

NHL-KH55

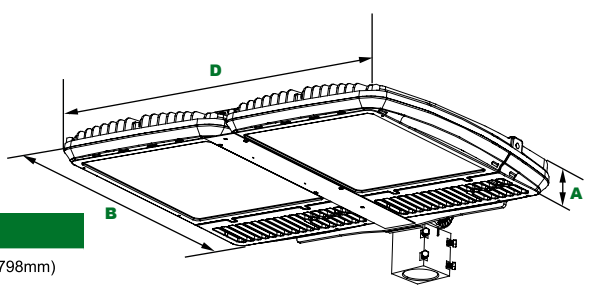
Kitty Hawk PowerBolt Area and Flood Light



Shown with Pole Mounted Slipfitter.



Shown with "SF" Slipfitter Mounting Option.



Dimensions

Width (D)	31½" (798mm)
Length (B)	22" (563mm)
Height (A)	4" (102mm)

Project Information:

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

NHL-KH55 PowerBolt luminaire is available with a wide choice of optical distributions designed to replace HID lighting systems to 1500w MH or HPS. Typical applications include general area, parking, flood, and security lighting for auto dealerships, retail centers, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 20 to 50 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 Tempered Clear Flat Prismatic Glass Lens.

Mounting Options:
Mounts with Adjustable Slipfitter. (Factory Installed)

LED Array:
Aluminum Boards

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

Certification & Listings:



Kitty Hawk PowerBolt Area and Flood Light

Order Information Example:		NHL-KH55-F-256W-50K-U-C-Z-SF-SP						
NHL-KH55		SF						
Model	Optics/Beam	Wattage	CCT	Driver	Lens	Color	Mounting	Options
KH55 = Kitty Hawk PowerBolt Area 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* *334 & 512w, 5K Models Only. See Page 4 & 6 for Distribution Information.	OPTIMIZED 272=272w 167=334w OPTIMIZED 450=450w 256=512w	30K =3000K* 40K =4000K 50K =5000K *334 & 512w, F & C Optics.	UNV =120-277V H =347-480V	C =Standard Clear Flat Glass Lens S =Flat Glass Lens* P =Clear Flat Prismatic Glass Lens* *Type V Optic Only.	Z =Bronze CC =Custom (Consult Factory)	SF =Slipfitter, Included	SF =Single Fuse* DF =Double Fuse* SP =Surge Protection 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 35' or less.* S43 =Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19'.* *120-277V Models Only.

Mounting Options:





NHL-KH55 with "SF" External Mount Slipfitter (SF)

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

EPA (Effective Projected Area)

Shown with Slipfitter mounting.

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
 1	1.20	74 Lbs

Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
 2@180° Mount	2.40	148 Lbs

Note: Values for horizontal mounting.

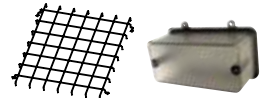
Accessories & Replacement Parts:



PTSB1SZ **PTSB2180SZ**



ACCHSG1Z **KH45GSZ**



KH45WG **ACCHSG3**



P17117 **P17123**

Mounting Accessories (Order Separately, Field Installed)

PTSB1SZ	Single Pole Tenon Spoke Bracket, 2 3/8" Horizontal Mounting Arm, Bronze Powdercoat Finish, Includes Hardware.
PTSB2180SZ	Twin Pole Tenon Spoke Bracket, 2 3/8" Horizontal 180° Mounting Arms, Bronze Powdercoat Finish, Includes Hardware.

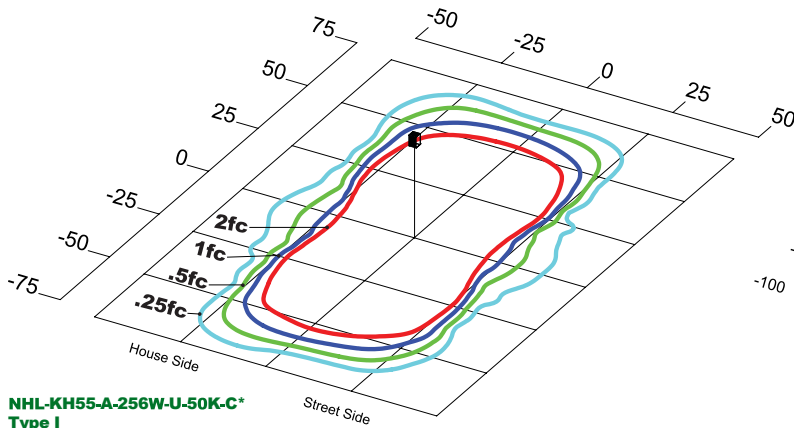
Accessories (Order Separately, Field Installed)

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
KH45GSZ	Aluminum Glare/House Side Shield, Bronze Powdercoat Finish, Includes Hardware. KH45 Twin Requires Two.
KH45WG	Wire Guard, Stainless Steel Construction, Includes Hardware. KH45 Twin Requires Two.
ACCHSG3	Bronze UV-Stabilized Polycarbonate Housing for Installing Sensors, Includes Sensor Bracket and Gasket.

