluminum slipfitter mounting adapter (Compatible with more mounting adaptors such as Tenon, suits for various application).



(4" and 5" Square and Round poles)
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.



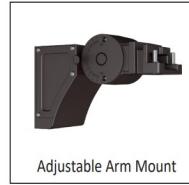
An optional cast aluminum mast arm adapter secures fixture head to nominal 2-3/8" O.D. horizontal steel tenon arm.



Wall Mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-box mounting.

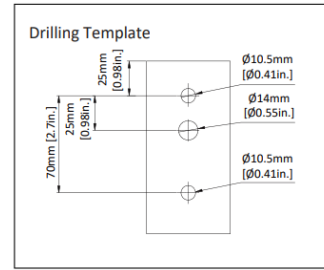
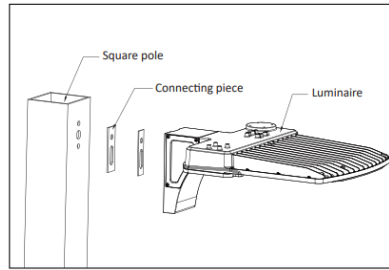
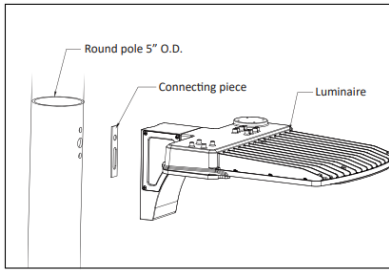


Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.



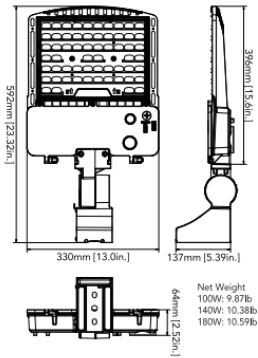
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

MOUNTING DIMENSIONS

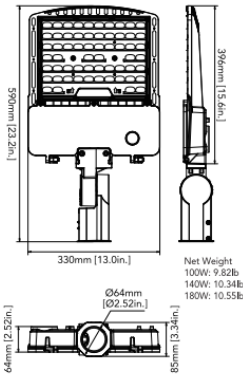


DIMENSIONS (Unit : mm/Inch)

