



Catalog Number:

Project:

Comments:

Prepared By:

Date:

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, 2" 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: 81w: Array: 80.5w, System: 86.6w; (150-250w HID Equivalent.)

Driver: Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 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.

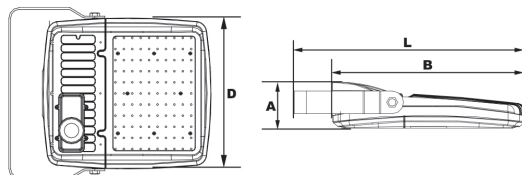
Warranty: 5-Year Warranty for -40°C to +50°C Environment.

Description

The Lumecon AmberLED Q-KH25Q luminaire is available with a wide choice of mounting configurations and an IES Type V distribution designed to replace HID lighting systems from 150w to 250w 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 14 to 25 feet can be used based on light level and uniformity requirements.

Dimensions

Width (D)	13 3/8" (340mm)	Length with Mount (L)	Kitty Hawk Arm (KA): 19 1/4" (491mm)
Length (B)	15" (381mm)		Slipfitter (SF): 18 3/4" (476mm)
Height (A)	3 5/8" (92mm)		Mounting Arm Adaptor (MA): 19 1/8" (486mm)
			Yoke (Y): 18" (457mm)
			Bracket (BR): 18 3/4" (476mm)
			Easy-Hang Wall Bracket (EH): 16" (406mm)





Ordering Information

Q-KH25Q – Options / Ordering Example: Q-KH25Q-F-1X37-U-AM-C-Z-KA-SP

Model	Optics / Beam	Wattage	Driver	CCT	Lens	Color	Mounting	Options
Q-KH25Q	F - Type V / NEMA 7H x 7V	1x81 - 81W	U - 120-277V H - 347-480V	AM - 1400K	C - Standard Clear Flat Glass Lens	Z - Dark Bronze C - Custom Color	KA - Arm SF - Slipfitter ¹ MA - Mounting Arm Adapter Y - Yoke BR - Two Piece Swivel Bracket ¹ EH - Easy-Hang Wall Bracket NM - No Mount	SF - Single Fuse* DF - Double Fuse* SP - Surge Protection M1 - Motion Sensor (for 20' to 35' mounting heights) M2 - Motion Sensor (for 18' or less mounting heights) R3 - 3-Pin Twist Lock Photocell Receptacle ¹ R5 - 5-Pin Twist Lock Photocell Receptacle ¹ R7 - 7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle S23 - Internal Microwave Sensor with dimming for mounting heights of 25' 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

Mounting Accessories (Order Separately, Field Installed)	Mounting Accessories (Order Separately, Field Installed)	Replacement Parts (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	P18131 Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.	KH25GL Tempered Clear Flat Glass Lens.
KH20WMZ Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish. Use with KH25A Kitty Hawk Mounting Arm only	P18132 Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten	KH25AZ Kitty Hawk Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.
PTSB1SZ Single Pole Tenon Spoke Bracket, 2½" Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.	P18140 110-120VAC Instant Twist Lock Photocell	ALMAAZ Die-Cast Adaptor for 2½" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB290SZ Twin Pole Tenon Spoke Bracket, 2½" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.	P18152 277VAC Time Delay Twist Lock Photocell	KH25YZ Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware
PTSB2180SZ Twin Pole Tenon Spoke Bracket, 2½" Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.	P18156 120-277VAC Universal Twist Lock Photocell	FL73SFXZ External Mount Die-Cast Adjustable Slipfitter for 2½" Tenons, Bronze Powdercoat Finish, Includes Hardware.
PTSB390SZ* Triple Pole Tenon Spoke Bracket, 2½" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware	P18157 480VAC Time Delay Twist Lock Photocell. For 480V use only.	FL73BRZ Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware
PTSB3120SZ* Triple Pole Tenon Spoke Bracket, 2½" Horizontal 120° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.	ACCHSG1Z Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish	KHEHZ Die-Cast Easy-Hang Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.
PTSB490SZ* Quad Pole Tenon Spoke Bracket, 2½" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware	KH25GSZ Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware.	P17117 Internal Microwave Sensor with Dimming, 120-277VAC, 50/60Hz. See P17117 Specification Page for Details.
	KH25WG Wire Guard, Stainless Steel Construction, Includes Hardware.	P17123 Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz
	KH25BFZ Baffle, Aluminum with Bronze Powdercoat Finish	
	ACCHSG3 Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket.	

