

QuadroMAX® LED FIXTURE

QM SERIES



Mounting Options



PRODUCT DESCRIPTION:

Scalable to stretch across four categories of outdoor lighting, MaxLite's QuadroMAX cuts a striking figure in any application. Along with a fully scalable design accommodating up to 160 watts of LED's with different distributions, the QuadroMAX's interchangeable mounting accessories make it a complete solution for any project. Its svelte yet functional form is fully customizable, capable of outshining incumbent outdoor lighting with affordability and ease.

FEATURES:

- From 5,700 to 20,000 lumens
- Main housing designed to accept multiple mounting options.
- Depending on the mounting bracket selected, can be easily installed and used in canopy, area, flood and wall mounted applications
- 3 NEMA distributions available: Type III, Type IV and Type V
- Bottom-mounted occupancy sensor and top-mounted NEMA photocontrol receptacles available
- >130,000-hour L70 Lifetime (TM-21, @ 25°C)
- 0-10V dimmable driver standard available in 120-277V or 347/480V
- 20kV surge suppressor standard
- >102 lm/W
- CCT: 5000K and 4000K; CRI: >70
- Ten year limited warranty

CONSTRUCTION:

- Die cast A380 Aluminum; Steel construction for trunnion and copy mounts
- Single extrusion heat sink designed to maximize heat dissipation and maximize lifetime
- Independent LED engine arrays and optics
- Stainless steel hardware
- High efficiency PC lens optics
- 12"-18/5 SJT-600V shielded power feed cord included standard (Power and Control wires)

MODEL SELECTION Typical order example: QM-6AH7T340PM-B-RPC

| QM | | | | 7 | | | | | B | | |
|---------------------------|---|--|--|-------------------------------------|--|--------------------------------------|------------------------------------|---|---|---|---|
| FAMILY | - | LED ENGINES | DRIVER | DRIVE CURRENT | DISTRIBUTION | CCT | MOUNTING | - | COLOR | - | CONTROLS |
| QM= QuadroMAX LED Fixture | - | 2A= 24 LEDs, (55W) 6000-6300 lm 3A= 36 LEDs, (80W) 8900-9300 lm 4A= 48 LEDs, (110W) 12,000-12,600 lm 5A= 60 LEDs, (135W) 14,800-15,500 lm 6A= 72 LEDs, (160W) 17,800-18,600 lm | *U= 120-277V *H= 347-480V | 7= 700mA *8= 800mA | T3= Type III T4= Type IV T5= Type V | 40= 4000K 50= 5000K | N= None C= Canopy | - | B= Bronze, Standard. L= Black W= White | - | (OMIT)= None MS4= Sensor (Hi/Low/Off) RPC= NEMA Rotatable Photocontrol Receptacle (Standard) ² PR5= Photocontrol Receptacle 5 pin ² PR7= Photocontrol Receptacle 7 pin ² BPC= Button Photocontrol |

NOTES:

1. No controls included
2. *Only available on QM6A with 5-year warranty.
3. MS4 only available on 120-277V models.
4. Contact factory to program AstroDIM feature.
5. Mountings sold separately. Canopy mount sold with fixture.

MOUNTING ORDERING CODES:

| Order Example QM-SK-B | | | | |
|-----------------------|---|--|---|-----------------------------------|
| FAMILY | - | MOUNTING | - | COLOR |
| QM= | - | PM= Rigid Pole Mount SK= Slipfitter Knuckle SF= Slipfitter Fixed FS= Fixed Surface KS= Knuckle Surface TS= Trunnion Swivel WP= Wall Pack | - | B= Bronze L= Black W= White |

HID EQUIVALENCIES:

| MODEL # | LED WATTS | APROX LUMENS | EQ. HID |
|---------|-----------|--------------|-----------|
| QM-2A | 55 | 6,000 | 175W MH |
| QM-3A | 80 | 9,000 | 250W MH |
| QM-4A | 110 | 12,000 | 320 PSMH |
| QM-5A | 135 | 15,000 | 400W MH |
| QM-6A | 160 | 17,000 | 400W PSMH |
| QM-6AX8 | 185 | 20,000 | 400W PSMH |

MOUNTING: Mountings sold separately. Canopy mount sold with fixture.