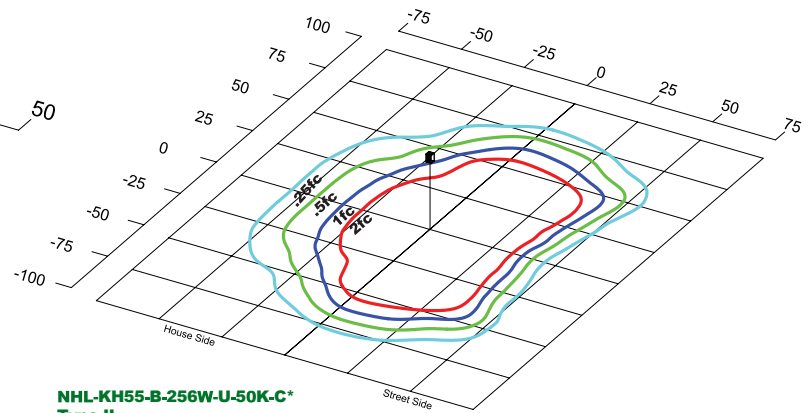
Replacement Parts (Order Separately, Field Installed)

KH45GL	Tempered Clear Flat Glass Lens.
KH45GLSS	SoftLED Flat Glass Lens
KH45GLP	Tempered Prismatic Flat Glass Lens.
SF	External Mount Die-Cast Adjustable Slipfitter for 2 3/8" Tenons, 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

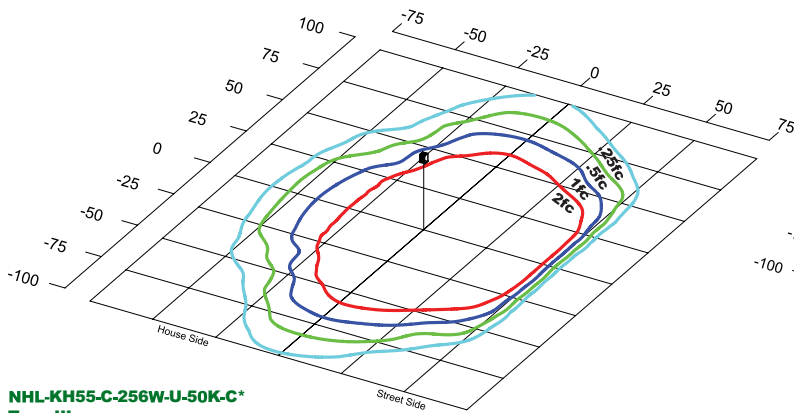
Photometric Data



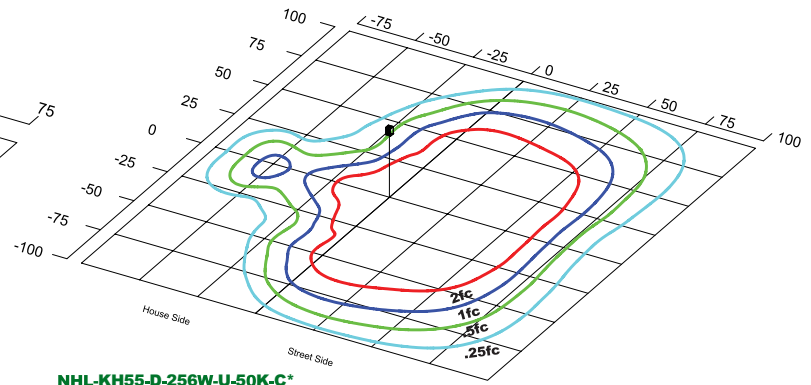
NHL-KH55-A-256W-U-50K-C*
Type I
Grid in MH
MH=25 Feet



