

NHL-KH25

Small Kitty Hawk Area, Wall, and Flood Light



Shown with "AM" Kitty Hawk Arm Mounting Option.



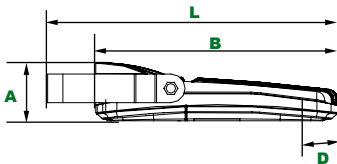
Shown with "WM" Wall Mount Bracket



Shown with "SF" Slipfitter Option.

Dimensions

Width (D)	13 3/8" (340mm)
Length (B)	15" (381mm)
Height (A)	3 3/8" (92mm)



Length with Mount (L)	Kitty Hawk Arm (Arm): 19 1/4" (491mm)
	Slipfitter (SF): 18 3/4" (476mm)
	Mounting Arm Adaptor (AM): 19 1/2" (486mm)
	Yoke (Y): 18" (457mm)
	Bracket (BR): 18 3/4" (476mm)
	Wall Mount Bracket (WM): 16" (406mm)

The NHL-KH25 luminaire is available in three wattages with a wide choice of mounting configurations and optical distributions designed to replace HID lighting systems from 150w to 400w 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 14 to 25 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 Kitty Hawk Arm, Adjustable Slipfitter, 2 3/8" Diameter Mounting Arm Adaptor, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (Factory Installed).

LED Array:

Aluminum Boards

Driver:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz (81w Model Only); 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 LEPC Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

Warranty:

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

See Page 7 for Projected Lumen Maintenance Table.

Project Information:

Project Name: _____ Fixture Type: _____

Complete Catalog #: _____ Date: _____

Comments: _____

Certification & Listings:



Specifications subject to change without notice. Rev. 061520

Small Kitty Hawk Area, Wall, and Flood Light

Order Information Example:		NHL-KH25-F-112W-50K-U-C-Z-AM-SP						
NHL-KH25								
Model	Optics/Beam	Wattage	CCT	Driver	Lens	Color	Mounting	Options
NHL-KH25=Small Kitty Hawk Area, Wall, and Flood Light	A =Type I/NEMA 7H x 5V B =Type II/NEMA 7H x 6V C =Type III/NEMA 7H x 7V D =Type IV/NEMA 6H x 5V F =Type V/NEMA 7H x 7V I =Narrow Beam/NEMA 4H x 4V* *Use with 81w & 112w 5K Model Only. See Page 4 & 6 for Distribution Information.	65 =65w* 81 =81w 112 =112w *Use with D Optic 3K Model or C & F Optics 4K & 5K Models	30K =3000K* 40K =4000K 50K =5000K *Use with 65w D Optic; 81w B, C, D, F Optics; or 112w C, D & F Optics	UNV =120-277V H =347-480V* *81w Model Only.	C =Standard Clear Flat Glass Lens S =SoftLED Flat Glass Lens* *Use with Type V Optic Only.	Z =Bronze CC =Custom (Consult Factory)	AM =Kitty Hawk Arm SF = Slipfitter MA = Mounting Arm Adaptor YM =Yoke BR =Two-Piece Swivel Bracket WM = Wall 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 R5 =5-Pin Twist Lock Photocell Receptacle 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 Model Only

Mounting Options:



NHL-KH25 with Kitty Hawk Arm (AM)

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



NHL-KH25 with Pole Mounting Arm Adaptor (AM)

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



NHL-KH25 with Yoke (YM)

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



NHL-KH25 with "SF" External Mount Slipfitter (S)

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



NHL-KH25 with Two-Piece Swivel Bracket (BR)

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






NHL-KH25 with Wall Mount Bracket (WM)



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


EPA (Effective Projected Area)

Shown with Small Kitty Hawk Arm mounting.

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

Specifications subject to change without notice.

**Small Kitty Hawk Area, Wall, and
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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)**

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.

P18140 110-120VAC Instant Twist Lock Photocell

P18150 120VAC Time Delay Twist Lock Photocell

P18152 277VAC Time Delay Twist Lock Photocell

P18156 120-277VAC Universal Twist Lock Photocell

P18157 480VAC Time Delay Twist Lock Photocell. For 480V use only.

ACCHSG1Z Die Cast Accessory Housing for Installing Sensors or Other Lighting Controls, Bronze Powdercoat Finish

KH25GSZ Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware.

KH25WG Wire Guard, Stainless Steel Construction, Includes Hardware.