Rigid Pole Mount (PM)



Slipfitter Knuckle (SK)



Slipfitter Fixed (SF)



Fixed Surface (FS)



Knuckle Surface (KS)



Trunnion Swivel (TS)



Wall Pack (WP)



Canopy (CP)

Sold with fixture.

SPECIFICATIONS:

| | | QM-XXXXXXXX-X-XXX |
|---------------------|-------------------------|---|
| ITEM | SPECIFICATION | DETAILS |
| GENERAL PERFORMANCE | Color Temperature (CCT) | 4000K, 5000K |
| | CRI | 70 min |
| | Efficacy | 102 to 116 LPW |
| | L70 @ 25°C | ≥ 130,000 hrs |
| ELECTRICAL | Power Factor | Over 90% |
| | Input Voltage | 120V-277V 50/60 Hz or 347-480V 50/60 Hz |
| PHYSICAL | Housing | Die cast aluminum with powder coat paint |
| | Lens | Polycarbonate |
| | Operating Temperature | -30°F to 104°F |
| | Dimensions | See PHYSICAL SPECIFICATIONS table on page 3 |
| | Weight | See PHYSICAL SPECIFICATIONS table on page 3 |
| CERTIFICATION | Certification | DLC Premium, UL 1598, LM-80, LM-79, TM-21 |
| | Environment | Dry & Wet Location |
| | Humidity | 5% - 90% RH, non condensing |
| | Warranty | 10 years |

CONTROLS OPTIONS:

MS4 Options

- Omni-directional quad element infrared sensor
- Frequency detection zero-cross relay switching
- 0-10V selectable output for low dim control
- 8 Control modes set via rotary DIP switch
- 7 dimming levels and 7 delay time settings via AccuSet

PR5 or PR7 options:

Allow the use of 3rd party distributed intelligence controllers designed to connect to the fixture via our NEMA standard C136.41 5- or 7-pin twist lock receptacle to provide dimming and On/Off control.

AstroDIM (Night time energy reduction pre-programmed feature):

Factory programmable feature providing autonomous dimming without the need for external control wiring. The driver will execute a preset dimming profile to reduce night-time power consumption. The dimming is regulated by an integrated timer which adjusts the dimming profile according to the operation hours from the previous night (operation from switch-on to switch-off). The dimming profile integrates into existing installations, with an algorithm that ignores power interruptions. This profile can provide 5-30% energy savings depending on the dimming profile, without the need for external controls or motion sensors. Please consult with factory prior to ordering.

EPA SPECIFICATIONS:

| EFFECTIVE PROJECTED AREA (EPA) IN SQ. FT [SINGLE FIXTURE] | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|
| FIXTURE TILT/AIMING ANGLE | | | | | | | | | |
| MODEL NUMBER | 0° | 10° | 20° | 30° | 45° | 60° | 70° | 80° | 90° |
| QM-2A | 0.44 | 0.44 | 0.66 | 0.89 | 1.19 | 1.42 | 1.52 | 1.59 | 1.61 |
| QM-3A | 0.49 | 0.49 | 0.75 | 1.02 | 1.37 | 1.64 | 1.76 | 1.84 | 1.86 |
| QM-4A | 0.53 | 0.53 | 0.84 | 1.15 | 1.56 | 1.87 | 2.01 | 2.1 | 2.13 |
| QM-5A | 0.58 | 0.58 | 0.93 | 1.28 | 1.74 | 2.09 | 2.25 | 2.35 | 2.39 |
| QM-6A | 0.63 | 0.63 | 1.02 | 1.41 | 1.93 | 2.32 | 2.51 | 2.62 | 2.66 |

