

LHBC Narrow Distribution

LED - Commercial-Grade High or Low Bay Luminaire

Project:	Catalogue:	Type:
Notes:		

Product Description

The LHBC Narrow provides a 30 degree distribution angle for applications requiring narrow illumination. Thermally designed for high bay applications, this LED fixture is available in multiple lumen packages and various mounting options. Optional wire guard is available for those demanding areas where impact from objects is possible. Operating ambient temperature range as low as -30°C to as high as 55°C on most models (see delivered lumens tables).

Applications

Manufacturing areas, Retail stores and supermarkets, Warehouse and distribution (not for freezers and areas of high humidity or condensation)

Features

- Narrow distribution 30 degree optic
- Configurations exceeding 168 lm/W
- Energy savings
- As low as -30°C to as high as 55°C ambient temperature on most models (see delivered lumens tables)
- Various sizes
- 80+ CRI standard
- Standard low voltage dimming (0-10v)

Featured Options

- Adjustable cable suspension
- Emergency lighting battery pack
- Motion sensor
- Wireguard
- Lenses, see product selection

Mounting

This luminaire is specifically designed for suspended mount applications, including stem, chain & adjustable aircraft cable. Mounting kits available (ordered separately).

Construction

CNC fabricated, code gauge steel housing and ends, with integral ventilation slots and heat sinks.

Finish

White, pre-painted housing.

Electrical

CSA/UL approved electronic components. Long life LEDs coupled with high efficiency drivers, provide quality illumination. Rated to deliver L80 performance for 60,000 hours at 40°C ambient temperature.

Warranty

5 year limited warranty. For complete warranty, click here:

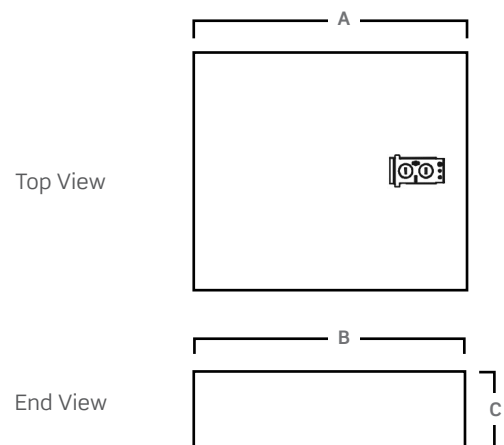


Approvals

- Approved to CSA and UL standards.
- Tested in accordance to IESNA LM-79.
- Suitable for damp locations.



Dimensions



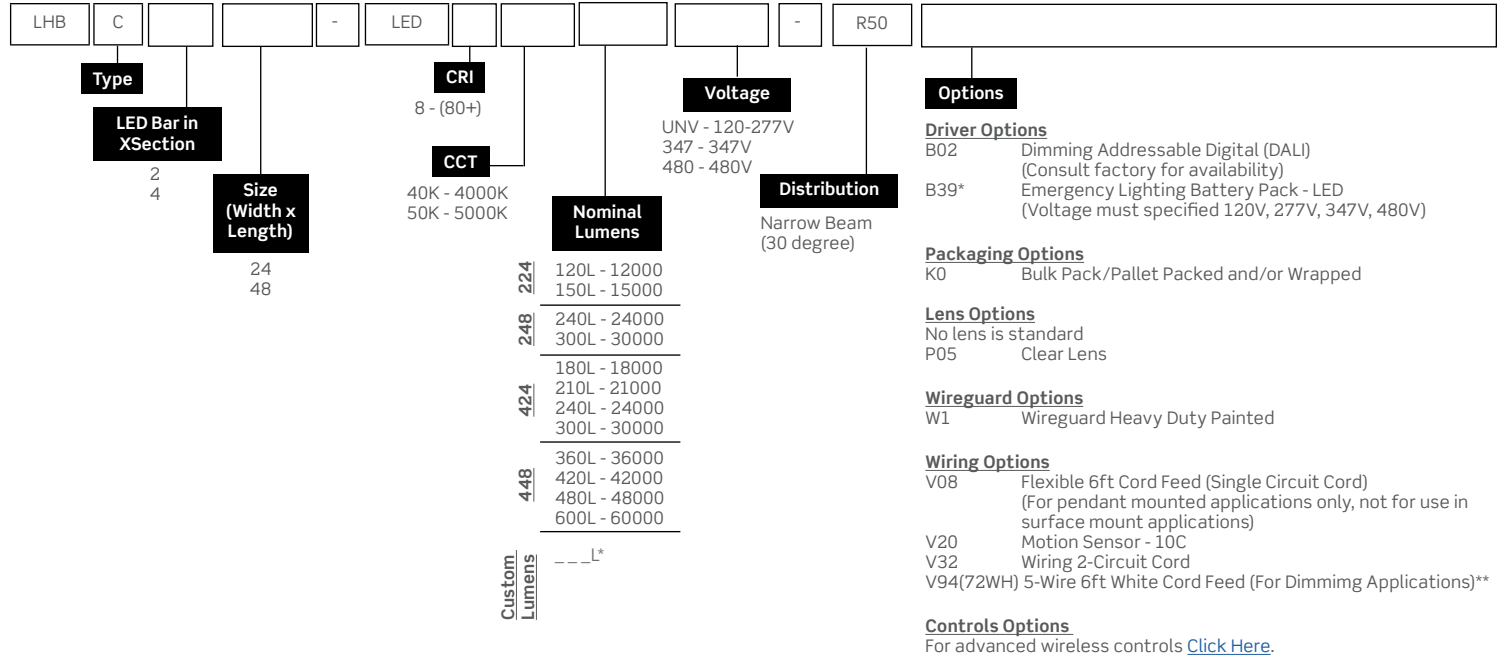
Size	A	B	C
224	24"	16"	3"
248	48"	16"	3"
424	24"	24"	3"
448	48"	24"	3"

