

PROJECT NAME:

TYPE:

NOTES:

## IK10 PLUS HIGH EFFICACY SERIES

HIGH-BAY LED LUMINAIRE SPECIALIZING IN HIGH-ABUSE APPLICATIONS. INTENDED FOR GYMNASIUMS, NATATORIUMS, MANUFACTURING AND INDUSTRIAL FACILITIES, WAREHOUSES, CONVENTION CENTERS AND OTHER HIGH-CEILING APPLICATIONS.

### OPTICS:

- WIDE 120° BEAM ANGLE FOR MAXIMUM UNIFORMITY
- DIFFUSE LENSING AVAILABLE IN CLEAR AND WHITE
- OPTIONAL POLYCARBONATE OR ACRYLIC LENSES
- WRAP-AROUND LENS OFFERS UP TO 10% UPLIGHT
- LED BARS ARE ROTATABLE FOR CUSTOM LIGHT DISTRIBUTION
- OPTIONAL NARROW REFLECTOR FOR AISLE APPLICATIONS

### MECHANICAL:

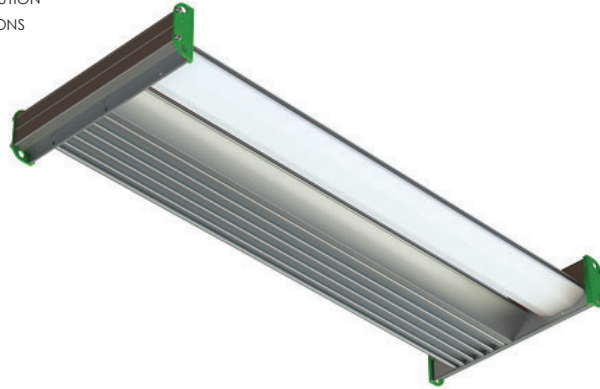
- EXCEEDS IMPACT RATING OF IK10
- EXTRUDED ALUMINUM CONSTRUCTION
- STAINLESS STEEL HARDWARE
- ISOLATED DRIVER CHANNELS
- THERMALLY INDEPENDENT HEAT SINK LED BARS
- BRIGHT DIP ANODIZED FOR CORROSION RESISTANCE
- AMBIENT TEMPERATURE RATING:  
-40°F TO 150°F, -40°C TO 65.5°C

### COMPONENTS:

- HIGH-OUTPUT SAMSUNG LED CHIPS
- HIGH-TEMP OSRAM DRIVERS

### INSTALLATION:

- AIRCRAFT CABLE SUSPENSION
- SURFACE MOUNTING
- RIGID PENDANT
- CUSTOM MOUNTS AVAILABLE, CONTACT FACTORY



### PERFORMANCE:

- 6,726 NOMINAL LUMENS (5000K, NO LENS)
- 39 WATTS
- 172 LUMENS PER WATT
- TM-21: L<sub>70</sub> >72,000 HOURS
- CALCULATED L<sub>70</sub> >184,000 HOURS SPACING

### ELECTRICAL:

- 120-277VAC STANDARD / 347-480VAC OPTIONAL
- 0-10V, 10% DIMMING DRIVERS STANDARD

### WARRANTY:

- 10-YEAR WARRANTY ON FIXTURE BODY
- 5-YEAR WARRANTY ON ELECTRONICS
- FOR SPECIAL REQUESTS, CONTACT FACTORY

### FIXTURE DIMENSIONS:

- 24" L x (9-15)" W x 2.5" H
- 5-8 LBS SEE ASSEMBLY CONFIGURATIONS BELOW

### LISTINGS AND RATINGS:

- UL 1598 FOR DRY, DAMP, WET, AND CANOPY LOCATIONS
- ARRA COMPLIANT (MADE IN AMERICA)
- IP 56 RATED
- UL EPH LISTED - NSF RATED
- DLC PREMIUM LISTED
- 3G VIBRATION RATING



LUX IK10P E 1 H03 2'

