



ENERGETIC
LIGHTING

Project:	Catalog #:	Type:
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Prepared by:	Notes:	Date:
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E2HBC

LED Low-Profile Round Highbay
Available occupancy sensor
Classic reflector option • 10-yr Warranty



OVERVIEW

Energetic Lighting's E2HBC series LED commercial low-profile highbay fixture provides a quick and easy solution for warehouse and industrial applications. The low-profile height allows for efficient packaging, as well as accommodating applications where a low drop height fixture is desirable. With input wattages of 100W, 150W, and 200W, this fixture is designed to replace traditional 250W to 400W HID equivalent highbay fixtures. Fully sealed construction allows for wet location installation where direct contact with water is necessary. An optional transparent diffuser is available if a classic bell housing style is desired (only available on 200W larger housing profile). Emergency battery backup is available with a piggy-back hanging system. Optional bluetooth dimming control system is available for setting up schedules and grouping control. Occupancy sensor is also available as an externally-mounted sensor. Light output is dimmable through standard 0-10v system control leads. Constructed out of heavy duty cast aluminum with an integrated thermally efficient heatsink profile, each fixture is rated for a minimum L70 of 50,000 hours.

KEY FEATURES

- Compact low-profile design, only a 7.5 inch drop
- All configurations are DLC 5.1 Premium listed
- 135+ LPW provides 40-60% in energy savings vs. traditional HID equivalent fixtures
- Light efficient polymer diffusing lens for even illumination
- Emergency battery backup system available
- Occupancy sensor options available
- Bluetooth control option available for wireless grouping and system scheduling
- 120-277V drivers with 0-10v dimming standard
- 89% lumen maintenance @ 50,000 hours – L89/50,000 (per IES TM21)
- Projected L70 @ 161,000 hours for 100W and 150W models, and L70 @ 157,000 hours for 200W model for maintenance free illumination (per IES TM21)



Highlights



1/2" Female threading, interchangeable hook mount with supplementary safety cable (included)



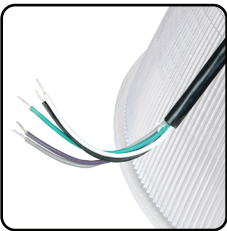
Optional emergency battery backup piggy-back chain hook system (sold separately)



Optional traditional frosted bell housing (only on 200W model)



Fully sealed water-tight housing suitable for wet location installation



Provided with 6-foot input cord, 5-circuit leads for power and dimming

Load Information

Input Voltage	120-277Vac	
Power Factor	0.9	
THD	20%	
Low Temp Start	-20°C (-4°F)	
Max Temp	50°C (122°F)	
Unit Weight	100W & 150W	7.9 LBS
	200W	12.5 LBS

Shipping Information

Item	Weight	Box Qty.
100W & 150W	8.5 lbs	1 per
200W	10 lbs	1 per

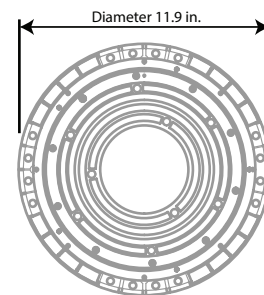
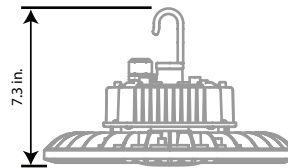
Lumen Maintenance

Model Series	Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Theoretical L70 (hours)
100W & 150W	25°C	>89%	161,000
200W	25°C	>89%	157,000

Dimensions

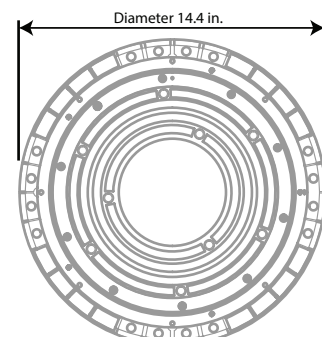
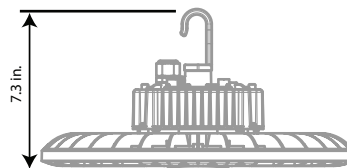
100W and 150W models:

E2HBC-100-840, E2HBC-100-850,
E2HBC-150-840, E2HBC-150-850,
E2HBC-100T-840, E2HBC-100T-850,
E2HBC-150T-840, E2HBC-150T-850,



200W models:

