



LED – High Performance HIGH-OUTPUT High Bay Luminaire. WITH 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 ITL81688) the BLK4-HO delivers 20746 lumens while consuming only 187.3 watts. 110.8 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

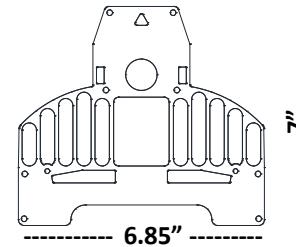
Fixture provided with Heavy-Duty brackets as standard for surface, cable, or threaded rod suspension. Power feed stem or hook mounting options available.

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 : 27 lbs. 14 oz.
Weight : 55 lbs. 15 oz.
Weight : 87 lbs. 6 oz.

CATALOG NUMBER LOGIC: BLK4-HO-4-200-40-MVD-LA

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

BALLAST AND OPTIONS DESCRIPTIONS:

MODEL:

BLK4-HO = BLACKHAWK™ high bay (24245 lumens)
 BLK8-HO = Paired (2) BLK4™ units (48490 lumens)
 BLK12-HO = Tripled (3) BLK4™ units (72735 lumens)

FIXTURE LENGTH:

4 = 4 FEET NOMINAL

INPUT WATTAGE @ 120V:

BLK4-HO = 187.3W
 BLK8-HO = 374.6W
 BLK12-HO = 561.9W

COLOR TEMPERATURE (LAMP):

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 ccts, 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



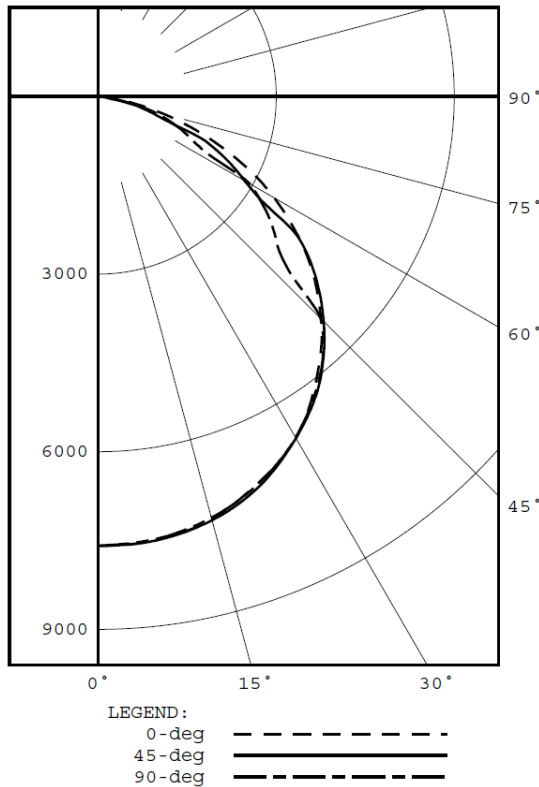


BLACKHAWK Series™
BLK4-HO/8-HO/12-HO™
WITH LENS

PHOTOMETRIC TEST REPORT:

REPORT NUMBER: ITL81688
CATALOG NO.: BLK4-HO-4-200-XX-MVD-LA
TOTAL INPUT WATTS: 187.3
NET LUMEN OUTPUT: 20,746 LUMENS with lens
24235 LUMENS without lens

DISTRIBUTION CURVE



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	7588	7588	7588	7588	7588
5	7579	7547	7580	7582	7558
15	7395	7365	7410	7398	7365
25	6945	6902	6978	6982	6946
35	6260	6257	6319	6310	6292
45	5310	5317	5373	5360	5298
55	4115	4127	4086	3470	3492
65	2677	2656	2256	1729	1757
75	1133	950	781	871	918
85	106	80	48	62	67
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	40595	41077	40503
55	38783	38510	32911
65	34242	28857	22474
75	23665	16312	19174
85	6575	2977	4156

ZONAL LUMEN SUMMARY

ZONE	LUM.	%FIXT
0- 30	6013	29.0
0- 40	9945	47.9
0- 60	17425	84.0
0- 90	20746	100.0
90-180	0	0.0
0-180	20746	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	110 105 101 98	107 103 100 96	99 96 93	95 93 91	92 90 88	86
2	100 93 86 81	98 91 85 80	87 82 78	84 80 76	81 78 75	72
3	92 82 74 68	89 80 73 67	77 71 66	74 69 65	72 67 64	62
4	84 73 64 58	82 71 63 57	69 62 56	66 60 56	64 59 55	53
5	77 65 56 50	75 64 56 49	62 54 49	60 53 48	58 52 48	46
6	71 58 50 43	70 58 49 43	56 48 43	54 48 43	52 47 42	40
7	66 53 44 38	65 52 44 38	51 43 38	49 43 38	48 42 37	35
8	62 48 40 34	60 48 40 34	46 39 34	45 39 34	44 38 34	32
9	58 44 36 31	56 44 36 31	43 36 31	42 35 30	41 35 30	28
10	54 41 33 28	53 40 33 28	39 32 28	38 32 28	38 32 27	26