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: HBC248-LED840K240LUNVR50



*If fixture is to be switched a 2 circuit cord V32 is advised.
**Other finishes and cord lengths may be available, consult factory.

Other options may be available, consult factory. Specifications and data subject to change without notice.

*Custom Lumens		
Size	Nominal Lumens Range	Watts
224	6000 - 18000	43 - 126
248	12000 - 35000	83 - 280
424	12000 - 32000	95 - 203
448	24000 - 60000	165 - 412

*28000Lm Example:
LHBC424-LED840K280LUNV

Lens, Frame & Wireguard Accessories (If needed to be ordered separately)				
	224	248	424	448
P05 - Clear Lens	KIT00032	KIT00033	KIT00099	KIT00100
W1 - Wireguard Heavy Duty Painted	KIT00038	KIT00039	KIT00105	KIT00106

Mounted Accessories (Ordered Separately)	
KIT00002	Speedy Hangers
KIT00003	Mounting Stems & Canopy Set 3/8"IP (2) 4ft.
KIT00004	Aircraft "Y" Cable (10ft) with Adjustable Grip (2)
KIT00016	Deck Plate Ribbed Square
KIT00021	Speedy Hangers with 48-in. Chain Set (2)
KIT00062-(3/4)	Mounting for 3/4-in. Threaded pipe (Stem not Included)
KIT00062-(1/2)	Mounting for 1/2-in. Threaded pipe (Stem not Included)
KIT00062-(3/8)	Mounting for 3/8-in. Threaded pipe (Stem not Included)

Performance Scaling Factor

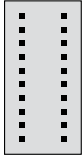
	50K	40K	35K	30K
80CRI	1.000	1.000	0.960	0.946
90CRI	0.875	0.875	0.836	0.809

Lifetime Expectancy

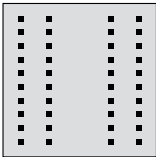
	Calculated Hours	Reported Hours
L70	≥238,000	>60,000
L80	≥149,000	>60,000
L90	≥71,000	>60,000

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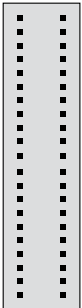
Performance Data



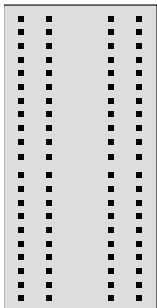
LED Performance Data									
Size	Nominal Lumens	Delivered Lumens 4000K 80CRI*						Watts	Ambient Rating (°C)
		No Lens	No Lens lm/W	P73 Lens	P73 Lens lm/W	P05 Lens	P05 Lens lm/W		
224	120L	12023	159.5	10562	142	11521	155	75.4	55
	150L	15119	155.7	13491	137	14778	151	97.1	53



LED Performance Data									
Size	Nominal Lumens	Delivered Lumens 4000K 80CRI*						Watts	Ambient Rating (°C)
		No Lens	No Lens lm/W	P73 Lens	P73 Lens lm/W	P05 Lens	P05 Lens lm/W		
424	180L	18034	159.5	16051	137	17358	148	113	55
	210L	21065	157	18782	135	20244	147	134.2	55
	240L	24045	159.5	21417	143	23051	154	150.7	55
	300L	30239	155.7	27256	134	29387	144	194.2	55