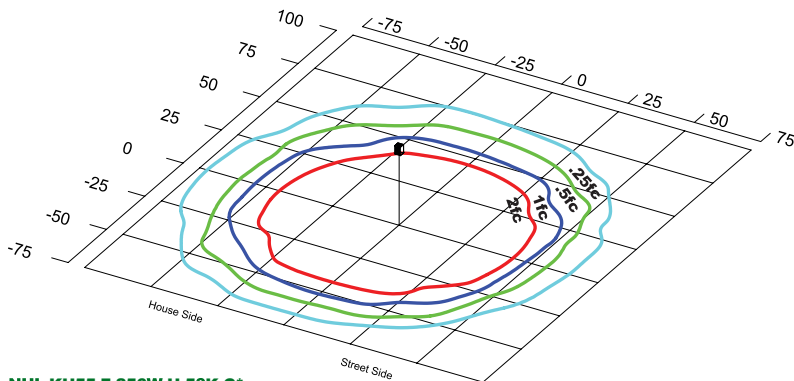
NHL-KH55-B-256W-U-50K-C*
Type II
Grid in MH
MH=25 Feet



NHL-KH55-C-256W-U-50K-C*
Type III
Grid in MH
MH=25 Feet



NHL-KH55-D-256W-U-50K-C*
Type IV
Grid in MH
MH=25 Feet



NHL-KH55-F-256W-U-50K-C*
Type V
Grid in MH
MH=25 Feet



NHL-KH55

L70
25°C

290,000 Hours

Kitty Hawk PowerBolt Area and Flood Light

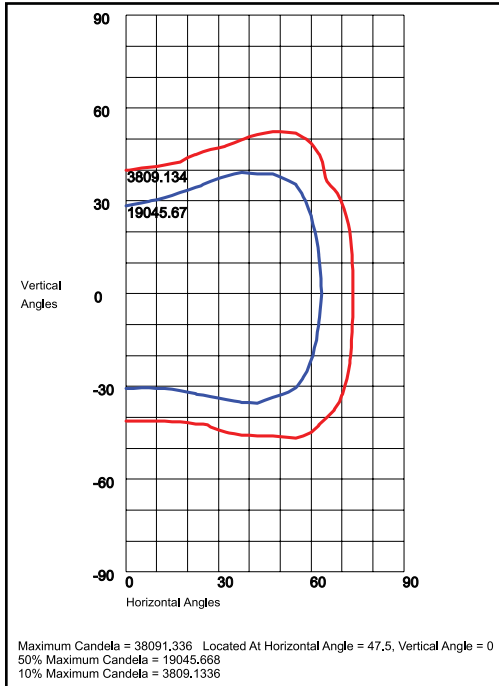
Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Optics	5000 CCT 80 CRI					4000 CCT 80 CRI					3000 CCT 80 CRI				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Optimized 136w	525	297	C Type III	43,981	148	4	0	4	42,331	143	4	0	4	-	-	-	-	-
			D Type IV	44,582	150	4	0	5	42,910	144	4	0	5	-	-	-	-	-
			F Type V	41,952	141	5	0	2	40,379	136	5	0	2	-	-	-	-	-
LED 167w	525	358	A Type I	44,974	126	5	0	3	43,287	121	5	0	3	-	-	-	-	-
			B Type II	42,904	120	4	0	3	41,295	115	4	0	3	-	-	-	-	-
			C Type III	47,132	132	4	0	4	45,364	127	4	0	4	43,597	122	4	0	4
			D Type IV	47,776	134	4	0	5	45,984	129	4	0	5	-	-	-	-	-
			F Type V	44,958	126	5	0	2	43,272	121	5	0	2	41,586	116	5	0	2
Optimized 225w	525	483	C Type III	71,283	148	5	0	5	68,609	142	5	0	5	-	-	-	-	-
			D Type IV	72,256	150	4	0	5	69,571	144	4	0	5	-	-	-	-	-
			F Type V	67,996	141	5	0	3	65,446	135	5	0	3	-	-	-	-	-
LED 256w	525	549	A Type I	68,942	125	5	0	4	66,357	121	5	0	4	-	-	-	-	-
			B Type II	65,769	120	5	0	4	63,303	115	5	0	4	-	-	-	-	-
			C Type III	72,250	132	5	0	5	69,541	127	5	0	5	66,831	122	5	0	5
			D Type IV	59,615	109	4	0	5	57,380	104	4	0	5	-	-	-	-	-
			F Type V	68,918	125	5	0	3	66,334	121	5	0	3	63,750	116	5	0	3

