

NHL-KH15

Mini Kitty Hawk Area, Wall and Flood Light



Shown with "AM" Kitty Hawk Arm Mounting Option.



Shown with "WM" Wall Mount Bracket



Shown with Battery Backup Option

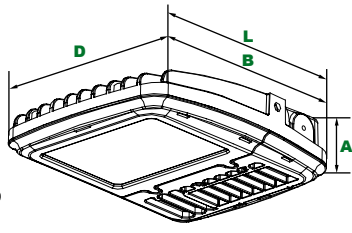


Shown with "SF" Slipfitter Option.

Dimensions

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

Length with Mount (L)	Kitty Hawk Arm (Arm): 16" (406mm)
	Slipfitter (SF): 15½" (394mm)
	Mounting Arm Adaptor (AM): 16" (406mm)
	Yoke (Y): 14¾" (375mm)
	Bracket (BR): 15½" (394mm)
	Wall Mount Bracket (WM): 12¾" (324mm)
	Knuckle (K): 17¾" (450mm)



NHL-KH15 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.

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 Adjustable Knuckle, Kitty Hawk Arm, Adjustable Slipfitter, 2¾" Diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (Factory Installed).

LED Array:

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 LEPC 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.

Project Information:

Project Name:	Fixture Type:
Complete Catalog #:	Date:
Comments:	

Certification & Listings:



Order Information Example:		NHL-KH15-C-37W-40K-UNV-C-Z-WM						
Model	Optics/Beam	Wattage	CCT	Driver	Lens	Color	Mounting	Options
NHL-KH15 Mini Kitty Hawk Area, Wall, and Flood Light	C =Type III/ NEMA 7H x 7V F =Type V/ NEMA 7H x 7V I =Narrow Beam/ NEMA 4H x 4V* *22 & 37w, 5K Model Only. See Page 3 & 4 for Distribution Information.	22W =22w 37W =37w OPTIMIZED 56=56w	30K =3000K* 40K =4000K* 50K =5000K *37w F Optic or 22w C & F Optic Models Only. ♦C & F Optic Only.	UNV =120-277V *37w Model Only.	C =Standard Clear Flat Glass Lens S =Flat Glass Lens* *Type V Optic Only.	Z =Bronze CC =Custom (Consult Factory)	AM =Kitty Hawk Arm SF = Slipfitter MA = Mounting Arm Adapter YM =Yoke TM =Two-Piece Swivel Bracket WM =Easy-Hang Wall Bracket KM =½" NPS Knuckle 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 PC3 =Photocell, 120-277VAC P10 =Pencil Photocell, 120VAC P12 =Pencil Photocell, 277VAC P14 =Pencil Photocell, 120-277VAC BU4 =Battery Backup, 90 Minutes* BCU4 =Cold Start Battery Backup, -20°C, 90 Minutes* *120-277V Models Only.

Mounting Options:



NHL-KH15 with Kitty Hawk Arm (AM)

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



NHL-KH15 with Pole Mounting Arm Adaptor (MA)

Die-Cast Adaptor for 2½" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.



NHL-KH15 with Yoke (YM)

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



NHL-KH15 with "SF" External Mount Slipfitter (SF)

External Mount Die-Cast Adjustable Slipfitter for 2½" Tenons, Bronze Powdercoat Finish, Includes Hardware.



NHL-KH15 with Two-Piece Swivel Bracket (TM)

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



NHL-KH15 with Wall Mount Bracket (WM)

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









NHL-KH15 with Knuckle (KM)

Die-Cast Adjustable Knuckle with ½" NPS Threads, Bronze Powdercoat Finish.