LED Performance Data									
Size	Nominal Lumens	Delivered Lumens 4000K 80CRI*						Watts	Ambient Rating (°C)
		No Lens	No Lens lm/W	P73 Lens	P73 Lens lm/W	P05 Lens	P05 Lens lm/W		
248	240L	24045	159.5	21386	143	23157	154	150.7	55
	300L	30239	156.0	27173	135	29392	145	194.2	55



LED Performance Data									
Size	Nominal Lumens	Delivered Lumens 4000K 80CRI*						Watts	Ambient Rating (°C)
		No Lens	No Lens lm/W	P73 Lens	P73 Lens lm/W	P05 Lens	P05 Lens lm/W		
448	360L	36068	159.5	32391	138	35093	150	226.1	55
	420L	42592	156.8	37539	135	40786	147	271.6	55
	480L	48090	159.5	43159	138	46653	150	301.5	55
	600L	62313	155.2	54962	134	59490	145	401.5	55

* Lumens/Watt and wattage is based on 25°C

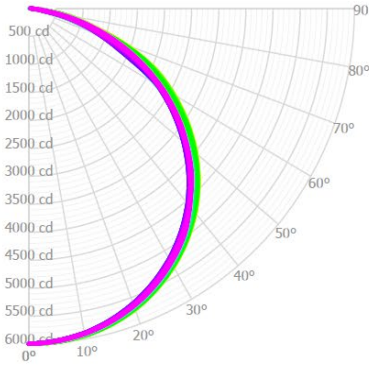
LHBC Narrow Distribution

LED - Commercial-Grade High or Low Bay Luminaire

Project:	Catalogue:	Type:
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Photometrics

IES File: **LHBC424-LED840K180LUNV**
 Lumens: **17965**
 Wattage: **118.2**
 Efficacy: **152**



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	4739	26.4%
0.0° - 40.0°	7854	43.7%
0.0° - 60.0°	14170	78.9%
0.0° - 90.0°	17704	98.6%

Average Luminance Table (cd/m²) CP Summary

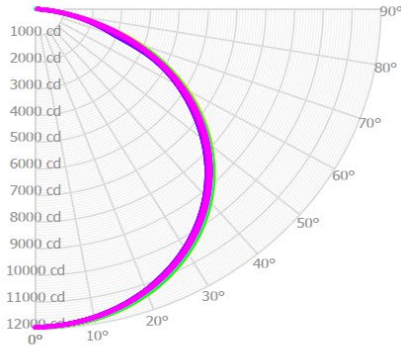
	0.00°	45.00°	90.00°
0.00°	16463	16463	16463
45.00°	16557	17105	17165
55.00°	16072	16870	17089
65.00°	14933	16010	16512
75.00°	11944	12792	12579
85.00°	4481	6934	5121

Coefficients of Utilization

pc	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	70%	50%	30%
pw 0	119	119	119	116	116	116	110	110	110
1	109	104	100	106	102	98	101	97	94
2	99	91	84	96	89	82	91	85	80
3	90	80	71	87	78	70	83	75	68
4	82	70	62	80	69	61	75	66	59
5	76	63	54	73	62	53	69	59	52
6	70	56	47	68	55	47	64	53	46
7	65	51	42	63	50	42	59	48	41
8	60	46	38	58	46	38	55	44	37
9	56	43	34	55	42	34	52	41	33
10	53	39	31	51	39	31	49	38	31

Effective Floor Cavity Reflectance: 20%

IES File: **LHBC448-LED840K360LUNV**
 Lumens: **36486**
 Wattage: **234**
 Efficacy: **156**



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	9448	25.9%
0.0° - 40.0°	15671	43.0%
0.0° - 60.0°	28463	78.0%
0.0° - 90.0°	36027	98.7%

Average Luminance Table (cd/m²) CP Summary

	0.00°	45.00°	90.00°
0.00°	16239	16239	16239
45.00°	16607	16812	16788
55.00°	16466	16757	16601
65.00°	15643	16110	15741
75.00°	12976	12501	11277
85.00°	5738	4942	3492

Coefficients of Utilization

pc	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	70%	50%	30%
pw 0	119	119	119	116	116	116	110	110	110
1	109	104	100	106	101	98	100	97	94
2	99	90	83	96	88	82	91	85	79
3	90	79	71	87	77	70	82	74	68
4	82	70	61	80	68	60	75	66	59
5	75	62	53	73	61	53	69	59	51
6	69	56	47	67	55	46	64	53	45
7	64	51	42	62	50	41	59	48	40
8	60	46	37	58	45	37	55	44	36
9	56	42	34	54	42	34	52	40	33
10	52	39	31	51	38	31	48	37	30

Effective Floor Cavity Reflectance: 20%