KH15Q DuraLED Mini Hampton Kitty Hawk Area, Wall, and Flood Light

DuraGuard PRODUCTS INC. A QSSI Company

Project Information

Project Name: _____

Fixture Type: _____

Complete Catalog #: _____

Date: _____

Comments: _____

The DuraGuard 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.

L70 25°C **320,000 Hours**

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

DuraLED:
Aluminum Boards

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 DuraGuard 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 4 for Projected Lumen Maintenance Table.

Shown with "KH25A" Kitty Hawk Arm Mounting Option.

BUY AMERICAN ACT COMPLIANT

Shown with "KHEH" Easy-Hang Wall Bracket

Shown with "SSF" Slipfitter Option.

Shown with Battery Backup Option

Dimensions

Width (D)	9½″ (240mm)
Length (B)	11¾″ (299mm)
Height (A)	3⅝″ (92mm)
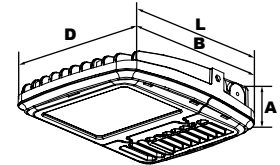
Length with Mount (L)

Kitty Hawk Arm (KH25A): 16″ (406mm)
Slipfitter (SSF): 15½″ (394mm)
Mounting Arm Adaptor (ALMAA): 16″ (406mm)
Yoke (KH15Y): 14¾″ (375mm)
Bracket (SSB): 15½″ (394mm)
Easy-Hang Wall Bracket (KHEH): 12¾″ (324mm)
Knuckle (KN): 17¾″ (450mm)

DuraLED TECHNOLOGY

Complete Units
Ordering Information
Example: KH15QF1X37U5KCZKH25ASP

KH15Q DuraLED Mini Hampton Kitty Hawk Area, Wall, and Flood Light

KH15Q

Model	Optics/Beams	Wattage	Driver	CCT	Lens	Color	Mounting	Options
KH15Q= DuraLED Mini Hampton Kitty Hawk Area, Wall, and Flood Light		**1X22**=22w **1X37**=37w	**U**=120-277V **C**=347V*			**Z**=Bronze **C**=Custom (Consult Factory)		
		OPTIMIZED 1X56=56w	*37w Model Only.				**KH25A**=Kitty Hawk Arm **SSF**= Slipfitter **ALMAA**= Mounting Arm Adapter **KH15Y**=Yoke **SSB**=Two-Piece Swivel Bracket **KHEH**=Easy-Hang Wall Bracket **KN**=½″ NPS Knuckle **NM**=No Mount	
					C=Standard Clear Flat Glass Lens **S**=SoftLED Flat Glass Lens* *Type V Models Only			
	C=Type III/ NEMA 7H x 7V **F**=Type V/ NEMA 7H x 7V **I**=Narrow Beam/ NEMA 4H x 4V*			**3K**=3000K* **4K**=4000K♦ **5K**=5000K				**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 **PC3**=Photocell, 120-277VAC **P10**=Pencil Photocell, 120VAC **P12**=Pencil Photocell, 277VAC **P14**=Pencil Photocell, 120-277VAC **BU4**=Battery Backup, 90 Minutes* **BUC4**=Cold Start Battery Backup, -20°C, 90 Minutes*
	*22 & 37w, 5K Models Only. See Page 3 for Distribution Information.			*37w F Optic or 22w C & F Optic Models Only. ♦22 & 37w, C & F Optic Only.				*120-277V Models Only.

DLC LISTED

DesignLights Consortium™ Qualified Luminaires:
KH15QC1X22U5KC*
KH15QC1X37U5KC*
KH15QF1X22U5KC*
KH15QF1X37U5KC*

CSA C us

IP66

SoftLED

Specifications subject to change without notice.

KH15Q DuraLED Mini Hampton Kitty Hawk Area, Wall, and Flood Light

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ADDITIONAL MOUNTING OPTIONS

KH15Q Shown with "KH25A" Kitty Hawk Mounting Arm,
Kitty Hawk Die-Cast Mounting Arm, Bronze Powdercoat Finish, Includes Hardware. Mounts Directly to Square Poles.

KH15Q Shown with "ALMAA" Pole Mounting Arm Adaptor,
Die-Cast Adaptor for 2⅜″ Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

KH15Q Shown with "KH15Y" Yoke,
Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.

KH15Q Shown with "SSF" External Mount Slipfitter,
External Mount Die-Cast Adjustable Slipfitter for 2⅜″ Tenons, Bronze Powdercoat Finish, Includes Hardware.