EPA (Effective Projected Area)

Shown with Small 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	0.35	11 Lbs	 2@180° Mount	0.70	22 Lbs	 3@90° Mount	0.77	33 Lbs	 4@90° Mount	0.77	44 Lbs
			 2@90° Mount	0.48	22 Lbs	 3@120° Mount	0.70	33 Lbs			

Accessories & Replacement Parts:



Round Pole & Wall Adaptors for AM 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 3/8" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware. Mounts to 2 3/8" 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

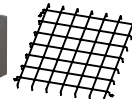
*Specify Color: Z=Bronze, B=Black, C=Custom (Consult Factory)



ACCHSG1Z



KH15GSZ



KH15WG



ACCHSG4

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 3/8" Horizontal Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

KH15YZ Stamped Heavy-Duty Steel Yoke, Bronze Powdercoat Finish, Includes Hardware.

SF External Mount Die-Cast Adjustable Slipfitter for 2 3/8" Tenons, Bronze Powdercoat Finish, Includes Hardware.

FL73BRZ Two-Piece Stamped Steel Adjustable Bracket, Bronze Powdercoat Finish, Includes Hardware.

KHWM 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 LEPG LED Battery Backup Specification Sheet.



P18103



**P18110 &
P18112**



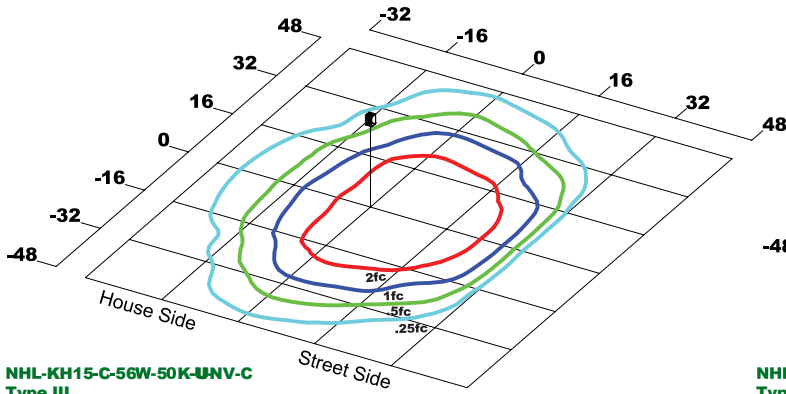
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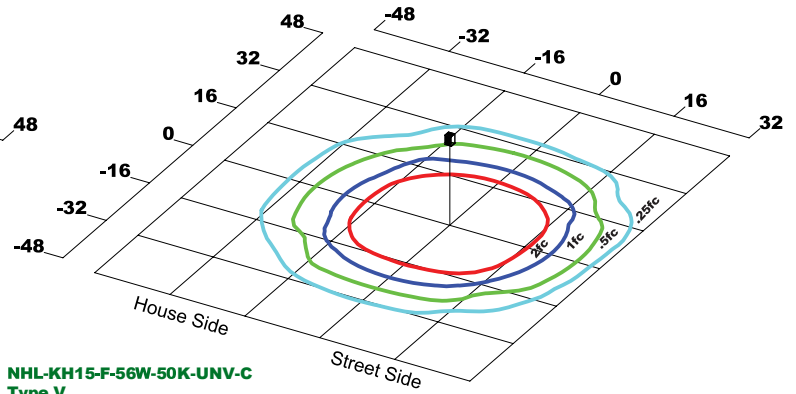
NHL-KH15 L70 25°C 320,000 Hours

