



**LED – High Performance HIGH-OUTPUT High Bay Luminaire. OPEN no lens**

**FEATURES & SPECIFICATIONS**

A narrow profile LED high-output commercial/industrial high-bay 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 High Efficacy High-Density 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 the United States of America. ARRA Compliant.**

**Housing**

Robust, extruded aluminum finned heat-sink/housing with thermally isolated drivers. 16 gauge aluminum end plates with ThruFlo® ventilation slots and lamp access cover-plate. Class 1 black anodized standard finish for excellent thermal dissipation and durability.

**Lens**

Standard high impact Acrylic in swing down aluminum frame

**Electrical**

Eight nominal 24" circuit boards each containing 63 Low Power, High Efficacy Chips Sets, each set containing six (6) individual LED dies producing 148 lumens/watt at the die level. Dies are **85 CRI**, 4000K, 120 mA, constant current 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. 55°C maximum ambient installation. Rated L70 >68,000 hrs.

**Per Independent Test Lab Data (ITL Report ITL81686) the BLK4-HO delivers 24235 lumens while consuming only 187.2 watts. 129.5 lumens per watt DELIVERED!**

**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**

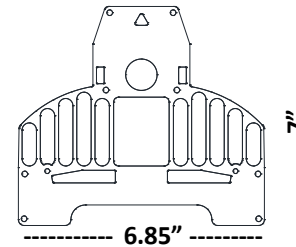
Fixture provided with Heavy-Duty brackets as standard for surface, cable, or threaded rod suspension. Power feed stem or hook mounting options available.

**Shipping:** Shipped assembled & fully tested in Protective Job Pack.

Date:
Project:
Engineer/Architect:
Fixture Type:
Catalog #:
Distributor:
Contractor:

**HIGH-OUTPUT Series**

**BLK4-HO™/BLK8-HO™/BLK12-HO™**



**Dimensions:**

**BLK4-HO** 6.85"W x 7"H x 47.625"L  
**BLK8-HO** 15"W x 7"H x 47.625"L  
**BLK12-HO** 23"W x 7"H x 47.625"L

**Weight : 24 lbs. 10 oz.**  
**Weight : 52 lbs. 11 oz.**  
**Weight : 84 lbs. 2 oz.**

**CATALOG NUMBER LOGIC: BLK4-HO-4-200-40-MVD-XX**

MODEL	FIXTURE LENGTH	FIXTURE WATTS	LED COLOR TEMP	POWER SUPPLY	OPTIONS
BLK4-HO	4	200	40	MVD	XX

**BALLAST AND OPTIONS DESCRIPTIONS:**

**MODEL:**

BLK4-HO = BLACKHAWK™ high bay (24235 lumens)  
 BLK8-HO = Paired (2) BLK4™ units (48470 lumens)  
 BLK12-HO = Tripled (3) BLK4™ units (72075 lumens)

**FIXTURE LENGTH:**

4 = 4 FEET NOMINAL

**INPUT WATTAGE @ 120V:**

BLK4-HO = 187.2W  
 BLK8-HO = 374.4W  
 BLK12-HO = 561.6W

**LED COLOR TEMP:**

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

**POWER SUPPLY:**

MVD = 120/277V Multi-volt, paired for bi-level switching ability†  
 1-10V DIMMING is Standard (Consult factory for control compatibility)  
 D3D = 347/480V Multi-volt, paired for bi-level switching ability†  
 1-10V DIMMING is standard (Consult factory for control compatibility)

**BLK4-HO 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 ckts, 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-HO/BLK12-HO:** come with two pair of SC safety cables & fixture loop.  
**BLK2-HO:** 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)