KH15Q Shown with "SSB" Two-Piece Swivel Bracket,
Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.

KH15Q Shown with "KHEH" Easy-Hang Wall Bracket,
Die-Cast Easy-Hang Wall Bracket, Bronze Powdercoat Finish, Includes Hardware.

KH15Q Shown with "KN" Knuckle,
Die-Cast Adjustable Knuckle with ½″ NPS Threads, Bronze Powdercoat Finish.

EPA (EFFECTIVE PROJECTED AREA) SHOWN WITH SLIPFITTER 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

ACCESSORIES & REPLACEMENT PARTS:

KH20RPZ KH20WMZ PTSB1SZ
PTSB290SZ PTSB2180SZ PTSB390SZ*
PTSB3120SZ* PTSB490SZ* ACCHSG1Z
KH15GSZ KH15WG ACCHSG4
P18103 P18110 & P18112 P18114

Mounting Accessories (Order Separately, Field Installed)

KH20RPZ	Die-Cast Adaptor for 3″ to 4″ Round Poles, Bronze Powdercoat Finish. Use with KH25A Kitty Hawk Mounting Arm only.
KH20WMZ	Die-Cast Wall Mount Adaptor, Bronze Powdercoat 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.

Accessories (Order Separately, Field Installed)

ACCHSG1Z	Die Cast Accessory Housing for Installing Sensors or Other Lighting Control, 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)

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.
SSFZ	External Mount Die-Cast Adjustable Slipfitter for 2⅜″ Tenons, Bronze Powdercoat Finish, Includes Hardware.
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.
SSBZ	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 ½″ 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 DuraGuard LED Battery Backup Specification Sheet.

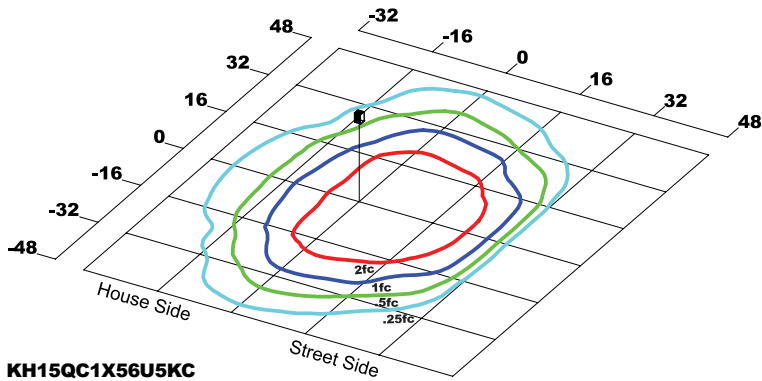Specifications subject to change without notice.

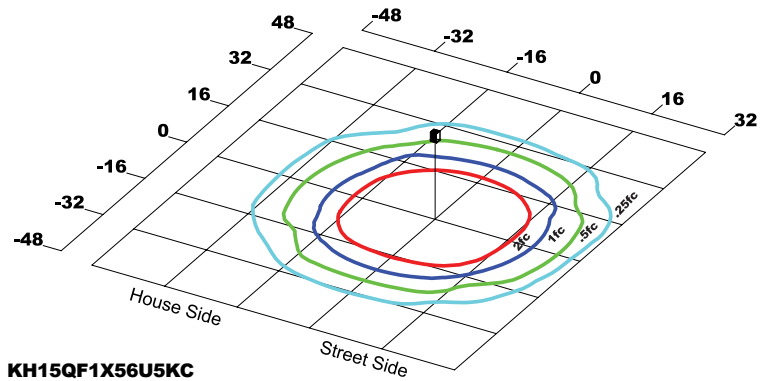# KH15Q DuraLED Mini Hampton Kitty Hawk Area, Wall, and Flood Light

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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	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
DuraLED 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	-	-	-	-	-	-	-	-	-	-
DuraLED 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 DuraLED 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	-	-	-	-	-

PHOTOMETRIC DATA

KH15QC1X56U5KC
Type III
Grid in MH
MH=16 Feet

KH15QF1X56U5KC
Type V
Grid in MH
MH=16 Feet

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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
DuraLED 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	-	-	-	-
DuraLED 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 x7V	4,623	113	4,450	109	-	-
			I	30°H x 30°V, NEMA 4H x 4V	4,581	112	-	-	4,237	104
Optimized DuraLED 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 x7V	7,143	116	6,875	111	-	-

