



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

Eight 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. **20,000** lumens (nom.) output. 55°C maximum ambient installation. Input watts = **206W**. 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 frame 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:

Blank space for catalog number logic.

| FIXTURE MODEL | FIXTURE LENGTH | LAMP WATTS | LAMP COLOR TEMP. | POWER SUPPLY | OPTIONS |
|---------------|----------------|------------|------------------|--------------|---------|
|---------------|----------------|------------|------------------|--------------|---------|

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

LAMP WATTAGE:

- 100 = 100W (BLK2 only, 10,000 lumens nom.)
- 200 = 200W (BLK4 only, 20,000 lumens nom.)
- 400 = 400W (BLK8 only, 40,000 lumens nom.)
- 600 = 600W (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†
 - D3D = 347/480V Multivolt, paired for bi-level switching ability†
- 1-10V DIMMING** capable (Consult factory for control compatibility)

BLK4 MOUNTING OPTIONS:

- BACC* = Aircraft cable suspension kit, bolt-on gripper
- BACP* = Powered aircraft cable kit, one ckt, bolt-on gripper
- BACPB* = Powered aircraft cable kit, two ckt, bolt-on gripper
- PFS = Power Feed Stem kit, three-piece coupling (for 3/8" stem by others)
- PFH = Power Feed Hook kit

* Specify length of drop in feet

- BLK8/BLK12: come with two pair of SC safety cables & fixture loop.
- 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
- TGL = TEMPERED GLASS LENS in hinging aluminum door frame
- CBC = CONFORMAL BOARD COATING (for dirty or abusive environments)
- WGK = WIREGUARD KIT in hinging aluminum door frame

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

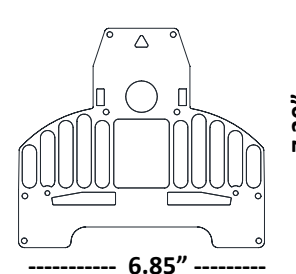
CONTROL OPTIONS:

- 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 BLK2/4/8/12™

TRADEMARK



Dimensions:

- BLK2** 6.85"W x 7.30"H x 47.625"L **Weight** : 20 lbs. 4 oz.
- BLK4** 6.85"W x 7.30"H x 47.625"L **Weight** : 24 lbs. 10 oz.
- BLK8** 15"W x 7.30"H x 47.625"L **Weight** : 52 lbs. 11 oz.
- BLK12** 23"W x 7.30"H x 47.625"L **Weight** : 84 lbs. 2 oz.

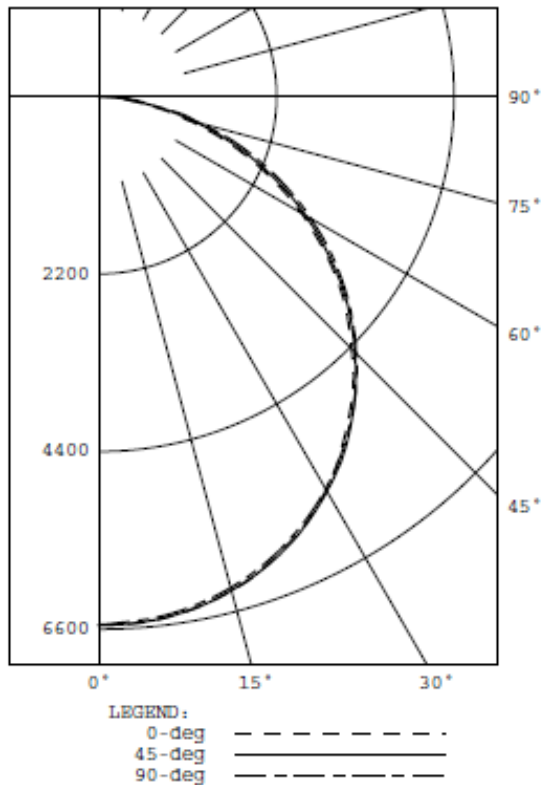


BLACKHAWK™ Series
BLK4/8/12™

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.



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.