

DESCRIPTION

The 2HBG series is an outstanding solution for high mounting height industrial or retail applications that require recessed luminaire. The 2HBG optic has been optimized to provide maximum performance from either T5 or T8 lamps.

APPLICATION

The 2HBG's high lumen package allows the benefits of fluorescent to be applied to applications requiring a recessed luminaire used at high mounting heights. 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. Primary applications include "big box" retail, shopping malls, light industrial, etc.

SPECIFICATION FEATURES

A... Construction

Nominal 6-5/8" deep, para-contoured housing, die formed code gauge, prime cold rolled steel. Die embossed housing has full length die formed stiffeners for added strength. Ballast/Wireway cover is easily removed. Die formed captive lampholder bracket fully encloses wiring, permitting easy lamp replacement. Heavy gauge end plates, securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KOs for continuous row wiring. End plates have integral Grid-Lock feature for safety and convenience. Housing features enable fixture to be converted from Grid to T-Option or vice-versa in the field.*

B... Electrical**

Ballasts are CBM/ETL Class "P". Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

C... Finish

Painted after fabrication. Electrostatically applied baked white polyester powder finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			



F-BAY2HBG SERIES

Recessed
2' x 4' High-Bay
4 or 6 Lamp

RECESSED HIGH-BAY INDUSTRIAL LUMINAIRE



ENERGY DATA

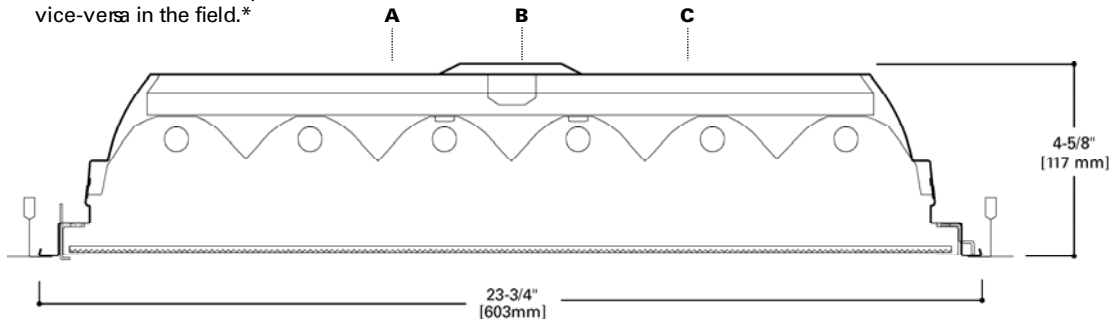
Input Watts:
EB Ballast & STD Lamps
632 = 176W
654 = 363W
Luminaire Efficacy Rating
LER = 81
Catalog Number: 2HB-632-UPL

Yearly Cost of 1000 Lumens,
3000 hrs. at .08 KWH = \$2.98

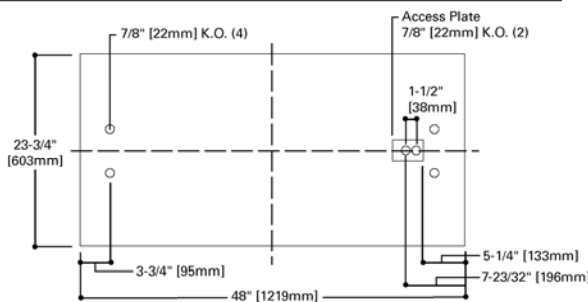
* Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements

** Consult Pre Sales Technical Support.

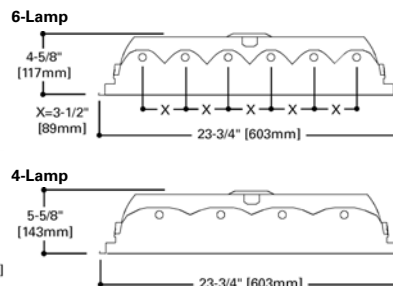
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DIMENSION TOP VIEW



LAMP CONFIGURATIONS

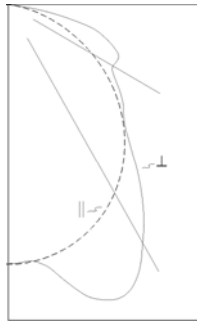


CEILING COMPATIBILITY

G	T	T	F	MZ	Ceiling Type	Trim Type
Grid/Lay-in Standard	Concealed T	Slot Grid	Flange Trim With Supporting Swing Gates	Modular Trim With Supporting Swing Gates	Exposed Grid	G
					Concealed T	G or T
					Slot Grid	G or T
					Flange	F
					Concealed Spline	MZ
					Metal Pan	MZ

(Verify compatibility/consult Pre Sales Technical Support.)