MFR	SERIES	OUTPUT	NUMBER OF BARS	ELECTRONIC CHANNELS	ASSEMBLY CONFIG.	MODULE	CRI CCT	LENGTH	VOLTAGE DIMMING	LENS	NARROW OPTICS	CORD	CONTROLS	EMERGENCY BACKUP	CHANNEL ACCESS	BAR AIMING	FINISH	MOUNTING	APPLI-CATION	CUSTOM FIXTURE OUTPUT
LUX	IK10+	E-HIGH EFFICACY	1	S -SINGLE D -DOUBLE T -TRIPLE Q -QUAD	A B C D E F G PLACEMENT OF BARS/ CHANNELS IN FIXTURE BODY. SEE BELOW FOR OPTIONS.	HIGH OUTPUT GEN. 3	850 840 835 830	2'	120-277V U10 10% dim U1 1% dim UX no dimming 347-480V H10 10% dim H1 1% dim HX no dimming	NL CA2 WA2 CP2 WP2 SECONDARY NARROW OPTIC MAY BE USED ON SOME OR ALL BARS OF FIXTURE. IF MIXED DISTRIBUTION IS REQUIRED, PLEASE COORDINATE WITH FACTORY TO SPECIFY	3/10 4/10 5/10 6/10 WIRES 3 TO 6 LENGTH 10', 15', 20', 30'	DLH DAYLIGHT SENSOR OCC OCCUPANCY SENSOR D/O DAYLIGHT AND OCCUPANCY WCM WIRELESS CONTROL	EM 10 10W BATTERY EM 15 15W BATTERY	TOP BOT	DIR 0°NADIR IND 180°NADIR CLD CUSTOM LIGHT DISTRIBUTION COORDINATE WITH FACTORY FOR ALL CLD ORDERS.	STND MFHB CC ● END CAP ● CHANNEL ● LID ● HANGING BRACKETS ● BAR	CABLE: H10-18Y H10-18Y T H4P10 H4P10SS PENDANT: MH1P MH2P SPM SURFACE: SM UH2 UH4 SEE MOUNTING DETAILS (PG2) FOR AVAILABLE OPTIONS	ARCH AFH GEN GYM HNG ICE MFG NAT TC WHS	PLEASE NOTE DELIVERED LUMENS ABOVE	

### CRI PERFORMANCE DATA

80 CRI - STANDARD/NOMINAL  
90 CRI - 6% LIGHT LOSS  
OTHER CRI AVAILABLE, CONTACT FACTORY

### CHANNEL AND ASSEMBLY CONFIGURATION:



CUSTOM CONFIGURATIONS AVAILABLE, CONTACT FACTORY

### CCT PERFORMANCE DATA

5000K - STANDARD/NOMINAL  
4000K - 4% LIGHT LOSS  
3500K - 6% LIGHT LOSS  
3000K - 8% LIGHT LOSS  
OTHER CCT AVAILABLE, CONTACT FACTORY

### LENS PERFORMANCE DATA

NL (NO LENS) - NOMINAL, NO LIGHT LOSS  
CAx (CLEAR ACRYLIC) - 9% LIGHT LOSS  
WAx (WHITE/FROSTED ACRYLIC) - 16% LIGHT LOSS  
CPx (CLEAR POLYCARBONATE) - 14% LIGHT LOSS  
WPx (WHITE/FROSTED POLYCARBONATE) - 22% LIGHT LOSS

### CORD DATA

3 WIRE - SINGLE LEG ON/OFF SWITCH  
4 WIRE - DUAL LEG SWITCH, OR SINGLE SWITCH WITH EMERGENCY BATTERY  
5 WIRE - SINGLE LEG SWITCH WITH DIMMING  
6 WIRE - DUAL LEG SWITCH WITH DIMMING OR SINGLE SWITCH WITH EMERGENCY BATTERY

### APPLICATION TYPE:

ARCH - ARCHITECTURAL  
AFH - ARENA/FIELDHOUSE  
GEN - GENERAL  
GYM - GYMNASIUM  
HNG - HANGAR  
ICE - ICE RINK  
MFG - MANUFACTURING  
NAT - NATATORIUM  
TC - TENNIS COURT  
WHS - WAREHOUSE

### FIXTURE "FINISH" DETAILS

STND-STANDARD:  
-LUX GREEN HANGING BRACKETS  
-BRIGHT DIP ANODIZED EXTRUSIONS  
-QUALIFIES AS NATATORIUM RATED  
-IF INSTALLED IN A NATATORIUM, LUX RECOMMENDS STAINLESS STEEL MOUNTS.

MFHB-HANGING BRACKETS:  
-MILL FINISH HANGING BRACKETS  
-BRIGHT DIP ANODIZED EXTRUSIONS

CC-CUSTOM COLOR:  
-2MIL NATATORIUM-GRADE POWDERCOATED COMPONENTS IN ANY COLOR.  
-PLEASE SPECIFY RAL NUMBER AND COMPONENTS TO BE FINISHED WHEN ORDERING.

### CHANNEL ACCESS

TOP - FIXTURE CHANNEL ACCESSIBLE FROM ABOVE, NOT AVAILABLE ON SURFACE MOUNTS.  
BOTTOM - FIXTURE CHANNEL ACCESSIBLE FROM BELOW.