PHYSICAL SPECIFICATIONS:

| MAIN BODY FIXTURE | | | | |
|-------------------|--------|-------|--------|----------|
| | LENGTH | WIDTH | HEIGHT | WEIGHT |
| QM-2A | 12.9" | 13.6" | 2.5" | 10.0 lbs |
| QM-3A | 15.2" | 13.6" | 2.5" | 11.7 lbs |
| QM-4A | 17.6" | 13.6" | 2.5" | 14.6 lbs |
| QM-5A | 19.9" | 13.6" | 2.5" | 16.6 lbs |
| QM-6A | 22.3" | 13.6" | 2.5" | 18.6 lbs |

PHOTOMETRIC PERFORMANCE:

AREA LIGHT

| | | 4000K | | | | | |
|--------------|-------|--------|-----|--------|-----|--------|-----|
| | | T3 | | T4 | | T5 | |
| MODEL NUMBER | WATTS | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| QM-2A | 55 | 5,915 | 105 | 5,768 | 103 | 5,848 | 104 |
| QM-3A | 80 | 8,694 | 107 | 8,505 | 102 | 8,758 | 106 |
| QM-4A | 110 | 11,864 | 110 | 11,299 | 105 | 11,675 | 108 |
| QM-5A | 135 | 14,624 | 107 | 13,960 | 106 | 14,417 | 108 |
| QM-6A | 160 | 17,775 | 109 | 17,332 | 107 | 17,537 | 107 |

| | | 5000K | | | | | |
|--------------|-------|--------|-----|--------|-----|--------|-----|
| | | T3 | | T4 | | T5 | |
| MODEL NUMBER | WATTS | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| QM-2A | 55 | 6,108 | 108 | 5,933 | 104 | 6,090 | 105 |
| QM-3A | 80 | 9,108 | 111 | 8,845 | 107 | 9,060 | 110 |
| QM-4A | 110 | 12,506 | 113 | 12,038 | 111 | 12,291 | 114 |
| QM-5A | 135 | 15,385 | 116 | 14,869 | 112 | 15,258 | 113 |
| QM-6A | 160 | 17,953 | 113 | 17,661 | 108 | 17,839 | 110 |

PHOTOMETRIC PERFORMANCE:
FLOOD LIGHTING

| 4000K | | | | | | | |
|-----------|--------|-----|------|------------------|----------|-------------------|----------|
| MODEL# | LUMENS | LPW | NEMA | BEAM ANGLE (50%) | | FIELD ANGLE (10%) | |
| | | | | HORIZONTAL | VERTICAL | HORIZONTAL | VERTICAL |
| QM-2AxxT3 | 5,915 | 105 | 7x6 | 119° | 42° | 138° | 107° |
| QM-2AxxT4 | 5,768 | 103 | 7x6 | 108° | 29° | 140° | 127° |
| QM-2AxxT5 | 5,848 | 104 | 7x7 | 120° | 122° | 136° | 141° |
| QM-3AxxT3 | 8,694 | 107 | 7x6 | 120° | 34° | 140° | 112° |
| QM-3AxxT4 | 8,505 | 102 | 7x6 | 111° | 29° | 143° | 130° |
| QM-3AxxT5 | 8,758 | 106 | 6x7 | 96° | 140° | 115° | 149° |
| QM-4AxxT3 | 11,864 | 110 | 7x6 | 121° | 39° | 141° | 114° |
| QM-4AxxT4 | 11,299 | 105 | 7x6 | 116° | 32° | 146° | 129° |
| QM-4AxxT5 | 11,675 | 108 | 7x7 | 122° | 121° | 135° | 136° |
| QM-5AxxT3 | 14,624 | 107 | 7x6 | 121° | 40° | 143° | 115° |
| QM-5AxxT4 | 13,960 | 106 | 7x7 | 116° | 34° | 147° | 133° |
| QM-5AxxT5 | 14,417 | 108 | 7x7 | 123° | 124° | 143° | 144° |
| QM-6AxxT3 | 17,775 | 109 | 7x6 | 124 | 36° | 147° | 112° |
| QM-6AxxT4 | 17,332 | 107 | 7x7 | 118 | 36° | 148° | 135° |
| QM-6AxxT5 | 17,537 | 107 | 6x7 | 106 | 140° | 126° | 149° |