E2HBC-200-840, E2HBC-200-850
E2HBC-200T-840, E2HBC-200T-850



STOCK ORDERING INFORMATION

Base Fixture

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E2HBC-100-840	80080	13500	100 W	135	4000K	>80	120-277	0-10v	DLC-5.1P	90
E2HBC-100-850	80110	13500	100 W	135	5000K	>80	120-277	0-10v	DLC-5.1P	90
E2HBC-150-840	80081	20300	150 W	135	4000K	>80	120-277	0-10v	DLC-5.1P	90
E2HBC-150-850	80111	20300	150 W	135	5000K	>80	120-277	0-10v	DLC-5.1P	90
E2HBC-200-840	80082	27000	200 W	135	4000K	>80	120-277	0-10v	DLC-5.1P	56
E2HBC-200-850	80112	27000	200 W	135	5000K	>80	120-277	0-10v	DLC-5.1P	56

with Bluetooth Connectivity

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E2HBC-100T-840	80092	13500	100 W	135	4000K	>80	120-277	0-10v	TBA	90
E2HBC-100T-850	80093	13500	100 W	135	5000K	>80	120-277	0-10v	TBA	90
E2HBC-150T-840	80094	20300	150 W	135	4000K	>80	120-277	0-10v	TBA	90
E2HBC-150T-850	80095	20300	150 W	135	5000K	>80	120-277	0-10v	TBA	56
E2HBC-200T-840	80096	27000	200 W	135	4000K	>80	120-277	0-10v	TBA	56
E2HBC-200T-850	80097	27000	200 W	135	5000K	>80	120-277	0-10v	TBA	56

with Occupancy Sensor

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E2HBC-100M-840	80083	13500	100 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-100M-850	80113	13500	100 W	135	5000K	>80	120-277	0-10v	TBA	TBA
E2HBC-150M-840	80084	20300	150 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-150M-850	80114	20300	150 W	135	5000K	>80	120-277	0-10v	TBA	TBA
E2HBC-200M-840	80085	27000	200 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-200M-850	80115	27000	200 W	135	5000K	>80	120-277	0-10v	TBA	TBA

with Emergency Battery Backup System

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E2HBC-100E-840	80086	13500	100 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-100E-850	80116	13500	100 W	135	5000K	>80	120-277	0-10v	TBA	TBA
E2HBC-150E-840	80087	20300	150 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-150E-850	80117	20300	150 W	135	5000K	>80	120-277	0-10v	TBA	TBA
E2HBC-200E-840	80088	27000	200 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-200E-850	80118	27000	200 W	135	5000K	>80	120-277	0-10v	TBA	TBA

with Occupancy Sensor & Emergency Battery Backup System

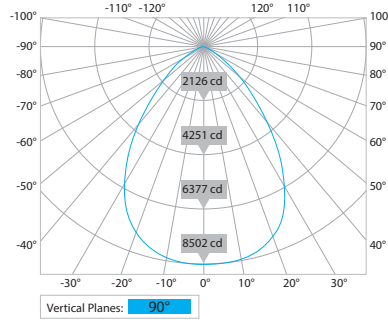
Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E2HBC-100ME-840	80089	13500	100 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-100ME-850	80119	13500	100 W	135	5000K	>80	120-277	0-10v	TBA	TBA
E2HBC-150ME-840	80090	20300	150 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-150ME-850	80120	20300	150 W	135	5000K	>80	120-277	0-10v	TBA	TBA
E2HBC-200ME-840	80091	27000	200 W	135	4000K	>80	120-277	0-10v	TBA	TBA
E2HBC-200ME-850	80121	27000	200 W	135	5000K	>80	120-277	0-10v	TBA	TBA

Options and Accessories

Catalog Logic	Order #	Description
E1HBACC-TREF	80060	Translucent reflector diffuser
E1HBACC-ALREF	80079	Aluminum reflector diffuser
E2HBC-WG	80098	Wireguard
E1ACC-EMNS-1	98005	Emergency battery backup system

PHOTOMETRIC DATA

Cat Logic: E2HBC100-840
 Applicable: E2HBC100[T,M,ME]-840
 Models: E2HBC100[T,M,ME]-850
 Test Report: E2HBC100-840.ies
 CCT: 4000K
 Lamp Type: LED
 Lumens: 14056 LM
 Input Watts: 100.27 W
 Efficacy: 140 LM/W
 Spacing Criteria: [0° : 1.14] [90° : 1.12]

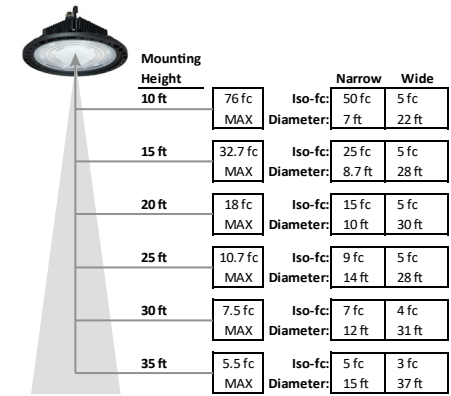
Polar Candela Plot

Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	477.63	12.3
0-30	1010.65	26.1
0-40	1649.67	42.6
0-60	2927.01	75.6
0-80	3767.47	97.4
0-90	3868.35	100
0-180	3869.58	100

