


**L70**  
25°C

**320,000 Hours**


Shown with "KA" Kitty Hawk Arm Mounting Option.



Shown with "EH" Easy-Hang Wall Bracket



Shown with Battery Backup Option. Only Available with "EH" Wall Mount Bracket.



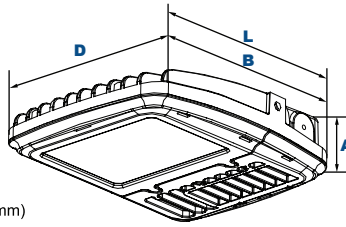
Shown with "SF" Slipfitter Option.

## Dimensions

<b>Width (D)</b>	9½" (240mm)
<b>Length (B)</b>	11¾" (299mm)
<b>Height (A)</b>	3¾" (92mm)

**Length with Mount (L)**

<b>Kitty Hawk Arm (KA):</b>	16" (406mm)
<b>Slipfitter (SF):</b>	15½" (394mm)
<b>Mounting Arm Adaptor (MA):</b>	16" (406mm)
<b>Yoke (Y):</b>	14¾" (375mm)
<b>Bracket (BR):</b>	15½" (394mm)
<b>Easy-Hang Wall Bracket (KHEH):</b>	12¾" (324mm)
<b>Knuckle (K):</b>	17¾" (450mm)



## PRODUCT DESCRIPTION

The KH15Q luminaire is available in two wattages with a wide choice of mounting configurations and optical distributions designed to replace HID lighting systems from 70w to 175w MH or HPS. 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.

## FEATURES

### Housing:

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

### Listing & Ratings:

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

### Finish:

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

### Lens:

Tempered Clear Flat or SoftLED Flat Glass Lens

### Mounting Options:

Mounts with Adjustable Knuckle, Kitty Hawk Arm, Adjustable Slipfitter, 23/8 Diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (Factory Installed).

### EasyLED LED:

Aluminum Boards

### Driver:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 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 LEPG Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

### Battery Backup:

Battery Backup Option Includes Accessory Housing (Ships Separately). Empty Accessory Housing is Available For Use When a Uniform Building Aesthetic is Desired.

### Warranty:

5-Year Warranty for -40°C to +50°C Environment.  
See Page 5 for Projected Lumen Maintenance Table.

## ORDERING INFORMATION

EXAMPLE: KH15Q-F-1X37-U-5K-C-Z-KA-SP



Model	Optics/Beam	Wattage	Driver	CCT	Lens	Color	Mounting	Options
<b>KH15Q</b> =EasyLED Mini Bentley Kitty Hawk Area, Wall, and Flood Light	<b>C</b> =Type III/ NEMA 7H x 7V <b>F</b> =Type V/ NEMA 7H x 7V <b>I</b> =Narrow Beam/ NEMA 4H x 4V*  *22 & 37w, 5K Model Only. See Page 3 & 4 for Distribution Information.	<b>1X22</b> =22w <b>1X37</b> =37w  <b>OPTIMIZED 1X56</b> =56w	<b>U</b> =120-277V <b>H</b> =347V-480*  *37w Model Only.	<b>3K</b> =3000K* <b>4K</b> =4000K* <b>5K</b> =5000K  *37w F Optic or 22w C & F Optic Models Only. * C & F Optic Only.	<b>C</b> =Standard Clear Flat Glass Lens <b>S</b> =SoftLED Flat Glass Lens*  *Type V Optic Only.	<b>Z</b> =Bronze <b>C</b> =Custom (Consult Factory)	<b>KA</b> =Kitty Hawk Arm <b>SF</b> =Slipfitter <b>MA</b> =Mounting Arm Adapter <b>Y</b> =Yoke <b>BR</b> =Two-Piece Swivel Bracket <b>EH</b> =Easy-Hang Wall Bracket <b>K</b> =½" NPS Knuckle <b>NM</b> =No Mount	<b>SF</b> =Single Fuse* <b>DF</b> =Double Fuse* <b>SP</b> =Surge Protection <b>M1</b> =Motion Sensor, IR for mounting heights of 20ft to 35ft <b>M2</b> =Motion Sensor, IR for mounting heights of 18ft or less <b>PC3</b> =Photocell, 120-277VAC <b>P10</b> =Pencil Photocell, 120VAC <b>P12</b> =Pencil Photocell, 277VAC <b>P14</b> =Pencil Photocell, 120-277VAC <b>BU4</b> =Battery Backup, 90 Minutes* <b>BUC4</b> =Cold Start Battery Backup, -20°C, 90 Minutes*  *120-277V Models Only. *Wall Mount EH Only.