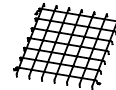
ACCHSG3 Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket.



ACCHSG1Z



KH25GSZ



KH25WG



ACCHSG3

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

KH25GL Tempered Clear Flat Glass Lens.

KH25GLSS 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.

KH25YZ 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.

P17117 Internal Microwave Sensor with Dimming, 120-277VAC, 50/60Hz. See P17117 Specification Page for Details.

P17123 Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz



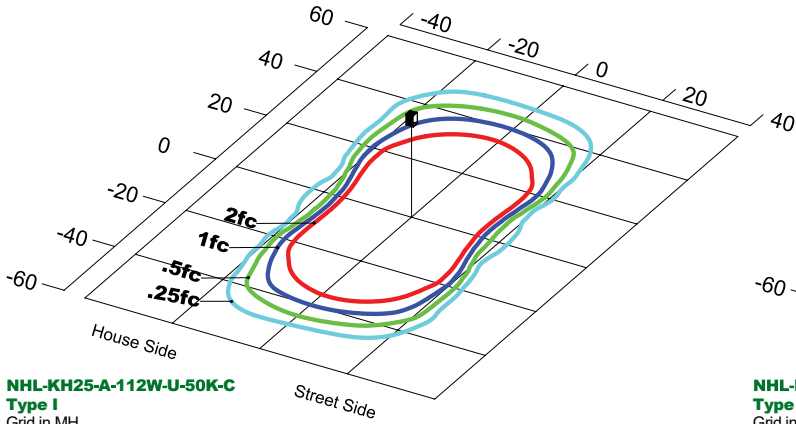
P17117



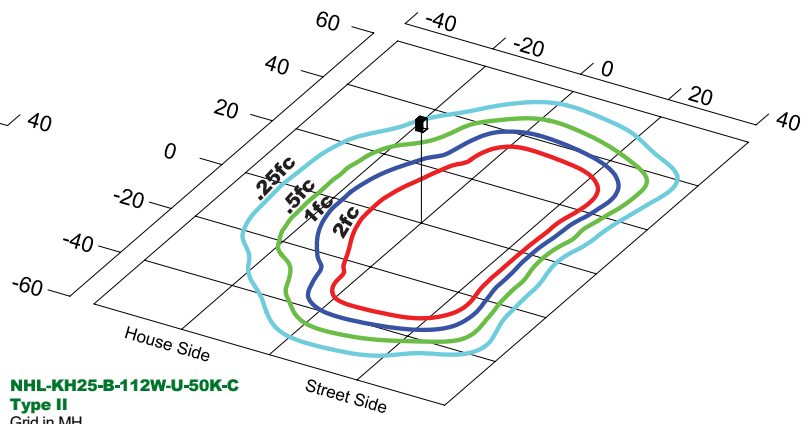
P17123

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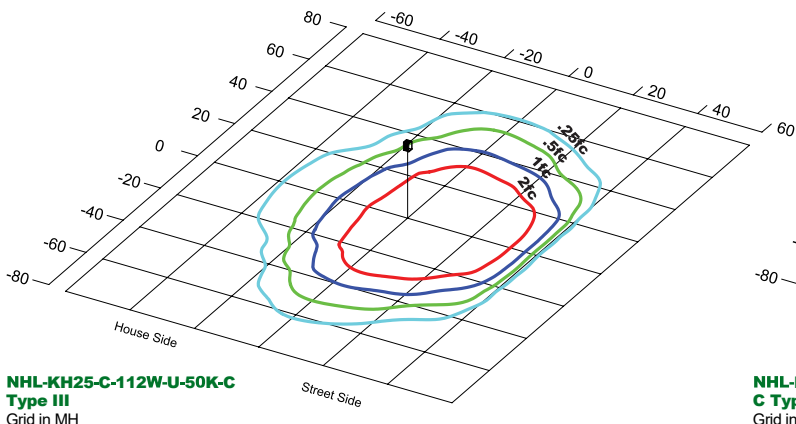
Photometric Data