## PHOTOMETRIC DATA

### LUX-IK10P-E-1-SA-HO3-850-2-U10-CA2

#### LUMEN OUTPUT TABLE

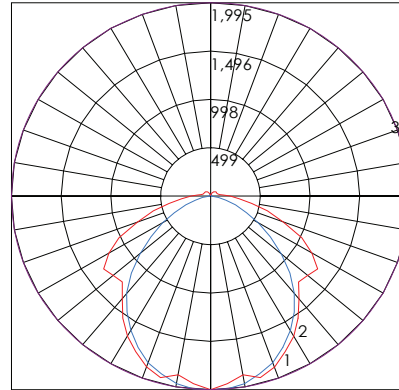
80+ CRI STANDARD

Lens	5000K	4000K	3500K	3000K
NL (No Lens)	6,726	6,457	6,322	6,188
CAx (Clear Acrylic)	6,121	5,876	5,753	5,631
WAx (White Acrylic)	5,650	5,424	5,311	5,198
CPx (Clear Polycarbonate)	5,784	5,553	5,437	5,322
WPx (White Polycarbonate)	5,246	5,036	4,932	4,827

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	717	11.60%
0-30	1,521	24.60%
0-40	2,462	39.80%
0-60	4,304	69.60%
0-80	5,540	89.60%
0-90	5,788	93.60%
10-90	5,602	90.60%
20-40	1,745	28.20%
20-50	2,687	43.50%
40-70	2,591	41.90%
60-80	1,237	20.00%
70-80	487	7.90%
80-90	248	4.00%
90-110	194	3.10%
90-120	258	4.20%
90-130	313	5.10%
90-150	377	6.10%
90-180	395	6.40%
110-180	201	3.20%
0-180	6,183	100.00%

#### POLAR CANDELA GRAPH



#### LEGEND:

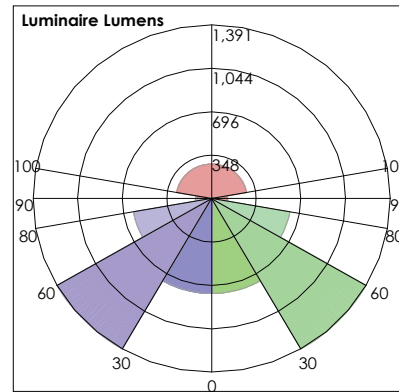
MAXIMUM CANDELA = 1995  
LOCATED AT:  
HORIZONTAL ANGLE = 0,  
VERTICAL ANGLE = 0

#1: VERTICAL PLANE  
THROUGH HORIZONTAL  
ANGLES (0 - 180)  
(THROUGH MAX. CD.)

#2: VERTICAL PLANE  
THROUGH HORIZONTAL  
ANGLES (90 - 270)

#3: HORIZONTAL CONE  
THROUGH VERTICAL ANGLE  
(0) (THROUGH MAX. CD.)

#### LCS GRAPH



**FRONT:**  
LOW=760.5  
MEDIUM=1391.4  
HIGH=618.3  
VERY HIGH=123.8

**BACK:**  
LOW=760.5  
MEDIUM=1391.4  
HIGH=618.3  
VERY HIGH=123.8

**UPLIGHT:**  
LOW=119.4  
HIGH=275.6

**BUG RATING:**  
B2-U3-G2

#### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RC	80				70				50				40				10				0			
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94	.94	.94	.94	.94		
1	1.06	1.01	.96	.92	1.03	.98	.94	.90	.93	.89	.86	.88	.85	.82	.83	.81	.79	.76	.76	.79	.79	.76		
2	.96	.87	.80	.74	.93	.85	.78	.73	.80	.75	.70	.76	.71	.67	.72	.68	.65	.62	.62	.65	.65	.62		
3	.87	.76	.68	.61	.84	.74	.67	.60	.70	.64	.58	.67	.61	.57	.63	.59	.55	.52	.52	.55	.55	.52		
4	.80	.68	.59	.52	.77	.66	.57	.51	.62	.55	.50	.59	.53	.48	.56	.51	.47	.44	.44	.47	.47	.44		
5	.73	.60	.51	.44	.71	.59	.50	.44	.56	.48	.43	.53	.47	.42	.51	.45	.41	.38	.38	.41	.41	.38		
6	.68	.54	.45	.39	.65	.53	.44	.38	.50	.43	.37	.48	.42	.37	.46	.40	.36	.33	.33	.36	.36	.33		
7	.63	.49	.40	.34	.61	.48	.40	.34	.46	.38	.33	.44	.37	.32	.42	.36	.32	.30	.30	.32	.32	.30		
8	.58	.45	.36	.30	.57	.44	.36	.30	.42	.35	.29	.40	.34	.29	.39	.33	.28	.26	.26	.28	.28	.26		
9	.55	.41	.33	.27	.53	.40	.32	.27	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24	.24	.26	.26	.24		
10	.51	.38	.30	.25	.50	.37	.30	.25	.36	.29	.24	.34	.28	.24	.33	.27	.23	.21	.21	.23	.23	.21		

#### OPTION DATA

CONTACT FACTORY FOR DETAILED SPECIFICATIONS OF EACH OPTION. CONTACT FACTORY FOR USE IN 347/480V APPLICATIONS.