***Non-stock item. Consult factory for lead time.**

KH20RPZ**KH20WMZ****PTSB1SZ****PTSB290SZ**

PTSB2180SZ**PTSB390SZ*****PTSB3120SZ*****PTSB490SZ***

ACCHSG1Z**KH25GSZ****KH25WG****KH25BFZ***

ACCHSG3

P17117**P17123**



Mounting Options



Q-KH25Q with Kitty Hawk Arm (KA)

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



Q-KH25Q with Pole Mounting Arm Adaptor (MA)

Die-Cast Adaptor for 2 1/2" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.



Q-KH25Q with Yoke (Y)

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



Q-KH25Q with "SF" External Mount Slipfitter (SF)

External Mount Die-Cast Adjustable Slipfitter for 2 1/2" Tenons, Bronze Powdercoat Finish, Includes Hardware.



Q-KH25Q with Two-Piece Swivel Bracket (BR)

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




Q-KH25Q with Easy-Hang Bracket (EH)



Die-Cast Easy-Hang Wall Bracket, 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	0.60	15 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
 2@180° Mount	1.20	30 Lbs
 2@90° Mount	0.82	30 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
 3@90° Mount	1.32	45 Lbs
 3@120° Mount	1.20	45 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
 4@90° Mount	1.32	60 Lbs

Performance Data

					Amber LEDs				
LED Board Watts	Drive Current (mA)	Input Watts		Optics	Lumens	LPW	B	U	G
AmberLED 81w	525	82	F	Type V	2,607	32	1	2	0

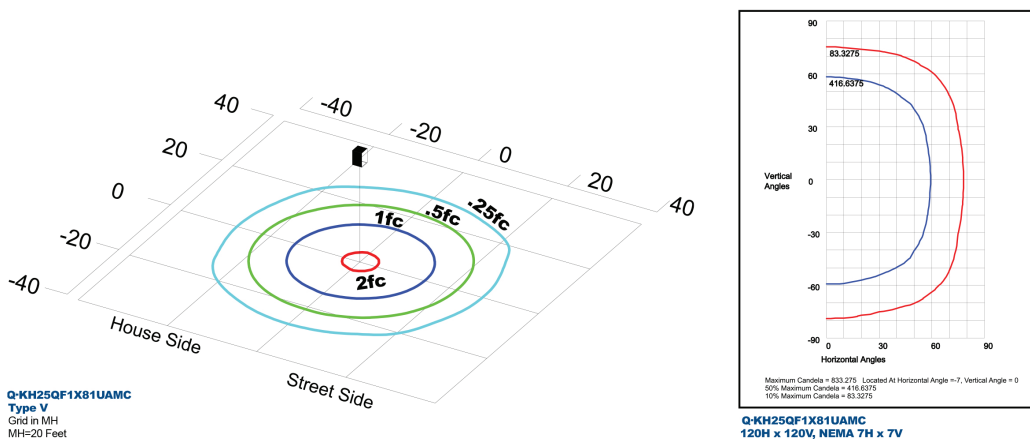
Projected Lumen Maintenance

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	82w	1.00	0.98	0.97	0.93	429,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.97	0.94	0.88	259,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.97	0.95	0.90	195,000

NOTES:

- 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.
- Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems

Photometric Data



Spectral Chart