PHOTOMETRICS



2HBG-632
 (2) Electronic Ballasts
 (6) F32T8/TL835 lamps
 3000 lumens
 Spacing criterion:
 (II) 1.2 x mounting height, (L) 1.4 x mounting height
 Efficiency 83.4%
 Test Report:
 2HBG632.IES
 LER =81
 Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = \$2.98

Angle	Along II	45°	Across ⊥
0	4712	4712	4712
5	4701	4666	4675
10	4637	4691	4905
15	4529	4898	5448
20	4377	5225	5702
25	4182	5345	5543
30	3940	5249	4951
35	3658	4835	4926
40	3341	4206	3576
45	2991	3554	3029
50	2615	2865	2759
55	2217	2323	2430
60	1804	1996	2234
65	1389	1644	2248
70	990	1495	1993
75	626	1286	1567
80	319	832	740
85	85	172	81
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance																		
	80%		70%		50%		20%												
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																			
0	99	99	99	99	97	97	97	97	93	93	93	89	89	89	85	85	85	83	
1	91	87	83	80	88	85	82	79	81	79	76	78	76	74	75	73	72	70	
2	82	76	70	65	80	74	69	64	71	67	63	68	65	61	66	63	60	58	
3	75	66	59	54	73	65	59	54	62	57	53	60	56	52	58	54	51	49	
4	69	59	51	46	67	58	51	45	56	50	45	54	48	44	52	47	44	42	
5	63	53	45	39	62	52	45	39	50	44	39	48	43	38	47	42	38	36	
6	58	47	40	34	57	47	39	34	45	39	34	44	38	34	42	37	33	32	
7	54	43	36	30	53	42	35	30	41	35	30	40	34	30	39	33	30	28	
8	50	39	32	27	49	39	32	27	37	31	27	36	31	27	35	30	27	25	
9	47	36	29	24	46	35	29	24	34	28	24	34	28	24	33	28	24	22	
10	44	33	26	22	43	33	26	22	32	26	22	31	26	22	30	25	22	20	

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	4174	23.2	27.8
0-40	6937	38.5	46.2
0-60	11814	65.6	78.7
0-90	15014	83.4	91.5
0-180	15014	83.4	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	39	45	30	39
30 x 30	32	36	24	27
30 x 60	31	33	24	23
60 x 30	33	36	28	31
60 x 60	31	31	28	25

ORDERING INFORMATION

SAMPLE NUMBER: 2HBG-654T5-A-UNV-EBT2-U

<p>Width 2=24"</p> <p>Series HB=High Bay</p> <p>Trim Type G=Grid/Lay-in (Standard) F=Flange Trim</p> <p>No. of Lamps 6=6 Lamps 4=4 Lamps</p> <p>Lamp Type 32=32W T8 Lamps (48") 28T5=28W T5 Lamps (48") 54T5=T5HO Lamps (48")</p> <p>Distribution Optic Blank=Aisle G=General</p>	<p>Downlight Optic Blank=Open A=Prismatic Acrylic Lens & Aluminum Doorframe CL=Clear Acrylic Lens & Aluminum Doorframe</p> <p>Voltage⁽¹⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage (T5 linear only) 120V=120 Volt 277V=277 Volt 347V=347 Volt</p> <p>Options GL=Single Element Fuse GM=Double Element Fuse Lamps=Lamps Installed Emergency (T8 only)=EM Installed⁽²⁾</p>
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<p>Ballast Type⁽¹⁾ EB8=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB8=T8 Electronic Instant Start. Total Harmonic Distortion < 20% No. of Ballast 1, 2 or 3 EB8/PLUS=T8 Electronic Instant Start. High Ballast Factor >1.13. Total Harmonic Distortion < 20% No. of Ballast 1, 2 or 3 TEB8=T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EBT=T5 Linear Electronic Program Rapid Start. Total Harmonic Distortion < 10% No. of Ballast 1 or 2</p>	<p>Options RIF1=Radio Interference Suppressor 2/RIF1=Two Suppressors (See options & accessories)</p> <p>Packaging U=Unit Pack PAL=Job Pack, out of carton PALC=Job Pack, in carton</p>
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NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING INFORMATION

Catalog No.	Wt.
2HBG-632	42 lbs.
2HBG-654	42 lbs.