



# The Light Edge, Inc.

energy efficient lighting of unsurpassed quality

## LED HIGH PERFORMANCE HIGHBAY

### FEATURES & SPECIFICATIONS

A narrow profile LED high-output commercial/industrial highbay luminaire robustly designed in a sustainable platform for maximum performance with minimum energy use. BLACKHAWK™ is ready to install right out of the box – no assembly required. Electrically stress-reduced Dense Array© LED system is rated for extreme life. This product offers outstanding savings on installation and maintenance labor costs. **UL/CUL Damp Location Listed. Made in USA.**

#### Housing

Robust, extruded aluminum finned heatsink/housing with thermally isolated drivers. 16 gauge aluminum end plates with ThruFlo© ventilation slots and lamp access coverplate. Class 1 black anodized standard finish for excellent thermal dissipation and durability.

#### Electrical

24 each nominal 24" circuit boards each contain 63 Low Power, High Efficiency (114 lumen/Watt), 85 CRI, 40 lumen, 120 mA, constant current LED 16-die chipsets arranged in parallel rows for uniformity of distribution and visual comfort. Drivers are Class II, thermally isolated, 24V output electronic HPF, <15% THD, UL/CUL listed. Driver life >192,000 hours. 120/277V or 347/480V paired drivers allow bi-level switching or 1-10V dimming. **60,000 lumens (nom.)** output. 55°C maximum ambient installation. Input watts = **618W**. Anticipated life >118,000 hours (based on TM-21 calculations). ‡

#### Optics

120° LED beam spread for broad, smooth distribution curve. NEMA Type V round distribution. Optional tool-less, hinging extruded aluminum door frames with 0.125" clear or etched acrylic or polycarbonate, or clear tempered glass options.

#### Mounting

Fixture provided with Heavy-Duty brackets as standard for surface, cable, or threaded rod suspension. Power feed stem or hook mounting options available.

#### Shipping

Shipped assembled & fully tested in Protective Job Pack.

### CATALOG NUMBER LOGIC:

FIXTURE MODEL	FIXTURE LENGTH	LAMP WATTS	LAMP COLOR TEMP.	POWER SUPPLY	OPTIONS
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#### BALLAST AND OPTIONS DESCRIPTIONS:

##### MODEL:

- BLK2 = BLACKHAWK™ highbay (10,000 lumens)
- BLK4 = BLACKHAWK™ highbay (20,000 lumens)
- BLK8 = Paired (2) BLK4™ units (40,000 lumens)
- BLK12 = Tripled (3) BLK4™ units (60,000 lumens)**

##### LENGTH:

- 4 = 4 FEET NOMINAL

##### Nominal System WATTAGE:

- 100 = 103W (BLK2 only, 10,000 lumens nom.)
- 200 = 206W (BLK4 only, 20,000 lumens nom.)
- 400 = 412W (BLK8 only, 40,000 lumens nom.)
- 600 = 618W (BLK12 only, 60,000 lumens nom.)

##### COLOR TEMPERATURE (LAMP):

- 40 = 4000K (STANDARD)
- (Consult factory for other color temperatures)

##### POWER SUPPLY:

- MVD = 120/277V Multivolt, paired for bi-level switching ability†
- 1-10V DIMMING** capable (Consult factory for control compatibility)
- D3D = 347/480V Multivolt, paired for bi-level switching ability†
- 1-10V DIMMING** capable (Consult factory for control compatibility)

##### MOUNTING OPTIONS:

- ASC\* = Aircraft cable suspension kit with slotted gripper (fits hanging tabs)
- ASP\* = Powered aircraft cable kit, one ckt, slotted gripper (fits hanging tab)
- ASPB\* = Powered aircraft cable kit, two ckts, slotted gripper (fits hanging tab)†
- PFS = Power Feed Stem kit, three-piece coupling (for 3/8" stem by others)
- PFH = Power Feed Hook kit
- SC = Safety Cable, adjustable Gripple #2, 10' length\*\*

\* Specify length of drop in feet

\*\* Two pair SC Safety Cables provided and required for BLK8/BLK12

† Except BLK2, which has one driver

‡ BLK2 has 1/2 the LEDs, controlled with one driver; 10,000 lumens nom.

##### LENSING OPTIONS:

- LA = ACRYLIC LENS in hinging aluminum door frame
- LAE = ACRYLIC LENS, ETCHED, in hinging aluminum door frame
- LP = POLYCARBONATE LENS in hinging aluminum door frame
- LPE = POLYCARBONATE LENS, ETCHED, in hinging aluminum door frame
- TGL = TEMPERED GLASS LENS in hinging aluminum door frame
- CBC = CONFORMAL BOARD COATING (for dirty or abusive environments)

##### POWER FEED OPTIONS:

- CS\* = CORDSET, 16/3, BLACK INSTALLED
- CT\* = CORDSET, 16/4, BLACK INSTALLED†
- FW\* = FLEX WHIP, 3/8" 18/3 FILL, 1/2" FITTING
- CPX = Cord Plug, specify NEMA plug configuration

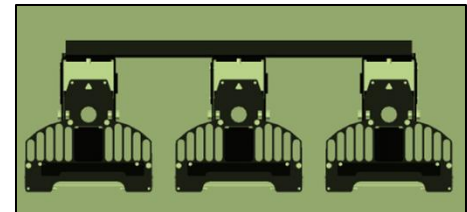
##### CONTROL OPTIONS:

