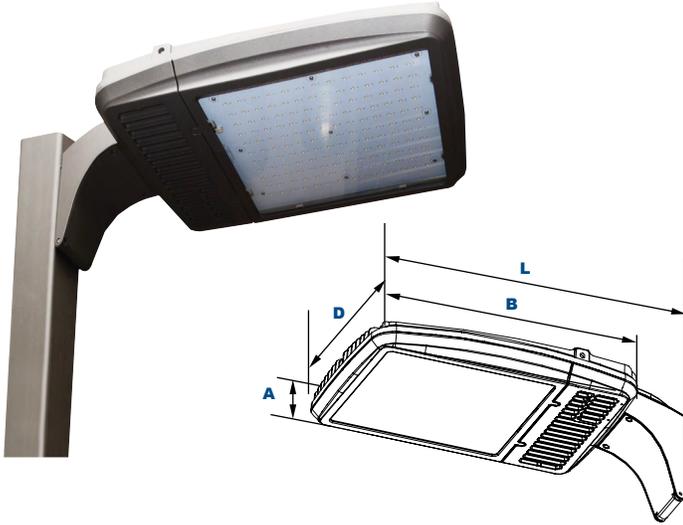


KH45Q

L70
25°C

290,000 Hours

EasyLED Large Bentley Kitty Hawk Area Light



Dimensions

Width (D)	15 1/4" (400mm)
Length (B)	22" (559mm)
Height (A)	4" (102mm)

Length with Mount (L)

Kitty Hawk Arm (KA): 27 1/2" (699mm)
Slipfitter (SF): 29 1/4" (743mm)
Mounting Arm Adaptor (MA): 26 1/4" (664mm)
Yoke (Y): 26 1/4" (667mm)
Bracket (BR): 25 3/4" (654mm)

The KH45Q luminaire is available in two wattages with a wide choice of mounting configurations and optical distributions designed to replace HID lighting systems from 250w to 1000w MH or HPS. Typical area lighting applications include retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 16 to 35 feet can be used based on light level and uniformity requirements.

Specifications and Features:

Housing:

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

Finish:

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

Lens:

Clear Flat Glass Lens or Clear Flat Prismatic Glass Lens

Mounting Options:

Mounts with Kitty Hawk Arm, Adjustable Slipfitter, 2 1/2" Diameter Mounting Arm Adaptor, Yoke, or Two-Piece Bracket. (Factory Installed)

EasyLED LED:

Aluminum Boards

Wattage:

167w: Array: 167.3w, System Input: 177w
 (250-400w HID Equivalent)
 256w: Array: 255.7w, System Input: 281w
 (400-1000w HID Equivalent)

Driver:

Electronic Driver, 120-277V, 50/60Hz or 347/480V, 50/60Hz; Dimmable Driver

Listing & Ratings:

CSA: Listed for Wet Locations.
 Operating Temperatures: -40°C to +50°C
 IP67 sealed LED compartment.

LM-79 Report Available on Select Models.

See Page 3 for Projected Lumen Maintenance Table

5-Year Warranty

Order Information Example:

KH45QF1X256U5KCZKASP

Model	Optics	Wattage	Driver	CCT	Lens	Color	Mounting	Options
KH45Q Large Bentley Kitty Hawk	A =Type I B =Type II C =Type III F =Type V	1X167 =167w 1X256 =256w	U =120-277V H =347/480V	4K =4000K 5K =5000K	C =Clear Flat Glass Lens P =Clear Flat Prismatic Glass Lens* *Use with Type V Optic Only.	Z =Bronze C =Custom (Consult Factory)	KA =Kitty Hawk Arm SF = Slipfitter MA = Mounting Arm Adaptor Y =Yoke BR =Two-Piece Swivel Bracket NM =No Mount	SF =Single Fuse DF =Double Fuse SP =Surge Protection M1 =Motion Sensor, IR for mounting heights of 20ft to 35ft M2 =Motion Sensor, IR for mounting heights of 18ft or less R3 =3-Pin Twist Lock Photocell Receptacle R7 =7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle with P18132 shorting cap

Project Information:

Project Name: _____ Fixture Type: _____

Complete Catalog #: _____ Date: _____

Comments: _____

Certification & Listings:



DesignLights Consortium™
 Qualified Luminaires:
 KH45QC1X167U5KC***
 KH45QF1X167U5KC***
 KH45QC1X256U5KC***
 KH45QF1X256U5KC***



Mounting Options:



KH45Q with Kitty Hawk Arm (KA)

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



KH45Q with Pole Mounting Arm Adaptor (MA)

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



KH45Q with Yoke (Y)

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



KH45Q with "SF" External Mount Slipfitter (SF)

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



KH45Q with Two-Piece Swivel Bracket (BR)

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

EPA (Effective Projected Area)

Shown with Large Kitty Hawk Arm mounting.

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)	Configuration	EPA (Sq. Ft.)	Weight (Lbs.)	Configuration	EPA (Sq. Ft.)	Weight (Lbs.)	Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
1	1.00	33 Lbs	2@180° Mount	2.00	66 Lbs	3@90° Mount	2.20	99 Lbs	4@90° Mount	2.20	132 Lbs
			2@90° Mount	1.36	66 Lbs	3@120° Mount	2.00	99 Lbs			