**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



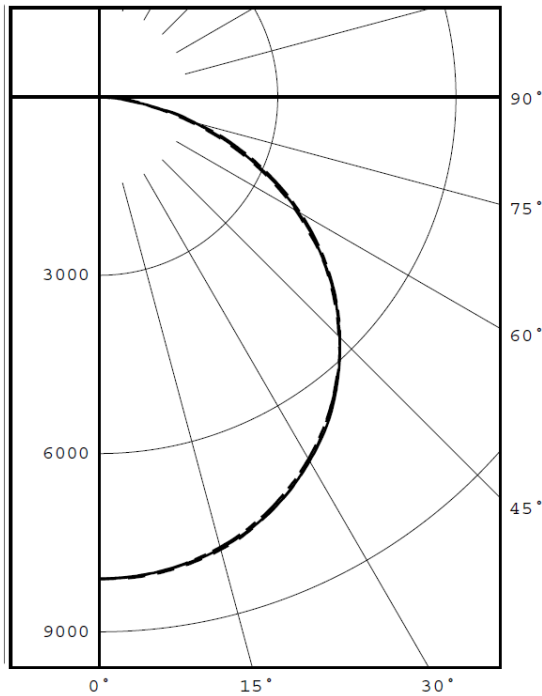


**BLACKHAWK Series™**  
**BLK4-HO/8-HO/12-HO™**  
**NO LENS**

**PHOTOMETRIC TEST REPORT:**

REPORT NUMBER: ITL81686  
CATALOG NO.: BLK4-HO-4-200-XX-MVD-XX  
TOTAL INPUT WATTS: 187.2W  
NET LUMEN OUTPUT: 20,746 LUMENS with lens  
24235 LUMENS without lens

**DISTRIBUTION CURVE**



LEGEND:  
0-deg -----  
45-deg -----  
90-deg -----

**CANDELA DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	8109	8109	8109	8109	8109
5	8102	8081	8078	8088	8078
15	7886	7856	7865	7855	7841
25	7407	7367	7403	7384	7359
35	6662	6625	6699	6682	6652
45	5692	5681	5714	5739	5723
55	4508	4505	4526	4580	4567
65	3081	3079	3131	3181	3200
75	1554	1577	1643	1708	1649
85	268	292	324	422	447
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	40697	40854	40918
55	39735	39894	40255
65	36857	37455	38281
75	30355	32094	32211
85	15546	18794	25929

**ZONAL LUMEN SUMMARY**

ZONE	LUM.	%FIXT
0 - 30	6393	26.4
0 - 40	10563	43.6
0 - 60	19014	78.5
0 - 90	24235	100.0
90 - 120	0	0.0
90 - 130	24235	100.0

**NOTE:**

BLK8-HO AND BLK12-HO ARE GANGED BLK4-HO UNITS; IT IS THEREFORE PHOTOMETRICALLY CORRECT TO INSERT TWO (FOR BLK8-HO) OR THREE (FOR BLK-12HO) BLK4 'IES' PHOTOMETRIC FILES INTO YOUR CALCULATION PROGRAM, SPACED 8" ON CENTER.



**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

RF	20	20	20	20	20	20
RC	80	70	50	30	10	0
RW	70 50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 10	0
0	119 119 119 119	116 116 116 116	111 111 111	106 106 106	102 102 102	100
1	109 104 100 96	106 102 98 94	98 94 91	94 91 89	90 88 86	84
2	99 91 84 78	96 89 82 77	85 80 75	82 77 74	79 75 72	70
3	90 79 71 65	88 78 70 64	75 68 63	72 67 62	70 65 61	59
4	82 70 61 55	80 69 61 54	66 59 54	64 58 53	62 57 52	50
5	76 63 54 47	74 62 53 47	59 52 46	57 51 46	56 50 45	43
6	70 56 47 41	68 55 47 41	54 46 40	52 45 40	50 44 40	38
7	65 51 42 36	63 50 42 36	49 41 36	47 40 35	46 40 35	33
8	60 47 38 32	59 46 38 32	45 37 32	43 37 32	42 36 31	30
9	56 43 34 29	55 42 34 29	41 34 29	40 33 28	39 33 28	27
10	53 39 31 26	51 39 31 26	38 31 26	37 30 26	36 30 26	24

