Shown with Arm Mounting Option.

Shown with "EH" Easy-Hang Wall Bracket

Shown with "SF' Slipfitter Option.

Catalog Number:	
Project:	
Comments:	
Prepared By:	Date:

Description

The Lumecon AmberLED Q-KH15Q luminaire is available in two wattages with a wide choice of mounting configurations and an IES Type V distribution designed to replace HID lighting systems from 70w to 175w MH or HPS for wildlife, dark skies, or security applications requiring monochromatic AMBER light. LEDs operate between 585 and 595 nm, greater than 560nm required for wildlife protection. Typical applications include general area, parking, flood, security, and accent lighting for retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 10 to 20 feet can be used based on light level and uniformity requirements.

Technical Specifications

Housing: Die Cast Aluminum Housing and Front Frame, Integral Heat Sinking and Driver Compartment. Photocell Adaptable. Nickel-Plated Stainless Steel Hardware.

Lens: Tempered Clear Flat Glass Lens.

Mounting: Mounts with Adjustable Knuckle, Kitty Hawk Arm, Adjustable Slipfitter, 2⅜″ Diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (Factory Installed).

Finish: Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

AmberLED: Aluminum Boards

Wattage: 22w: Array: 22w, System: 25.4w; (Up to 100w HID Equivalent.)
37w: Array: 37w, System: 38.2w; (Up to 175w HID Equivalent.)

Driver: Electronic Driver, 120-277V, 50/60Hz or 347V, 50/60Hz (37w Model Only); Less Than 20% THD and PF>0.90. Standard Internal Surge Protection is 2kV for 22w, 6kV for 37w. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

Controls: Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with Lumecon Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage.

Certification Data: CSA: Listed for Wet Locations, ANSI/UL 1598, 8750; IP66 Sealed LED Compartment.

Buy American Act: The product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations.
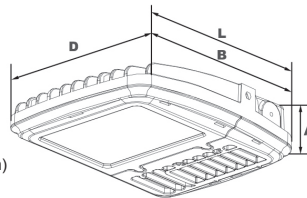
Warranty: 5-Year Warranty for -40°C to +50°C Environment.

Dimensions

Width (D)	9 1/2" (240mm)
Length (B)	11 3/4" (299mm)
Height (A)	3 5/8" (92mm)
Length with Mount (L)	**Kitty Hawk Arm (KA):** 16″ (406mm) **Slipfitter (SF):** 15½″ (394mm) **Mounting Arm Adaptor (MA):** 16″ (406mm) **Yoke (Y):** 14¾″ (375mm) **Bracket (BR):** 15½″ (394mm) **Easy-Hang Wall Bracket (KHEH):** 12¾″ (324mm) **Knuckle (K):** 17¾″ (450mm)

CSA | Buy American Act Compliant

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Ordering Information

Q-KH15Q – Options / Ordering Example: Q-KH15Q-F-1X37-U-AM-C-Z-KA-SP

Model	Optics / Beam	Wattage	Driver	CCT	Lens	Color	Mounting	Options
Q-KH15Q	F - Type V / NEMA 7H x 7V	1x22 - 22W 1x37 - 37W *37W only*	U - 120-277V H - 347-480V* *37W only*	AM - 1400K	C - Standard Clear Flat Glass Lens	Z - Dark Bronze C - Custom Color	KA - Arm SF - Slipfitter MA - Mounting Arm Adapter Y - Yoke BR - Two Piece Swivel Bracket EH - Easy-Hang Wall Bracket K - 1/2 NPS Knuckle NM - No Mount	SF - Single Fuse* DF - Double Fuse* SP - Surge Protection M1 - Motion Senor (for 20' to 35' mounting heights) M2 - Motion Sensor (for 18' or less mounting heights) PC3 - 120-277V Photocell P12 - 277V Pencil Photocell P14 - 120-277V Pencil Photocell *120-277V Models only*

Accessories & Replacement Parts

Mounting Accessories
(Order Separately, Field Installed)

KH20RPZ	Die-Cast Adaptor for 3″ to 5″ Round Poles, Bronze Powdercoat Finish. Use with KH25A Kitty Hawk Mounting Arm only
KH20WMZ	Die-Cast Wall Mount Adaptor, Bronze Powdercoa Finish. Use with KH25A Kitty Hawk Mounting Arm only
PTSB1SZ	Single Pole Tenon Spoke Bracket, 2⅜″ Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.
PTSB290SZ	Twin Pole Tenon Spoke Bracket, 2⅜″ Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB2180SZ	Twin Pole Tenon Spoke Bracket, 2⅜″ Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB390SZ*	Triple Pole Tenon Spoke Bracket, 2⅜″ Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware
PTSB3120SZ*	Triple Pole Tenon Spoke Bracket, 2⅜″ Horizontal 120° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB490SZ*	Quad Pole Tenon Spoke Bracket, 2⅜″ Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware

Non-stock item. Consult factory for lead time.