PROJECTED LUMEN MAINTENANCE

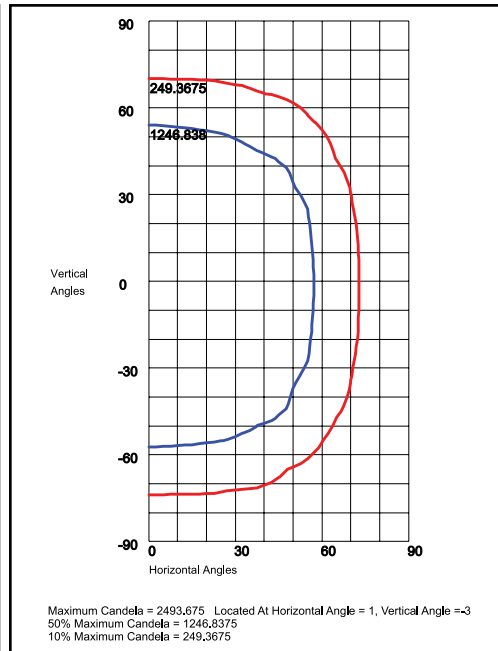| Data shown for 5000 CCT			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 62w	1.00	0.98	0.95	0.91	320,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.95	0.89	0.79	141,000
L80 Lumen 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 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.
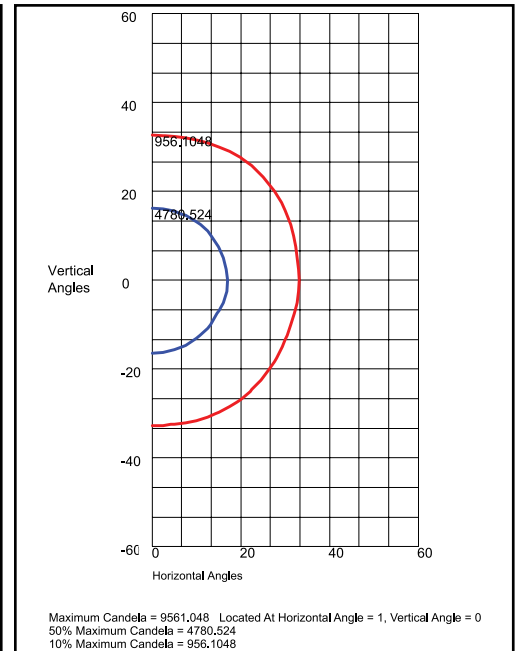
PHOTOMETRIC DATA

Maximum Candela = 3146.932 Located At Horizontal Angle =-37.5, Vertical Angle = 42.5
50% Maximum Candela = 1573.466
10% Maximum Candela = 314.6932
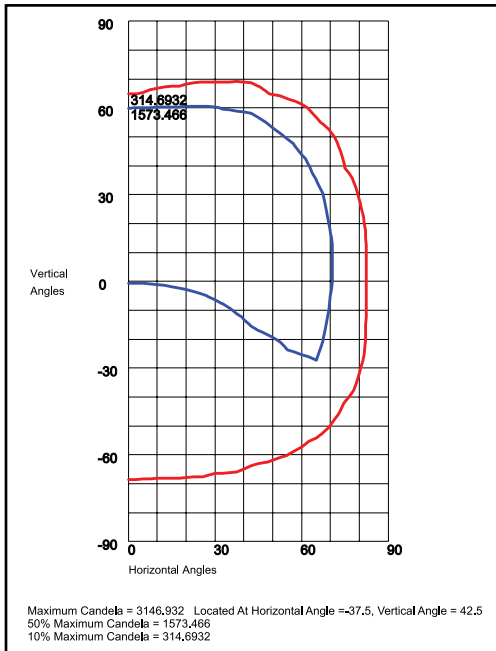
KH15QC1X56U5KC
120°H x 70°V, NEMA 7H x 7V

Maximum Candela = 2493.675   Located At Horizontal Angle = 1, Vertical Angle =-3
50% Maximum Candela = 1246.8375
10% Maximum Candela = 249.3675

KH15QF1X56U5KC
115°H x 110°V, NEMA 7H x7V

Maximum Candela = 9561.048   Located At Horizontal Angle = 1, Vertical Angle = 0
50% Maximum Candela = 4780.524
10% Maximum Candela = 956.1048

KH15QI1X37U5KC
30°H x 30°V, NEMA 4H x4V

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