- OS = OCCUPANCY SENSOR, FIXTURE MOUNTED (SPECIFY DISTRIBUTION)
- DM = PREPPED FOR 0-10V DIMMING LEAD CONNECTIONS
- SW = SPLIT WIRED FOR BI-LEVEL SWITCHING ABILITY†
- EM = EMERGENCY BATTERY PACK, 2100 LUMENS, 90 MINUTES

Project	
Fixture Type	
Catalog #	
Distrib/Cont	
Date:	Prepared By:

# BLACKHAWK™ Series BLK12™

TRADEMARK



23.0"

7"

#### Dimensions:

**BLK12** 23"W x 7"H x 47.625"L

**Weight** : 84 lbs. 2 oz.

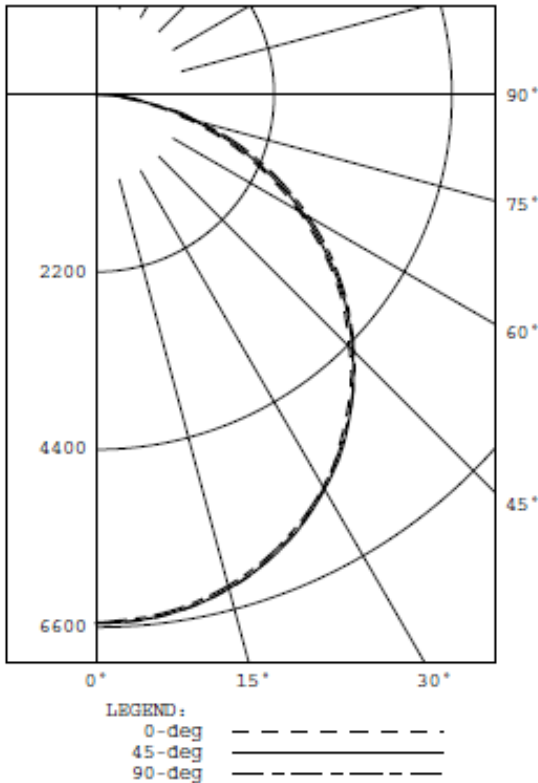


**BLACKHAWK™ Series**  
**BLK4/8/12™**

**PHOTOMETRIC TEST REPORT:**

REPORT NUMBER: ITL77882  
CATALOG NO.: BLK4-4-220-XX-MV  
TOTAL INPUT WATTS: 205.9  
NET LUMEN OUTPUT: 18,983 LUMENS  
WITH ETCHED LENS – 14,446 LUMENS

**DISTRIBUTION CURVE**



**CANDELA DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	6546	6546	6546	6546	6546
5	6537	6494	6532	6540	6506
15	6339	6301	6336	6336	6301
25	5924	5888	5935	5930	5891
35	5263	5247	5322	5325	5291
45	4425	4439	4485	4521	4509
55	3449	3460	3498	3562	3562
65	2318	2325	2388	2438	2480
75	1152	1177	1248	1236	1295
85	193	222	259	322	362
90	0	0	0	0	0
95	0	0	0	0	0
105	0	0	0	0	0
115	0	0	0	0	0
125	0	0	0	0	0
135	0	0	0	0	0
145	0	0	0	0	0
155	0	0	0	0	0
165	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

**LUMINANCE DATA (CD/SQ. M)**

	0-DEG	45-DEG	90-DEG
45	31638	32067	32239
55	30401	30833	31397
65	27730	28567	29668
75	22503	24378	25296
85	11195	15024	20999

**ZONAL LUMEN SUMMARY**

0 - 30	5131	27.0
0 - 40	8442	44.5
0 - 60	15025	79.2
0 - 90	18983	100.0
90 - 120	0	0.0
90 - 130	0	0.0
90 - 180	0	0.0
0 - 180	18983	100.0

**NOTE:**

**BLK8 AND BLK12 ARE GANGED BLK4 UNITS; IT IS THEREFORE PHOTOMETRICALLY CORRECT TO INSERT TWO (FOR BLK8) OR THREE (FOR BLK12) BLK4 'IES' PHOTOMETRIC FILES INTO YOUR CALCULATION PROGRAM, SPACED 8" ON CENTER.**



**ARRA**  
Funding Compliant

**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

20	20	20	20	20	20
80	70	50	30	10	0
70 50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 10	0
119 119 119 119	116 116 116 116	111 111 111	106 106 106	102 102 102	100
109 104 100 96	106 102 98 94	98 94 91	94 91 89	90 88 86	84
99 91 84 78	96 89 82 77	85 80 75	82 77 74	79 75 72	70
90 79 71 65	88 78 70 64	75 68 63	72 67 62	70 65 61	59
82 70 61 55	80 69 61 54	66 59 54	64 58 53	62 57 52	50
76 63 54 47	74 62 53 47	59 52 46	57 51 46	56 50 45	43
70 56 47 41	68 55 47 41	54 46 40	52 45 40	50 44 40	38
65 51 42 36	63 50 42 36	49 41 36	47 40 35	46 40 35	33
60 47 38 32	59 46 38 32	45 37 32	43 37 32	42 36 31	30
56 43 34 29	55 42 34 29	41 34 29	40 33 28	39 33 28	27
53 39 31 26	51 39 31 26	38 31 26	37 30 26	36 30 26	24

**WARRANTY:** The Light Edge, Inc. warrants the BLACKHAWK™ LED board and Drivers for 5 years and that the housing will be free from defects in material and workmanship for 15 years from date of purchase. Refer to website for full warranty information.