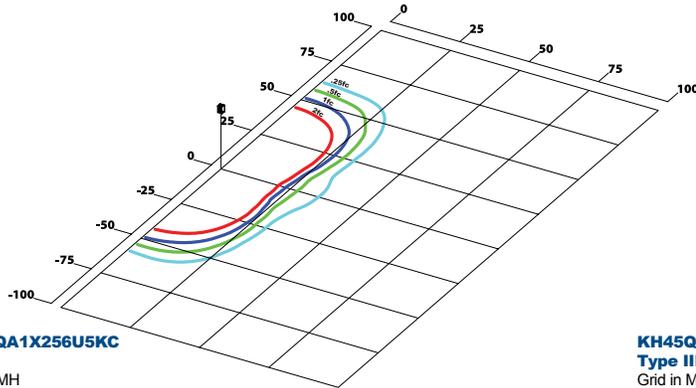
Mounting Accessories (Order separately, Field installed)	
KH40RPZ	Die-Cast Adaptor for 4" to 6" Round Poles, Bronze Powdercoat Finish. Use with Kitty Hawk Mounting Arm only.
KH40WMZ	Die-Cast Wall Mount Adaptor, Bronze Powdercoat Finish. Use with Kitty Hawk Mounting Arm only.
PTSB1SZ	Single Pole Tenon Spoke Bracket, 2 1/2" Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.
PTSB290SZ	Twin Pole Tenon Spoke Bracket, 2 1/2" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB2180SZ	Twin Pole Tenon Spoke Bracket, 2 1/2" Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB390SZ*	Triple Pole Tenon Spoke Bracket, 2 1/2" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB3120SZ*	Triple Pole Tenon Spoke Bracket, 2 1/2" Horizontal 120° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.
PTSB490SZ*	Quad Pole Tenon Spoke Bracket, 2 1/2" Horizontal 90° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

Accessories (Order separately, Field installed)	
P18140	110-120VAC Instant Twist Lock Photocell
P18142	110-277VAC Instant Twist Lock Photocell
P18150	120VAC Time Delay Twist Lock Photocell
P18152	277VAC Time Delay Twist Lock Photocell
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.
ACCHSG1Z	Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish
KH45GSZ	Aluminum House Side Shield, Bronze Powdercoat Finish, Includes Hardware.

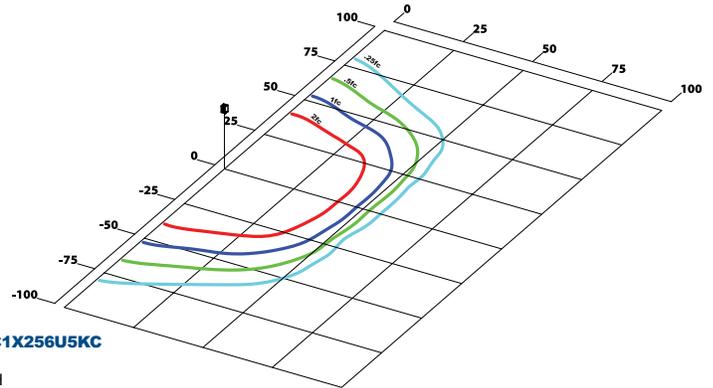
Replacement Parts (Order separately, Field installed)	
KH45GL	Clear Flat Glass Lens
KH45GLP	Prismatic Flat Glass Lens
KH45AZ	Kitty Hawk Mounting Arm, Mounts Directly to Square Poles, Bronze Powdercoat Finish
FL73SFXZ	External Mount Slipfitter, Die Cast, Bronze Powdercoat Finish
ALMAAZ	Pole Mounting Arm Adaptor, Fits 2 1/2" 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

*Special Order Item. Lead Time Three Weeks.

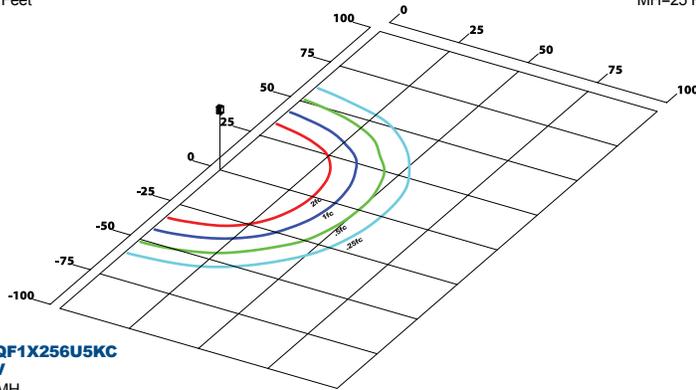
Photometric Data



KH45QA1X256U5KC
Type I
Grid in MH
MH=25 Feet



KH45QC1X256U5KC
Type III
Grid in MH
MH=25 Feet



KH45QF1X256U5KC
Type V
Grid in MH
MH=25 Feet

Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
EasyLED 167w	525	177	Type I	19,217	109	4	3	2	17,584	99	4	3	2
			Type III	17,538	99	3	3	3	16,047	91	3	3	3
			Type V	19,916	113	4	3	3	18,223	103	4	3	3
EasyLED 256w	525	281	Type I	28,826	103	4	3	3	26,376	89	4	3	3
			Type III	27,357	97	3	3	3	25,032	100	3	3	3
			Type V	30,745	109	5	3	2	28,132	82	5	3	2

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 L70@ 25°C	
L70 Lumen Maintenance @ 25°C / 77°F	177	1.00	0.98	0.96	0.92	393,000	
L70 Lumen Maintenance @ 25°C / 77°F	281	1.00	0.97	0.95	0.90	290,000	
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C	
L70 Lumen Maintenance @ 50°C / 122°F	177	1.00	0.96	0.91	0.82	114,000	
L70 Lumen Maintenance @ 50°C / 122°F	281	1.00	0.94	0.88	0.76	84,000	
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C	
L80 Lumen Maintenance @ 40°C / 104°F	177	1.00	0.97	0.94	0.89	180,000	
L80 Lumen Maintenance @ 40°C / 104°F	281	1.00	0.95	0.91	0.81	108,000	

NOTES:

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA 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.