### MOUNTING OPTIONS



**KH15Q with Kitty Hawk Arm (KA)**

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



**KH15Q with Pole Mounting Arm Adaptor (MA)**

Die-Cast Adaptor for 2 3/4" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.



**KH15Q with Yoke (Y)**

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



**KH15Q with "SF" External Mount Slipfitter (SF)**

External Mount Die-Cast Adjustable Slipfitter for 2 3/4" Tenons, Bronze Powdercoat Finish, Includes Hardware.



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

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



**KH15Q with Easy-Hang Bracket (EH)**

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



**KH15Q with EH AND BU4, BU4C Battery Backup Option**

Only Version Offered with Battery Backup.



**KH15Q with Knuckle (K)**

Die-Cast Adjustable Knuckle with 1/2" NPS Threads, Bronze Powdercoat Finish.

### ACCESSORIES & REPLACEMENT PARTS



#### Round Pole & Wall Adaptors for KA Arm



**KH20RPZ**

Die-Cast Adaptor for 3" to 4" Round Poles, Bronze Powdercoat Finish.



**KH20WMZ**

Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish.

#### Pole Tenon Spoke Brackets



**PTSB1SZ**



**PTSB290SZ**



**PTSB2180SZ**



**PTSB390SZ\***



**PTSB3120SZ\***



**PTSB490SZ\***

2 3/4" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware. Mounts to 2 3/4" Vertical Pole Top Tenons. \*Non-stock item. Consult factory for lead time

#### 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.
ACCHSG4*	Empty Die Cast Accessory Housing, Powdercoat Finish

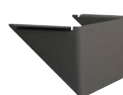
\*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)



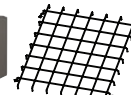
**ACCHSG1Z**



**ACCHSG4**



**KH15GSZ**



**KH15WG**

#### Replacement Parts (Order Separately, Field Installed)

KH15GL	Tempered Clear Flat Glass Lens.
KH15GLSS	SoftLED Flat Glass Lens
KH25AZ	Kitty Hawk Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.
ALMAAZ	Die-Cast Adaptor for 2 3/4" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
KH15YZ	Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.
FL73SFZX	External Mount Die-Cast Adjustable Slipfitter for 2 3/4" 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.
FLSTZ	Die-Cast Adjustable Knuckle with 1/2" NPS Threads, Bronze Powdercoat Finish.
P18103	120-277VAC Photocell
P18110	110-130V 120VAC Pencil Photocell
P18112	208-277V 240VAC Pencil Photocell
P18114	120-277V, 50/60Hz Pencil Photocell

For Replacement Battery Backup, see the LEPL LED Battery Backup Specification Sheet.



