Lumecon
WILDLIFE FRIENDLY SERIES

Q-KH45Q
AmberLED Technology

Shown with "SF' Slipfitter Mounting Option.

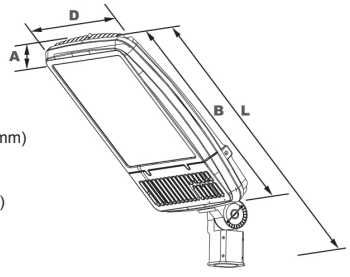
Catalog Number:	
Project:	
Comments:	
Prepared By:	Date:

Description

The Lumecon AmberLED Q-KH45Q cut-off area, wall mounted or flood light luminaire is available with a wide choice of mounting configurations and IES Type III or V distributions or a 30° narrow beam designed to replace HID lighting systems up to 400w 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 lighting applications include retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting can be accomplished using ground attachment accessories and to heights of 16 to 35 feet based on light level and uniformity requirements.

Dimensions

Width (D)	15¾" (400mm)
Length (B)	22" (559mm)
Height (A)	4" (102mm)
Length with Mount (L)	**Kitty Hawk Arm (KA):** 27½" (699mm) **Slipfitter (SF):** 29½" (743mm) **Mounting Arm Adaptor (MA):** 26⅛" (664mm) **Yoke (Y):** 26¼" (667mm) **Bracket (BR):** 25¾" (654mm) **Wall Mount Bracket (WM):** 23¼" (605mm)



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 Slipfitter, 2⅜" Diameter Mounting Arm Adapter, Yoke, Two- Piece Bracket or Wall Mount Bracket. (Factory Installed)

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

AmberLED: Aluminum Boards

Wattage: Array: 167.3w, System: 180w

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 Dimmers.

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.

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Ordering Information

Q-KH45Q – Options / Ordering Example: Q-KH45Q-F-1X167-U-AM-C-Z-KA-SP

Model	Optic	Wattage	Driver	CCT	Lens	Color	Mounting	Options
Q-KH45Q	C - Type III* F - Type V I - Narrow* **Special order, 6 week lead time*	1x167 - 167W	U - 120-277V H - 347-480V	AM - 1400K	C - Standard Clear Flat Glass Lens	Z - Bronze C - Custom Color	KA - Arm SF - Slipfitter[1] MA - Mounting Arm Adapter Y - Yoke BR - Two Piece Swivel Bracket[1] WM - Wall Mount 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) R3 - 3-Pin Twist Lock Photocell Receptacle R5 - 5-Pin Twist Lock Photocell Receptacle R7 - 7-Pin Twist Lock Photocell Receptacle S23 - Internal Microwave Sensor with Dimming for Mounting Heights of 35´ or Less.* S43 - Microwave On/Off Motion Sensor for Mounting Heights of 8´ to 19´.* **120-277V Models only*

Notes
1. Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options

Accessories & Replacement Parts

Round Pole & Wall Adaptors for KA Arm

KH40RPZ
Die-Cast Adaptor for 4" to 6" Round Poles, Bronze Powdercoat Finish.

KH40WMZ
Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish.

Pole Tenon Spoke Brackets

PTSB1SZ

PTSB290SZ

PTSB2180SZ

PTSB390SZ*

PTSB3120SZ*

PTSB490SZ*

2¾" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware. Mounts to 2¾" Vertical Pole Top Tenons. *Non-stock item. Consult factory for lead time

Accessories (Order Separately, Field Installed)

P18131	Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.
P18132	Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten.
P18140	110-120VAC Instant Twist Lock Photocell
P18152	277VAC Time Delay Twist Lock Photocell
P18157	480VAC Time Delay Twist Lock Photocell. For 480V use only.
ACCHSG1Z	Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish
KH45GSZ	Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware.
KH45WG	Wire Guard, Stainless Steel Construction, Includes Hardware.
ACCHSG3	Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket & Gasket.

ACCHSG1Z

KH45GSZ

KH45WG

ACCHSG3

Replacement Parts (Order Separately, Field Installed)

KH45AZ	Kitty Hawk Mounting Arm, Mounts Directly to Square Poles, Bronze Powdercoat Finish
FL73SFXZ	External Mount Slipfitter, Die Cast, Bronze Powdercoat Finish
ALMAAZ	Pole Mounting Arm Adaptor, Fits 2⅜" Arm, Includes Hardware, Bronze Powdercoat Finish
KH45YZ	Yoke, Stamped Heavy-Duty Steel, Bronze Powdercoat Finish
FL73BRZ	Two-Piece Swivel Bracket, Stamped Steel, Bronze Powdercoat Finish
WBR2Z	Wall Bracket, Heavy-Duty Stamped Steel, Bronze Powdercoat Finish, Includes Hardware.
P17117	Internal Microwave Sensor with Dimming, 120- 277VAC, 50/60Hz. See AIP17117 Specification Page for Details.
P17123	Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz

P17117

P17123

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Mounting Options

Q-KH45Q with Arm (KA)

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

Q-KH45Q with Pole Mounting Arm Adaptor (MA)

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

Q-KH45Q with Yoke (Y)

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

Q-KH45Q with "SF" External Mount Slipfitter (SF)

External Mount Die-Cast Adjustable Slipfitter for 2⅞" Tenons, Bronze Powdercoat Finish, Includes Hardware.