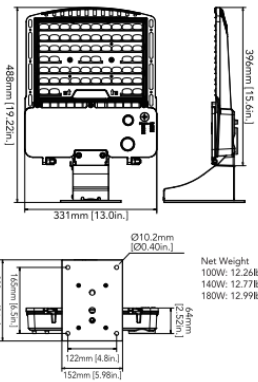
100W/140W/180W Adjustable Square Mount



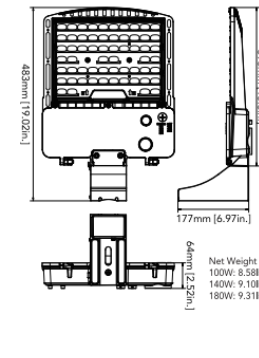
100W/140W/180W Slipfitter Mount



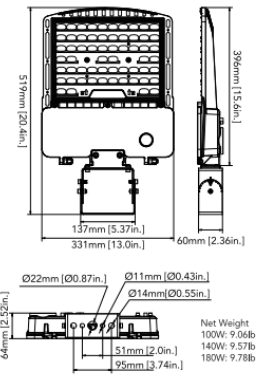
100W/140W/180W Wall Mount



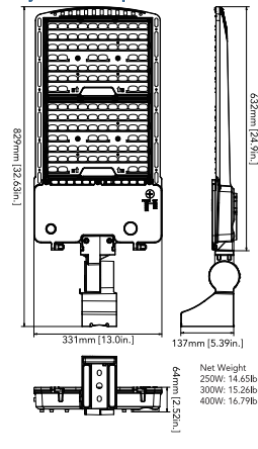
100W/140W/180W Pole Mount



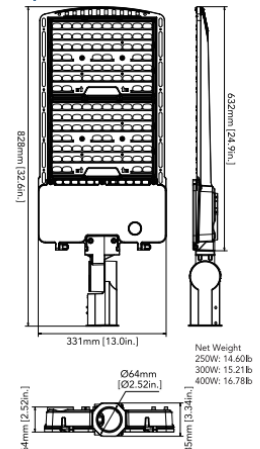
100W/140W/180W Yoke Mount



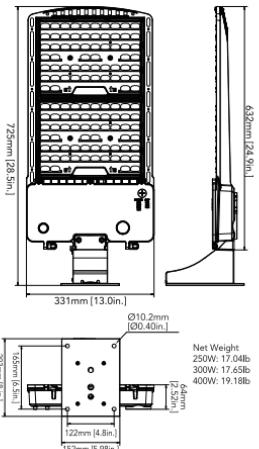
250W/300W/400W Adjustable Square Mount



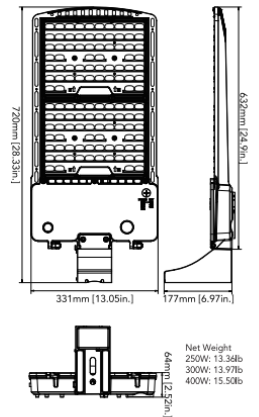
250W/300W/400W Slipfitter Mount



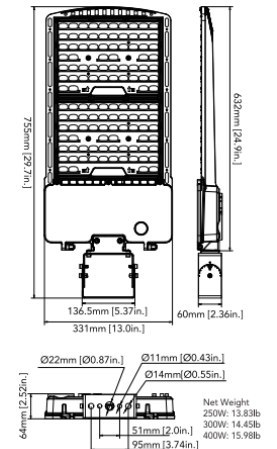
250W/300W/400W Wall Mount



250W/300W/400W Pole Mount




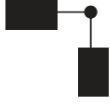


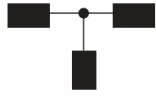
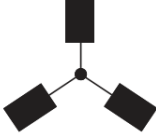

250W/300W/400W Yoke Mount



Specifications are typical values and may change without notification



MOUNTING DIMENSIONS

| Item |  |  |  |  |  |  |  |
|----------------|---|---|---|---|---|---|---|
| | 1 | 2 @90° | 2 @120° | 2 @180° | 3 @90° | 3 @120° | 4 @90° |
| 100W/140W/180W | 0.3632 | 0.6849 | 0.8861 | 0.7264 | 1.0481 | 1.2078 | 1.0481 |
| 250W/330W/400W | 0.4758 | 0.8091 | 1.059 | 0.9516 | 1.2849 | 1.3923 | 1.2849 |

PHOTOMETRICS

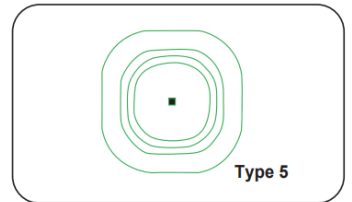
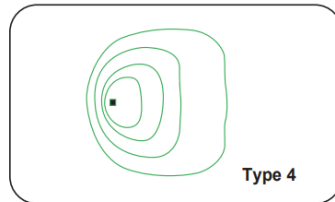
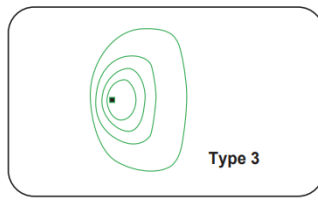
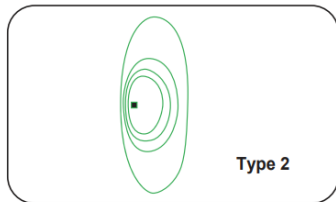
Jaykal offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

Type 2 optics are ideal for applications where there is a need to space the luminaires farther apart along a road or pathway. The light distribution pattern is optimized for elongated areas, allowing for greater pole spacing without sacrificing lighting quality.

Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.

Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications.



Specifications are typical values and may change without notification