| 5000K | | | | | | | |
|-----------|--------|-----|------|------------------|----------|-------------------|----------|
| MODEL# | LUMENS | LPW | NEMA | BEAM ANGLE (50%) | | FIELD ANGLE (10%) | |
| | | | | HORIZONTAL | VERTICAL | HORIZONTAL | VERTICAL |
| QM-2AxxT3 | 6,108 | 108 | 7x6 | 119° | 36° | 136° | 113° |
| QM-2AxxT4 | 5,933 | 104 | 7x7 | 116° | 32° | 146° | 130° |
| QM-2AxxT5 | 6,090 | 105 | 7x6 | 140° | 95° | 149° | 112° |
| QM-3AxxT3 | 9,108 | 111 | 7x6 | 125° | 47° | 149° | 119° |
| QM-3AxxT4 | 8,845 | 107 | 7x7 | 108° | 266° | 141° | 139° |
| QM-3AxxT5 | 9,060 | 110 | 6x7 | 107° | 140° | 128° | 149° |
| QM-4AxxT3 | 12,506 | 113 | 7x6 | 125° | 49° | 149° | 120° |
| QM-4AxxT4 | 12,038 | 111 | 7x7 | 107° | 26° | 140° | 138° |
| QM-4AxxT5 | 12,291 | 114 | 6x7 | 109° | 140° | 127° | 149° |
| QM-5AxxT3 | 15,385 | 116 | 7x6 | 129° | 50° | 154° | 120° |
| QM-5AxxT4 | 14,869 | 112 | 7x7 | 110° | 27° | 143° | 141° |
| QM-5AxxT5 | 15,258 | 113 | 6x7 | 108° | 140° | 127° | 149° |
| QM-6AxxT3 | 17,953 | 113 | 7x6 | 124° | 40° | 147° | 113° |
| QM-6AxxT4 | 17,661 | 108 | 7x7 | 122° | 36° | 150° | 139° |
| QM-6AxxT5 | 17,839 | 110 | 7x7 | 123° | 123° | 143° | 143° |

BACKLIGHT, UPLIGHT, AND GLARE

| 4000K | | | | | | | | | |
|--------------|-----------|---------|-------|-----------|---------|-------|-----------|---------|-------|
| | T3 | | | T4 | | | T5 | | |
| MODEL NUMBER | BACKLIGHT | UPLIGHT | GLARE | BACKLIGHT | UPLIGHT | GLARE | BACKLIGHT | UPLIGHT | GLARE |
| QM-2AU7 | B1 | U1 | G1 | B1 | U1 | G1 | B3 | U1 | G1 |
| QM-3AU7 | B2 | U1 | G2 | B2 | U1 | G2 | B3 | U1 | G2 |
| QM-4AU7 | B2 | U1 | G2 | B2 | U1 | G2 | B4 | U1 | G2 |
| QM-5AU7 | B3 | U2 | G3 | B2 | U2 | G2 | B4 | U2 | G2 |
| QM-6AU7 | B3 | U2 | G3 | B3 | U2 | G3 | B4 | U2 | G2 |

| 5000K | | | | | | | | | |
|--------------|-----------|---------|-------|-----------|---------|-------|-----------|---------|-------|
| | T3 | | | T4 | | | T5 | | |
| MODEL NUMBER | BACKLIGHT | UPLIGHT | GLARE | BACKLIGHT | UPLIGHT | GLARE | BACKLIGHT | UPLIGHT | GLARE |
| QM-2AU7 | B2 | U1 | G1 | B1 | U1 | G2 | B3 | U1 | G1 |
| QM-3AU7 | B2 | U1 | G2 | B2 | U1 | G2 | B3 | U1 | G2 |
| QM-4AU7 | B3 | U1 | G3 | B2 | U1 | G2 | B4 | U1 | G2 |
| QM-5AU7 | B3 | U2 | G3 | B2 | U2 | G3 | B4 | U2 | G2 |
| QM-6AU7 | B3 | U2 | G3 | B3 | U2 | G3 | B4 | U2 | G2 |

ISOFOOTCANDLE:

The distance of the side of each square represents 1 mounting height.