Mini Kitty Hawk Area, Wall and Flood Light

Photometric Data



NHL-KH15-C-56W-50K-UNV-C
Type III
 Grid in MH
 MH=16 Feet



NHL-KH15-F-56W-50K-UNV-C
Type V
 Grid in MH
 MH=16 Feet

Photometric Performance

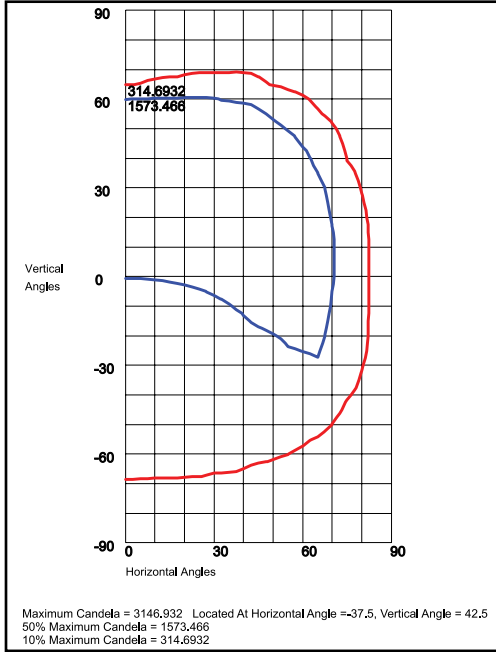
LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI					
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	
LED 22w	525	25	C	Type III	2,875	116	1	0	1	2,767	112	1	0	1	2,659	107	1	0	1
			F	Type V	2,742	111	1	0	0	2,639	106	1	0	0	2,536	102	1	0	0
			I	Narrow Beam	2,682	112	1	0	0	-	-	-	-	-	-	-	-	-	-
LED 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 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	-	-	-	-	-

Specifications subject to change without notice. Rev. 042721

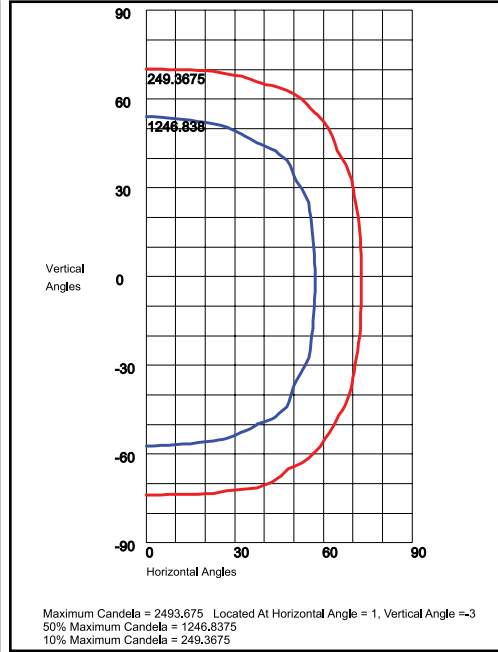


Mini Kitty Hawk Area, Wall and Flood Light

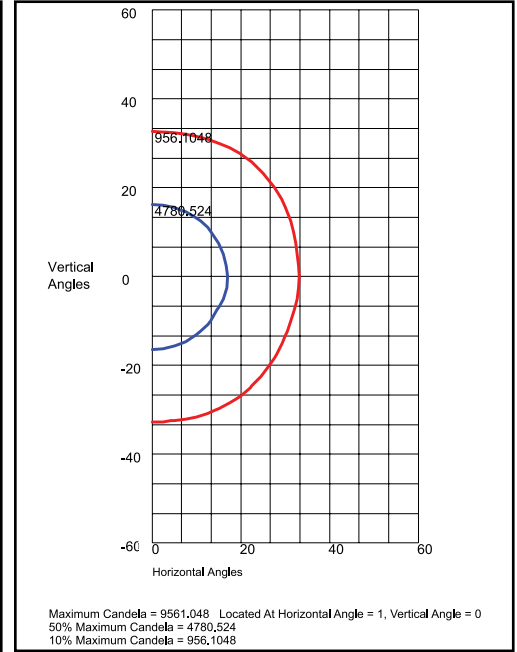
Photometric Data



NHL-KH15-C-56W-50K-UNV-C
 120°H x 70°V, NEMA 7H x 7V



NHL-KH15-F56W-50K-UNV-C
 115°H x 110°V, NEMA 7H x 7V



NHL-KH15-I-56W-50K-UNV-C
 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
LED 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	-	-	-	-
LED 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 LED 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:
 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.