**P18103**

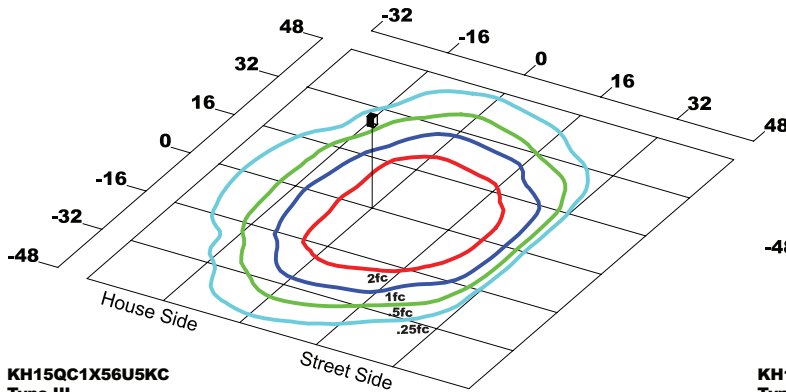


**P18110 & P18112**

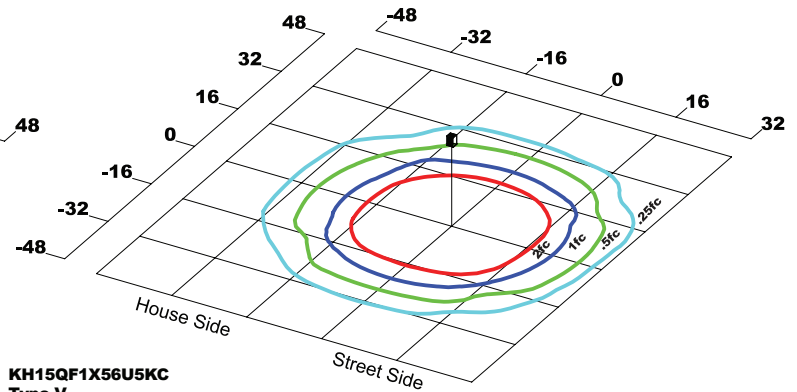


**P18114**

### PHOTOMETRIC DATA



**KH15QC1X56U5KC**  
**Type III**  
Grid in MH  
MH=16 Feet



**KH15QF1X56U5KC**  
**Type V**  
Grid in MH  
MH=16 Feet

### PHOTOMETRIC PERFORMANCE

PHOTOMETRIC PERFORMANCE					5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
LED Board Watts	Drive Current (mA)	Input Watts		Optics	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
EasyLED 22w	525	25	C	Type III	2,875	116	1	0	1	2,767	112	1	0	1	2,659	107	1	0	1
			F	Type V	2,742	111	1	0	0	2,639	106	1	0	0	2,536	102	1	0	0
			I	Narrow Beam	2,682	112	1	0	0	-	-	-	-	-	-	-	-	-	
EasyLED 37w		41	C	Type III	4,834	118	1	0	1	4,653	114	1	0	1	-	-	-	-	-
			F	Type V	4,611	113	2	0	0	4,439	109	2	0	0	4,266	104	2	0	0
			I	Narrow Beam	4,647	114	3	3	0	-	-	-	-	-	-	-	-	-	
Optimized EasyLED 56w	525	62	C	Type III	7,469	121	2	0	2	7,189	117	2	0	2	-	-	-	-	-
			F	Type V	7,125	116	3	0	0	6,858	111	2	0	0	-	-	-	-	-

### EPA (EFFECTIVE PROJECTED AREA)

Shown with Small Kitty Hawk Arm mounting.

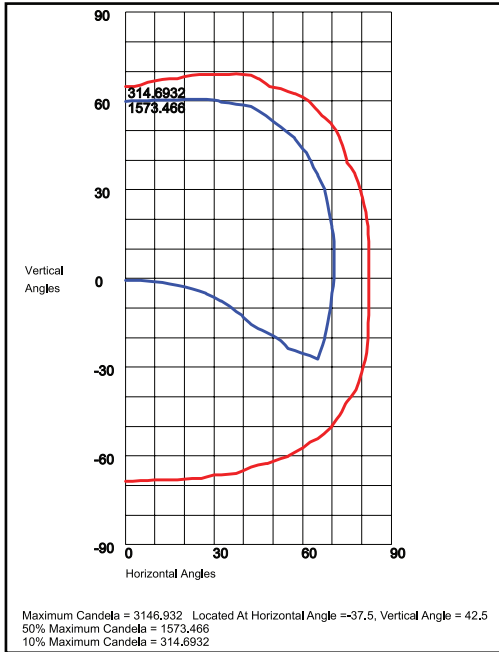
Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	0.35	11 Lbs