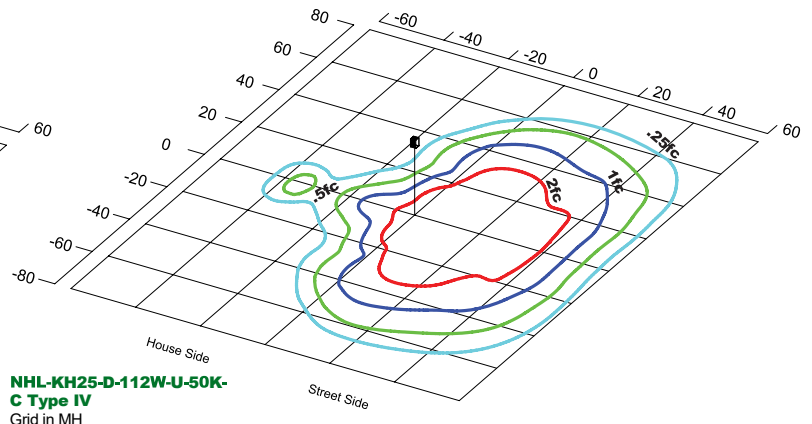
NHL-KH25-A-112W-U-50K-C
Type I
Grid in MH
MH=20 Feet



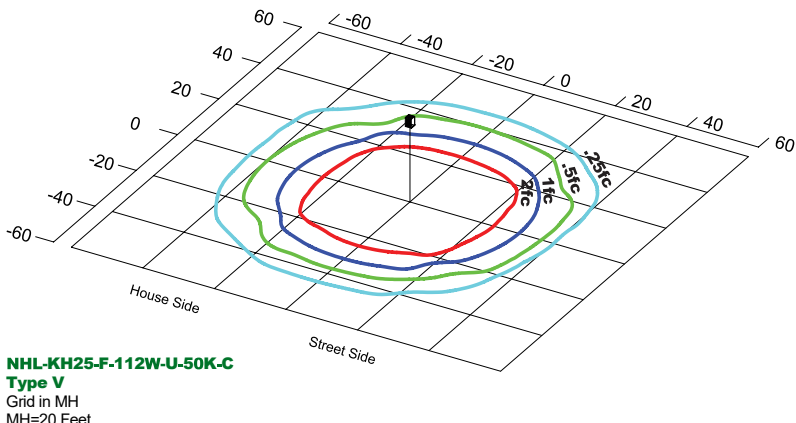
NHL-KH25-B-112W-U-50K-C
Type II
Grid in MH
MH=20 Feet



NHL-KH25-C-112W-U-50K-C
Type III
Grid in MH
MH=20 Feet



NHL-KH25-D-112W-U-50K-C
Type IV
Grid in MH
MH=20 Feet



NHL-KH25-F-112W-U-50K-C
Type V
Grid in MH
MH=20 Feet



NHL-KH25

L70
25°C

320,000 Hours

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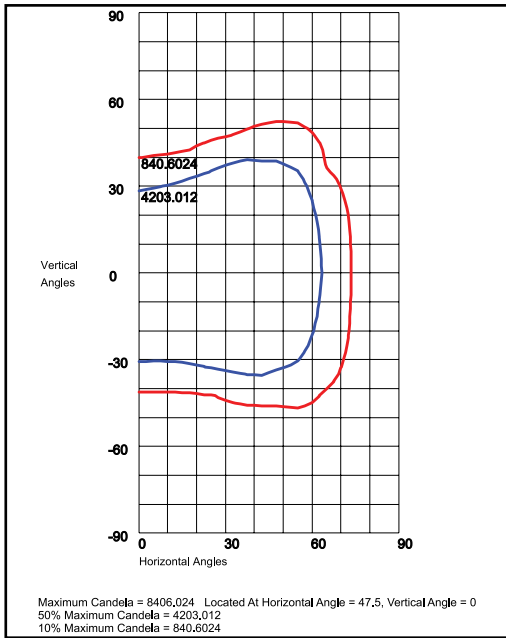
Photometric Performance