Q-KH45Q with Two-Piece Swivel Bracket (BR)

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

Q-KH45Q with Wall Mount (WM)

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

Notes
① **Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options**

EPA (Effective Projected Area)

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	1.00	33 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
2@180° Mount	2.00	66 Lbs
2@90° Mount	1.36	66 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
3@90° Mount	2.20	99 Lbs
3@120° Mount	2.00	99 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
4@90° Mount	2.20	132 Lbs

Performance Data

					Amber LEDs				
LED Board Watts	Drive Current (mA)	Input Watts		Optics	Lumens	LPW	B	U	G
AmberLED 167w	525	180	F	Type V	5,717	32	2	2	1

					Amber LEDs	
LED Board Watts	Drive Current (mA)	Input Watts		Beam	Lumens	LPW
AmberLED 167w	525	180	F	115H x 110V, NEMA 7H x 7V	5,673	32

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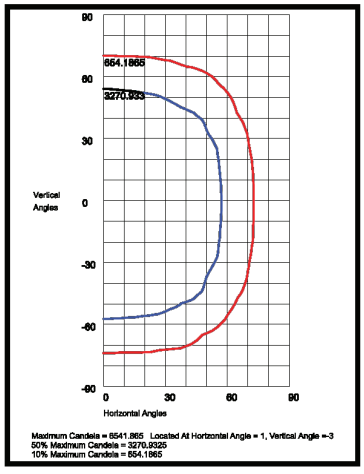
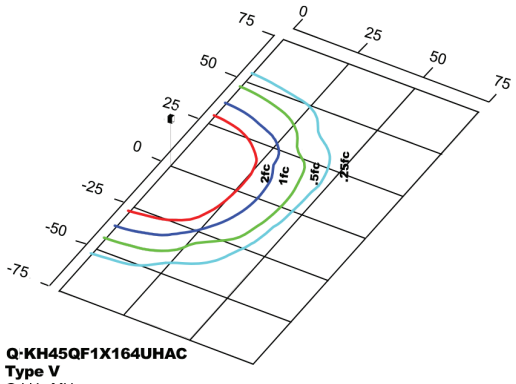
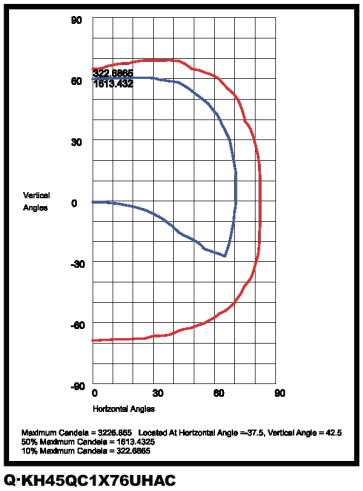
Photometric Data



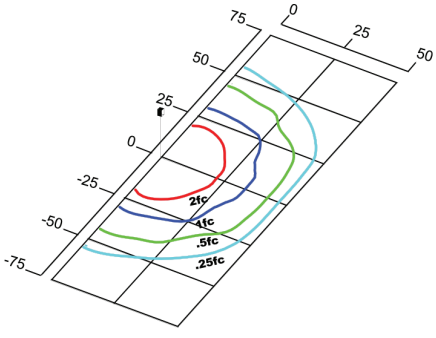
Q·KH45QF1X164UHAC
115°H x 110°V Beam, NEMA 7H x 7V



Q·KH45QF1X164UHAC
Type V
Grid in MH
MH=25 Feet

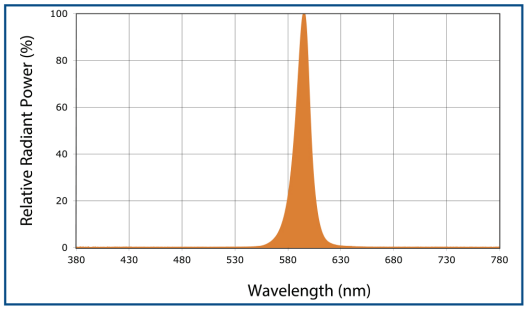


Q·KH45QC1X76UHAC
120°H x 70°V Beam, NEMA 7H x 7V



Q·KH45QC1X76UHAC
Type III
Grid in MH
MH=25 Feet

Spectral Chart



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