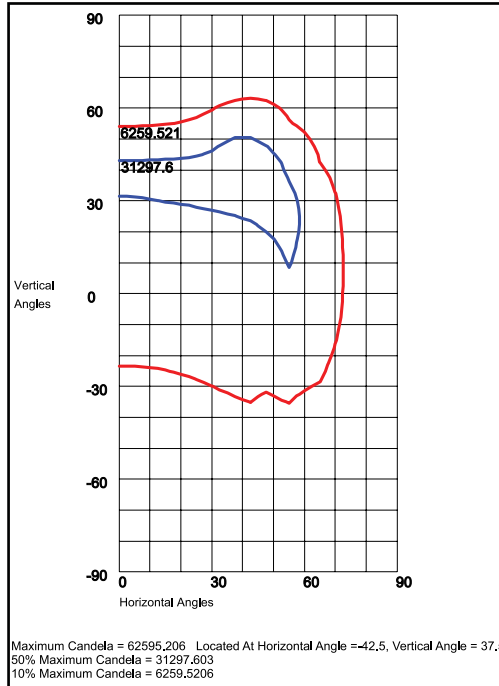
Specifications subject to change without notice. Rev. 042721

Kitty Hawk PowerBolt Area and Flood Light

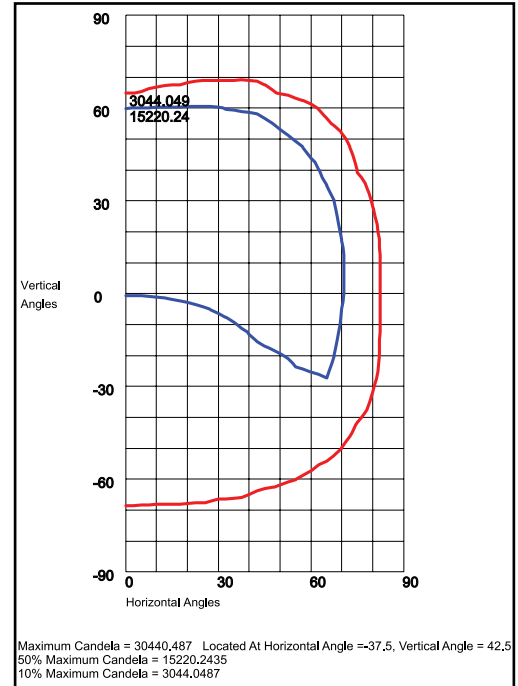
Photometric Data



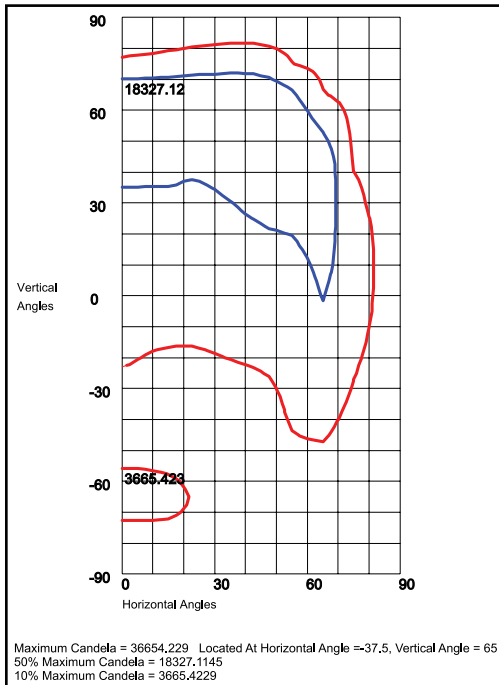
NHL-KH55-A-256W-50K-U-C
130°H x 70°V, NEMA 7H x 5V



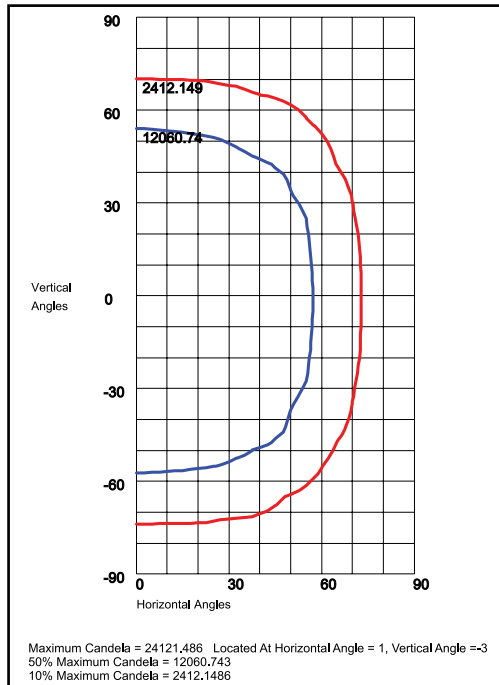
NHL-KH55-B-256W-50K-U-C
110°H x 30°V, NEMA 7H x 6V