DAYLIGHT HARVESTING & OCCUPANCY SENSOR	
CONTROL TYPE	PIR/PHOTOCELL 1-10v
AMBIENT TEMPERATURE	5°C TO 55°C
MOUNTING HEIGHT	8' TO 40'

OCCUPANCY SENSOR - ON/OFF	
CONTROL TYPE	PIR LINE VOLTAGE
AMBIENT TEMPERATURE	-10°C TO 60°C, LOW TEMP OPTION AVAILABLE
MOUNTING HEIGHT	15' TO 40'

WIRELESS CONTROL MODULE	
CONTACT FACTORY FOR WIRELESS CONTROL/SENSOR OPTIONS	

EMERGENCY BATTERY 10-WATT	
APPROX. LUMEN OUTPUT	1,360 LUMENS WITH CA LENS AND 5000K
AMBIENT TEMPERATURE	0°C TO 55°C
ILLUMINATION TIME	90 MINUTES


EMERGENCY BATTERY 15-WATT	
APPROX. LUMEN OUTPUT	2,040 LUMENS WITH CA LENS AND 5000K
AMBIENT TEMPERATURE	0°C TO 55°C
ILLUMINATION TIME	90 MINUTES

**MOUNTING DETAILS**

**CABLE MOUNTS:**



**HXX-18Y OR HXX-18Y T (AC CABLE 2-POINT)**  
 -"XX" DENOTES LENGTH IN FEET.  
 AVAILABLE IN 10', 20', 30'  
 -"T" AT END OF PART NUMBER  
 DENOTES TOGGLE INSTEAD OF HOOK



**H4PXX (AC CABLE 4-POINT)**  
 -"XX" DENOTES LENGTH IN FEET.  
 AVAILABLE IN 10', 20', 30'  
 -"SS" AT END OF PART NUMBER  
 DENOTES NATATORIUM GRADE 316 STAINLESS STEEL.  
 RECOMMENDED FOR NATATORIUM APPLICATIONS

**PENDANT MOUNT:**



**SPM (SINGLE POINT MOUNT)**  
 -3/4" IP THREADED HUB, SUSPENDED JUNCTION BOX  
 -FIXED LENGTH (3' OR 5') AIRCRAFT CABLE HANGERS  
 PROVIDED WITH HOOK ENDS.  
 -POWER CORD ORDERED SEPARATELY

**MYER'S HUB PENDANT MOUNTS:**

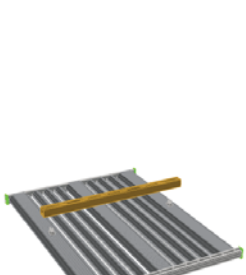


**MH1P (MYERS HUB 1 POINT)**  
 -(1) 3/4" IP THREADED HUB PROVIDED  
 -OTHER HUB DIAMETERS ARE AVAILABLE, CONTACT FACTORY  
 -MACHINED MOUNTING POINT IN FIXTURE CENTER PROVIDED  
 -STEM/THREADED ROD NOT PROVIDED  
 -NOT AVAILABLE ON ALL MODELS AND OPTIONS,  
 CONTACT FACTORY FOR DETAILS.

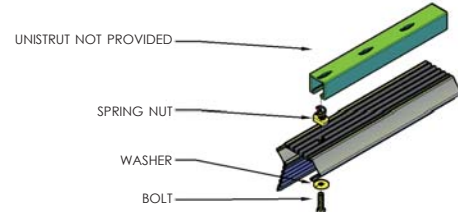
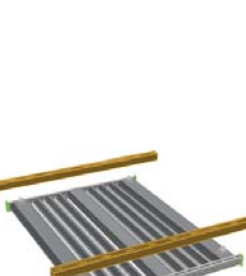
**SURFACE MOUNTS:**



**SM (SURFACE MOUNT)**  
 -NO ADDITIONAL HANGING HARDWARE PROVIDED  
 -FIXTURE MAY BE ANCHORED TO ANY SUITABLE SUBSTRATE  
 THROUGH ELECTRONICS CHANNEL



**UH2 (UNISTRUT HARDWARE, 2 POINT)**  
 -UNISTRUT HARDWARE INCLUDES SPRING-NUT AND BOLT  
 -2 SETS WILL BE PROVIDED

**UH4 (UNISTRUT HARDWARE, 4 POINT)**  
 -UNISTRUT HARDWARE INCLUDES SPRING-NUT AND BOLT  
 -4 SETS WILL BE PROVIDED