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	
LED 65w	525	68	C Type III	7,089	105	2	0	2	6,823	101	2	0	2	-	-	-	-	-	
			D Type VI	-	-	-	-	-	-	-	-	-	-	-	6,158	73	1	0	2
			F Type V	6,762	100	2	0	0	6,508	96	2	0	0	-	-	-	-	-	
LED 81w	525	84	A Type I	10,503	125	3	0	2	10,109	120	3	0	1	-	-	-	-	-	
			B Type II	10,019	119	2	0	2	9,644	115	2	0	2	9,268	110	2	0	2	
			C Type III	11,007	131	2	0	2	10,594	126	2	0	2	10,181	121	2	0	2	
			D Type IV	10,338	123	1	0	2	9,950	118	1	0	2	9,563	114	1	0	2	
			F Type V	10,499	125	3	0	1	10,106	120	3	0	1	9,712	115	3	0	1	
LED 112w	525	121	A Type I	15,214	126	3	0	2	14,644	121	3	0	2	-	-	-	-	-	
			B Type II	14,514	120	2	0	2	13,970	115	2	0	2	-	-	-	-	-	
			C Type III	15,944	132	3	0	3	15,346	127	3	0	3	14,748	122	3	0	3	
			D Type IV	14,039	116	2	0	3	13,513	112	2	0	3	12,986	107	2	0	3	
			F Type V	15,209	126	3	0	1	13,637	113	3	0	1	13,161	109	3	0	1	

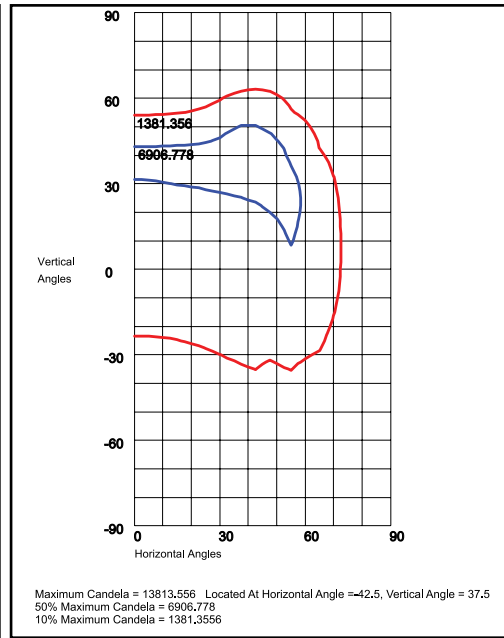
Specifications subject to change without notice.

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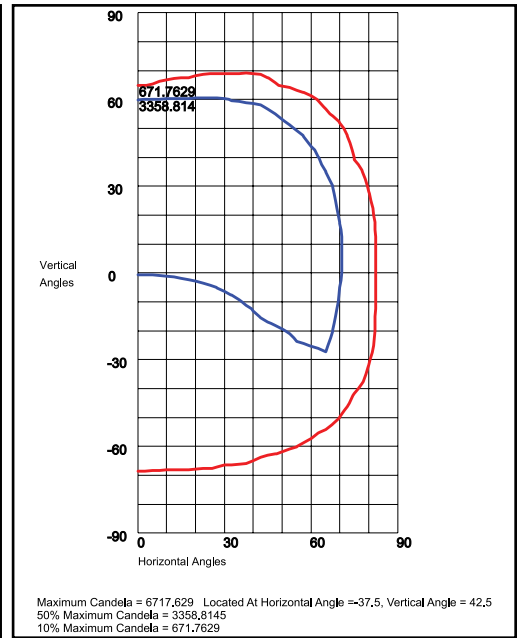
Photometric Data



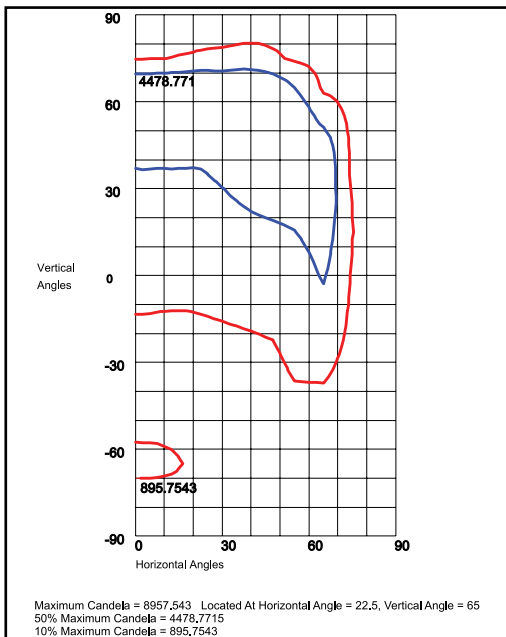
NHL-KH25-A-112W-U-50K-C
130°H x 70°V, NEMA 7H x 5V



