

Alphalite

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

ALPHA SERIES Fluorescent High Bay

HBA

DESCRIPTION

The Alpha series is an outstanding solution for high mounting height industrial or retail applications. The HBA optic has been optimized to provide maximum performance from the T5 lamps. HBA's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. The primary benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control.

APPLICATION

Primary applications include retail, shopping malls, light industrial, gymnasiums and recreational environments.

SPECIFICATION FEATURES

Construction

Full bodied rigid low-profile steel housing, made from 22 gauge prime cold rolled steel. Center access plate location allows for easy access to ballast leads. Sufficient knockouts for mounting, electrical, and occupancy sensor accessories. Housing features radiator slots for ample lamp and luminaire heat dissipation.

Electrical

Ballasts are Class "P" and are positively secured by mounting bolts. Pressure-lock lampholders. UL/CUL listed. Suitable for damp locations.

Mounting

The Alpha series is ideally suited for surface, suspension mounting with optional wire hook and chain set or cable mounting. (2) sets v-hook hangers included.



HBA

Alpha Series

Fluorescent High Bay

632, 432, 654, 454

Optics

Die formed, segmented optical design optimizes performance. HBA comes standard in wide distribution. Three distributions available. Optical choices include a narrow distribution for aisles, medium distribution for assembly and loading areas, or wide distribution for general, open area lighting. Optical modules produce 95% reflectivity.

Finish

White enamel finish preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

Warranty

When operated in high ambient conditions, the HBA is supported by a 5 yr/55°C and 3 yr/65°C ballast warranty for T5 configurations.

Quick Ship Product

ORDERING INFORMATION

Sample Number: HBA-654-UNV-ISH

HBA	6	54	UNV	IS	H	(Blank)
Series	# of Lamps	Individual Lamp Wattage	Voltage	Ballast Starting Method	Ballast Factor	Ballast Type
HBA =	4 Lamps		UNV = 120-277V	PS = Programmed Start	N = Normal	(Blank) = T8 Electronic, Fixed Output, THD < 10%
Alpha Series	6 Lamps	54 = 54W T5/HO				
Commercial High Bay	(not included)					

Accessories (order separately)

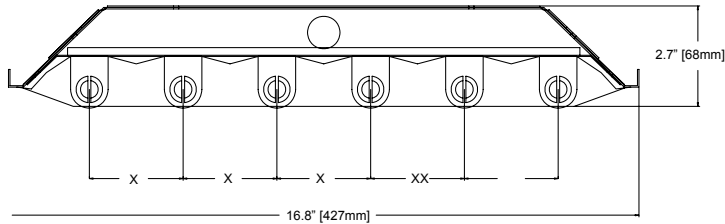
WG = Wire Guard

Y-Toggle/10 = Y-mounting tool, #2 cable, 10'

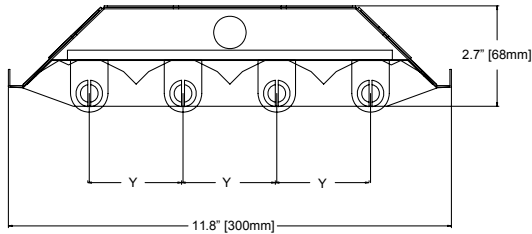
OS = Occupancy Sensor

LN = Lens

LAMP CONFIGURATION

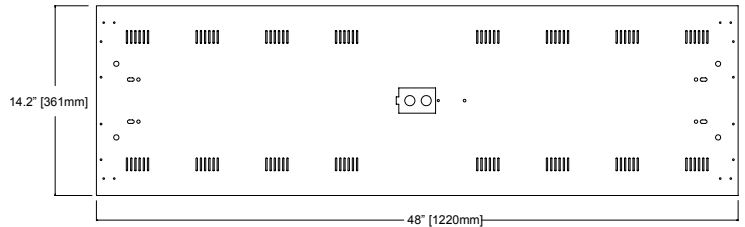
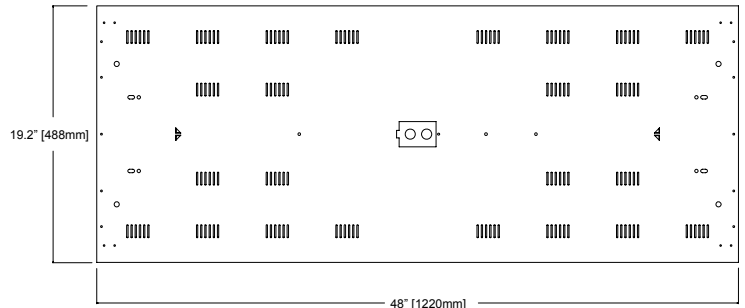


X = 2.5" [63.5mm]



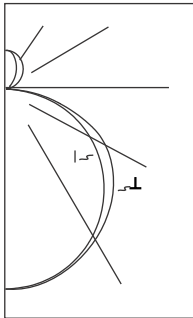
Y = 2.5" [63.5mm]

DIMENSION TOP VIEW



PHOTOMETRICS

HBA-654



(2) Electronic Ballast, High BF

(6) F54T5/841HO
54W T5 lamps, 4400 lumens

Spacing criterion:
(H) 1.3 x mounting height, (L)
1.3 x mounting height Efficiency
93.3%

Candlepower

Angle	Along H	45°	Across L
0	6850	6850	6850
5	6814	6836	6863
10	6739	6770	6796
15	6607	6648	6668
20	6418	6461	6487
25	6179	6222	6278
30	5891	5945	6049
35	5558	5637	5792
40	5183	5301	5498
45	4773	4929	5187
50	4335	4526	4827
55	3866	4100	4434
60	3370	3638	3997
65	2843	3159	3437
70	2283	2630	2685
75	1672	1932	1941
80	1012	1216	1267
85	348	548	548
90	4	37	50

Coefficients of Utilization

rc	Effective floor cavity reflectance																						
	80%				70%				50%				30%				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	109	109	109	109	105	105	105	105	98	98	98	92	92	92	86	86	86	84	84	84	84		
1	99	94	90	86	95	91	87	84	85	82	79	80	77	75	75	73	71	68	68	68	68		
2	89	81	74	69	86	78	72	67	74	69	64	69	65	61	65	62	59	56	56	56	56		
3	81	71	63	57	78	68	61	55	64	58	53	60	55	51	57	53	49	46	46	46	46		
4	74	62	54	47	71	60	53	47	57	50	45	53	48	43	50	46	42	39	39	39	39		
5	68	55	47	40	65	54	46	40	51	44	38	48	42	37	45	40	36	34	34	34	34		
6	62	50	41	35	60	48	40	34	46	39	33	43	37	32	41	35	31	29	29	29	29		
7	58	45	37	31	55	44	36	30	41	34	29	39	33	29	37	32	28	26	26	26	26		
8	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	29	25	23	23	23	23		
9	50	37	30	24	48	36	29	24	35	28	23	33	27	23	31	26	22	20	20	20	20		
10	47	34	27	22	45	34	26	22	32	26	21	30	25	21	29	24	20	18	18	18	18		

Zonal Lumen Summary

Zone	Lumen s	%Lam p	%Fik ture
0-30	5401	20.5	21.9
0-40	8947	33.9	36.3
0-60	16453	62.3	66.8
0-90	22065	83.6	89.6
0-180	24626	93.3	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/s m	Average 45-Deg cd/s m	Average 90-Deg cd/s m
45	11468	11843	12463
55	11451	12144	13134
65	11429	12699	13817
75	10975	12682	12741
85	6784	10682	10682

Specifications and dimensions subject to change without notice.