KH20RPZ   KH20WMZ   PTSB1SZ   PTSB290SZ

PTSB2180SZ   PTSB390SZ*   PTSB3120SZ*   PTSB490SZ*

Mounting Accessories
(Order Separately, Field Installed)

ACCHSG1Z	Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish
KH15GSZ	Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware.
KH15WG	Wire Guard, Stainless Steel Construction, Includes Hardware.
KH15BFZ	Baffle, Aluminum with Bronze Powdercoat Finish

ACCHSG1Z   KH15GSZ   KH15WG*   KH15BFZ*

Replacement Parts
(Order Separately, Field Installed)

KH25AZ	Kitty Hawk Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.
ALMAAZ	Die-Cast Adaptor for 2⅜″ Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
KH15YZ	Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware
FL73SFXZ	External Mount Die-Cast Adjustable Slipfitter for 2⅜″ Tenons, Bronze Powdercoat Finish, Includes Hardware.
FL73BRZ	Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware
KHEHZ	Die-Cast Easy-Hang Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.
PFLSTZ	Die-Cast Adjustable Knuckle with ½″ NPS Threads, Bronze Powdercoat Finish.
P18103	120-277VAC Photocell
P18112	208-277V 240VAC Pencil Photocell
P18114	120-277V, 50/60Hz Pencil Photocell

P18103   P18112   P18114

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Mounting Options

Q-KH15Q with Kitty Hawk Arm (KA)

Kitty Hawk Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.

Q-KH15Q with Pole Mounting Arm Adaptor (MA)

Die-Cast Adaptor for 2⅜″ Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

Q-KH15Q with Yoke (Y)

Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.

Q-KH15Q with "SF" External Mount Slipfitter (SF)

External Mount Die-Cast Adjustable Slipfitter for 2⅜″ Tenons, Bronze Powdercoat Finish, Includes Hardware.

Q-KH15Q with Two-Piece Swivel Bracket (BR)

Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.

Q-KH15Q with Easy-Hang Bracket (EH)

Die-Cast Easy-Hang Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.

Q-KH15Q with Knuckle (K)

Die-Cast Adjustable Knuckle with ½″ NPS Threads, Bronze Powdercoat Finish.

EPA (Effective Projected Area)

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	0.35	11 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
2@180° Mount	0.70	22 Lbs
2@90° Mount	0.48	22 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
3@90° Mount	0.77	33 Lbs
3@120° Mount	0.70	33 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
4@90° Mount	0.77	44 Lbs

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Performance Data

LED Board Watts	Drive Current (mA)	Input Watts		Optics	Amber LEDs				
					Lumens	LPW	B	U	G
AmberLED 22w	525	25	F	Type V	1,159	46	1	1	0
AmberLED 37w	525	38	F	Type V	1,738	46	1	2	0

LED Board Watts	Drive Current (mA)	Input Watts		Beam	Amber LEDs	
					Lumens	LPW
AmberLED 22w	525	25	F	110H x 110V, NEMA 7H x 7V	1,149	46
AmberLED 37w	525	38	F	110H x 110V, NEMA 7H x 7V	1,724	45

Projected Lumen Maintenance

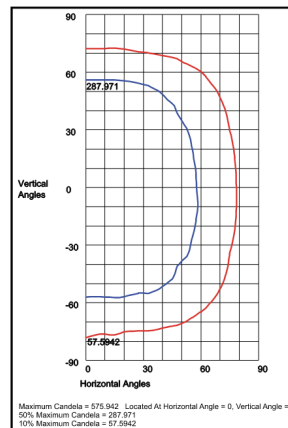| Data shown for Amber LEDs		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 38w	1.00	0.98	0.95	0.91	320,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.95	0.89	0.79	141,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.96	0.93	0.85	134,000

NOTES:
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems

Photometric Data
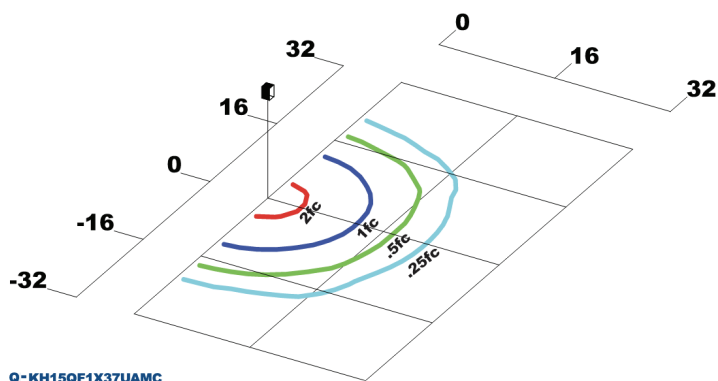
Q-KH15QF1X37UAMC
Type V
Grid in MH
MH=16 Feet

Maximum Candela = 575.942   Located At Horizontal Angle = 0, Vertical Angle = 9
50% Maximum Candela = 287.971
10% Maximum Candela = 57.5942

Q-KH15QF1X37UAMC
110H x 110V, NEMA 7H x 7V

Spectral Chart