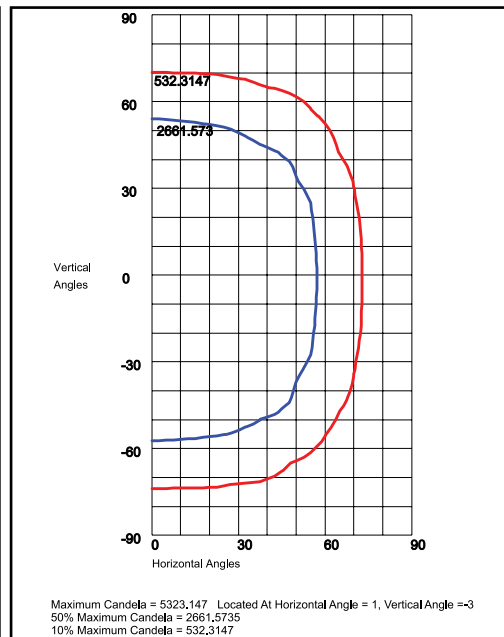
NHL-KH25-B-112W-U-50K-C
110°H x 30°V, NEMA 7H x 6V



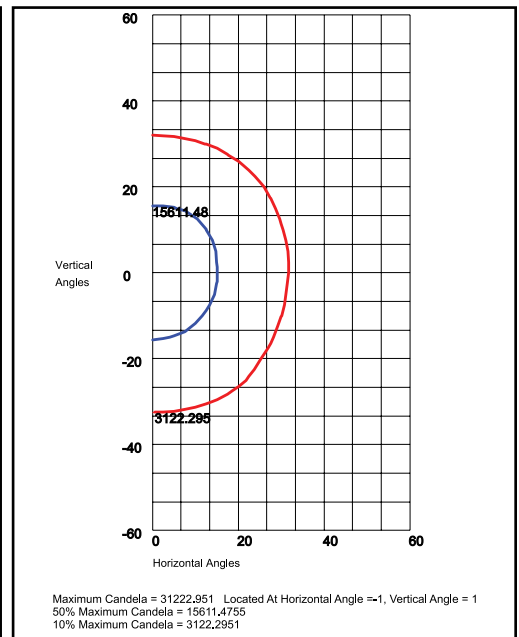
NHL-KH25-C-112W-U-50K-C
120°H x 70°V, NEMA 7H x 7V



NHL-KH25-D-112W-U-50K-C
110°H x 30°V, NEMA 6H x 5V



NHL-KH25-F-112W-U-50K-C
115°H x 110°V, NEMA 7H x 7V



NHL-KH25-I-112W-U-50K-C
30°H x 30°V, NEMA 4H x 4V



Small Kitty Hawk Area, Wall, and Flood Light

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 65w	525	68	C 120°H x 70°V, NEMA 7H x 7V	7,038	104	6,774	100	-	-
			D 110°H x 30°V, NEMA 6H x 5V	-	-	-	-	6,118	90
			F 115°H x 110°V, NEMA 7H x 7V	6,779	100	6,525	97	-	-
LED 81w	525	84	A 130°H x 70°V, NEMA 7H x 5V	10,496	125	10,102	120	-	-
			B 110°H x 30°V, NEMA 7H x 6V	10,033	119	9,657	115	9,280	110
			C 120°H x 70°V, NEMA 7H x 7V	10,928	130	10,518	125	10,108	120
			D 100°H x 30°V, NEMA 6H x 5V	10,271	122	9,886	117	9,501	113
			F 115°H x 110°V, NEMA 7H x 7V	10,526	125	10,131	120	9,737	116
			I 30°H x 30°V, NEMA 4H x 4V	10,181	121	-	-	-	-
LED 112w	525	121	A 130°H x 70°V, NEMA 7H x 5V	15,204	126	14,634	121	-	-
			B 110°H x 30°V, NEMA 7H x 6V	14,533	120	13,988	116	-	-
			C 120°H x 70°V, NEMA 7H x 7V	15,830	131	15,236	126	14,643	121
			D 110°H x 30°V, NEMA 6H x 5V	13,794	114	13,277	110	12,760	105
			F 115°H x 110°V, NEMA 7H x 7V	15,248	126	13,672	113	13,195	109
			I 30°H x 30°V, NEMA 4H x 4V	14,078	116	-	-	-	-

Projected Lumen Maintenance

Data shown for 5000 CCT TM-21-11	Input Watts	Compare to MH				Calculated LED Life
		Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	
L70 Lumen Maintenance @ 25°C / 77°F	All wattages up to and including 121w	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 525mA 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.

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