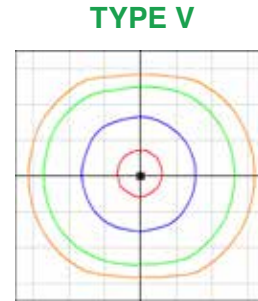
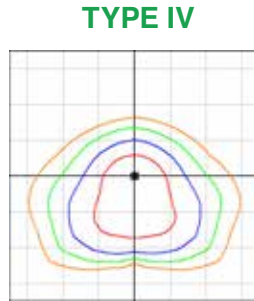
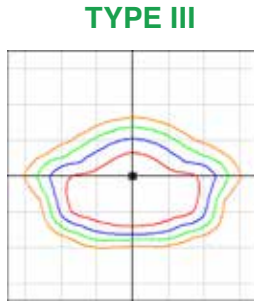
For mounting heights other than noted multiply FC by factor:

$$\text{Factor} = \frac{(\text{Chart's Mtg Height})^2}{(\text{Actual Mtg Height})^2}$$

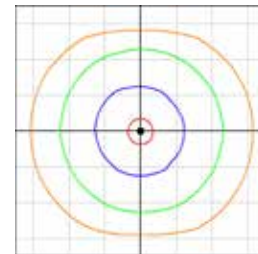
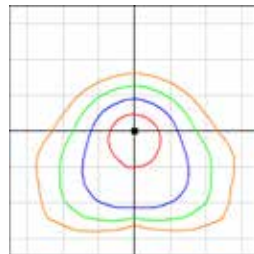
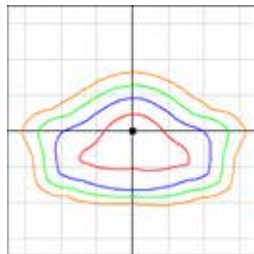
LEGEND

- 0.25 fc
- 0.50 fc
- 1.00 fc
- 2.00 fc

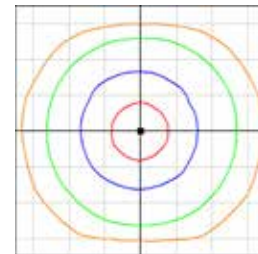
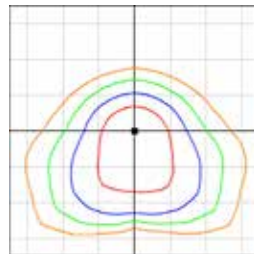
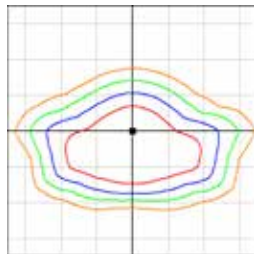
QM-2A
15 ft mounting height



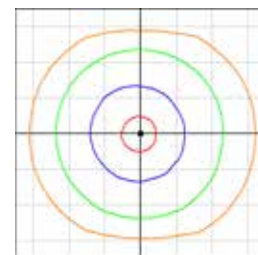
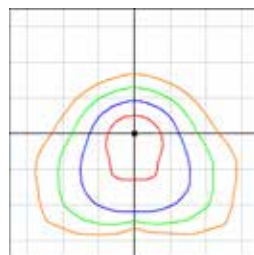
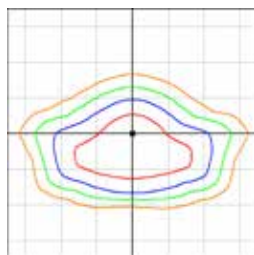
QM-3A
20 ft mounting height



QM-4A
20 ft mounting height



QM-5A
25 ft mounting height



QM-6A
30 ft mounting height