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

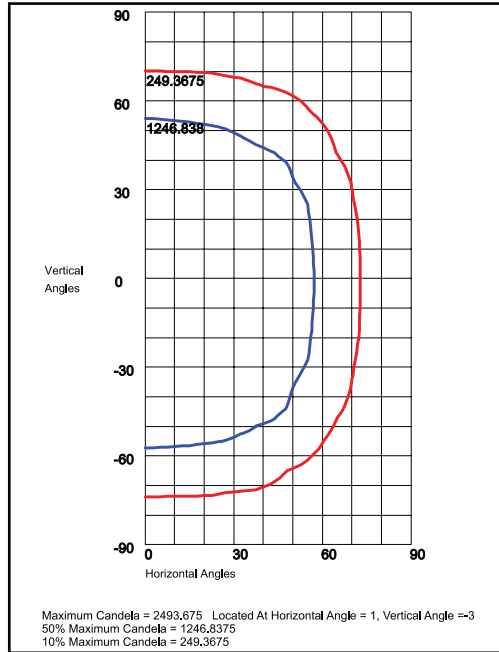
Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
3@90° Mount	0.77	33 Lbs
3@120° Mount	0.70	33 Lbs

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

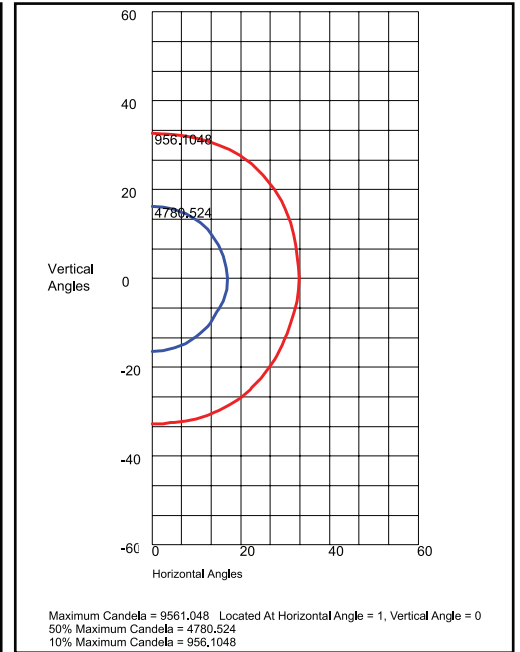
### PHOTOMETRIC DATA



**KH15QC1X56U5KC**  
120°H x 70°V, NEMA 7H x 7V



**KH15QF1X56U5KC**  
115°H x 110°V, NEMA 7H x 7V



**KH15QI1X37U5KC**  
30°H x 30°V, NEMA 4H x 4V

### PHOTOMETRIC PERFORMANCE

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI		4000 CCT 80 CRI		3000 CCT 80 CRI	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
EasyLED 22w	525	25	C 120°H x 70°V, NEMA 7H x 7V	2,854	115	2,747	111	2,640	106
			F 115°H x 110°V, NEMA 7H x 7V	2,749	111	2,646	107	2,543	103
			I 30°H x 30°V, NEMA 4H x 4V	2,723	110	-	-	-	-
EasyLED 37w	525	41	C 120°H x 70°V, NEMA 7H x 7V	4,800	117	4,620	113	-	-
			F 115°H x 110°V, NEMA 7H x 7V	4,623	113	4,450	109	-	-
			I 30°H x 30°V, NEMA 4H x 4V	4,581	112	-	-	4,237	104
Optimized EasyLED 56w	525	62	C 120°H x 70°V, NEMA 7H x 7V	7,416	120	7,138	116	-	-
			F 115°H x 110°V, NEMA 7H x 7V	7,143	116	6,875	111	-	-

### PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT			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 41w	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:

- 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.