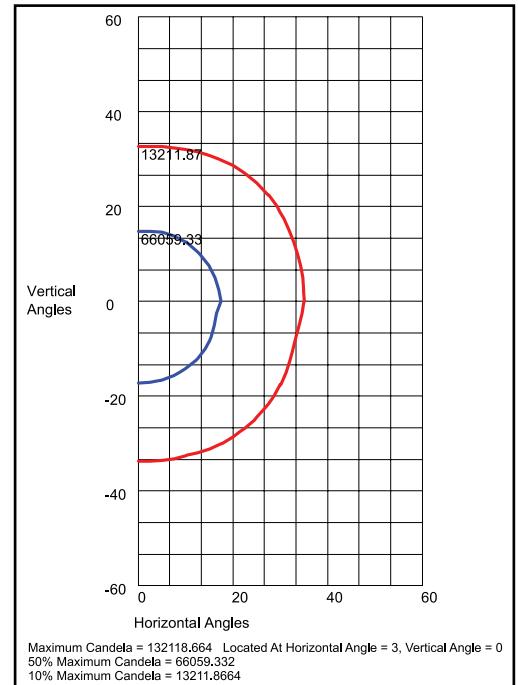
NHL-KH55-C-256W-50K-U-C
120°H x 70°V, NEMA 7H x 7V



NHL-KH55-D-256W-50K-U-C
110°H x 30°V, NEMA 6H x 5V



NHL-KH55-F-256W-50K-U-C
110°H x 110°V, NEMA 7H x 7V



NHL-KH55-I-256W-50K-U-C*
30°H x 30°V, NEMA 4H x 4V



NHL-KH55

L70
25°C

290,000 Hours

Kitty Hawk PowerBolt Area and Flood Light

Photometric Performance

LED Board Watts	Drive Current (mA)	Input Watts	Beam	5000 CCT 80 CRI		4000 CCT 80 CRI		3000 CCT 80 CRI	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
Optimized 136w	525	297	C 120°H x 70°V, NEMA 7H x 7V	43,665	147	42,028	142	-	-
			D 110°H x 30°V, NEMA 6H x 5V	44,092	149	42,438	143	-	-
			F 110°H x 110°V, NEMA 7H x 7V	42,060	142	40,482	136	-	-
LED 167w	525	358	A 130°H x 70°V, NEMA 7H x 5V	44,944	126	43,258	121	-	-
			B 110°H x 30°V, NEMA 7H x 6V	42,961	120	41,350	116	-	-
			C 120°H x 70°V, NEMA 7H x 7V	46,794	131	45,039	126	43,284	121
			D 110°H x 30°V, NEMA 6H x 5V	47,250	132	45,479	127	-	-
			F 110°H x 110°V, NEMA 7H x 7V	45,074	126	43,383	121	41,693	117
			I 30°H x 30°V, NEMA 4H x 7V	48,316	135	46,504	130	-	-
Optimized LED 225w	525	483	C 120°H x 70°V, NEMA 7H x 7V	70,772	147	68,118	141	-	-
			D 110°H x 30°V, NEMA 6H x 5V	71,462	148	68,782	143	-	-
			F 110°H x 110°V, NEMA 7H x 7V	68,170	141	65,613	136	-	-
LED 256w	525	549	A 130°H x 70°V, NEMA 7H x 5V	68,895	125	66,312	121	-	-
			B 110°H x 30°V, NEMA 7H x 6V	65,857	120	63,387	115	-	-
			C 120°H x 70°V, NEMA 7H x 7V	71,732	131	69,042	126	66,352	121
			D 110°H x 30°V, NEMA 6H x 5V	58,965	107	56,754	103	-	-
			F 110°H x 110°V, NEMA 7H x 7V	69,094	126	66,504	121	63,913	116
			I 30°H x 30°V, NEMA 4H x 7V	74,070	135	71,294	130	-	-

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 549w	1.00	0.97	0.95	0.90	290,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.94	0.88	0.76	84,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.95	0.91	0.81	108,000

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.