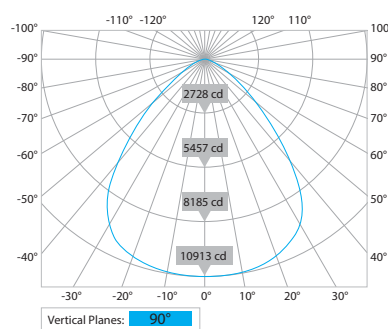
Coefficients of Utilization

Effective Floor Cavity Reflectance 0.20

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90	
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	72	71	
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63	
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57	
6	79	67	60	55	77	67	59	54	65	59	54	63	58	53	62	57	53	51	
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47	
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36	

Isofootcandle Sampling

PHOTOMETRIC DATA

Cat Logic: E2HBC150-840
 Applicable: E2HBC150[T,M,ME]-840
 Models: E2HBC150[T,M,ME]-850
 Test Report: E2HBC150-840.ies
 CCT: 4000K
 Lamp Type: LED
 Lumens: 20888 LM
 Input Watts: 152.01 W
 Efficacy: 137 LM/W
 Spacing Criteria: [0° : 1.28] [90° : 1.24]

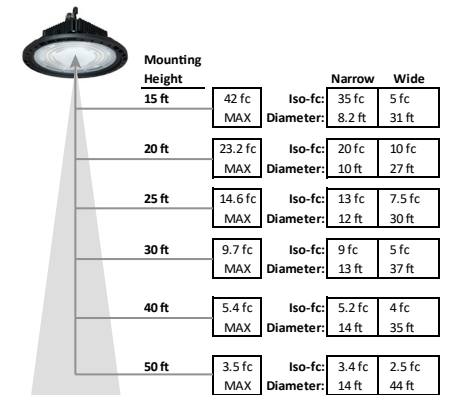
Polar Candela Plot

Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	4063.99	19.5
0-30	8709.23	41.7
0-40	13858.44	66.3
0-60	19578.36	93.7
0-80	20822.99	99.7
0-90	20869.83	99.9
0-180	20888.31	100

Coefficients of Utilization

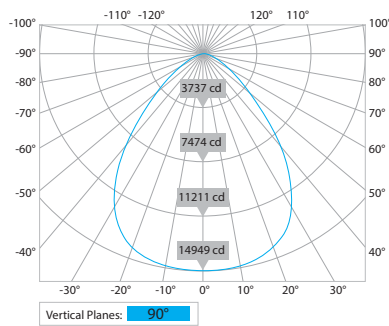
Effective Floor Cavity Reflectance 0.20

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	57	56	
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50	
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41	
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37	
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34	

Isofootcandle Sampling


PHOTOMETRIC DATA

Cat Logic: E2HBC200-840
 Applicable: E2HBC200[T,M,ME]-840
 Models: E2HBC200[T,M,ME]-850
 Test Report: E2HBC200-840.ies
 CCT: 4000K
 Lamp Type: LED
 Lumens: 27390 LM
 Input Watts: 200.7 W
 Efficacy: 136 LM/W
 Spacing Criteria: [0° : 1.22] [90° : 1.24]

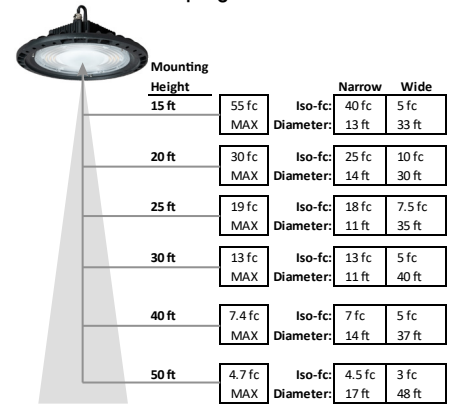
Polar Candela Plot

Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	5546.15	20.2
0-30	11741.13	42.9
0-40	18299.84	66.8
0-60	25583.55	93.4
0-80	27284.72	99.6
0-90	27365.35	99.9
0-180	27389.74	100

Coefficients of Utilization

Effective Floor Cavity Reflectance 0.20

rc	80%				70%				50%			30%			10%			0%
	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	40	38
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

Isofootcandle Sampling




ENERGETIC
L I G H T I N G

E2HBC

LED Low-Profile Round Highbay
50,000 System Lifetime • 10-yr Warranty

NOTES:

A large, empty rectangular box with a blue border, intended for user notes or specifications.



NOTES:

Empty rectangular box for notes.