

DESCRIPTION

The HBL series is ideal for high mounting height industrial or retail applications. Advanced optical designs provide maximum performance from either T5 or T8 lamps. Optional upright component produces excellent ceiling uniformity. HBL's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. 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. Typical HBL applications include retail, shopping malls, light industrial and recreational environments.

SPECIFICATION FEATURES

Construction

Channel and end plates are constructed of die formed steel. The channel provides strength, numerous KOs for easy installation, and excellent thermal dissipation without any special or proprietary components. Stiffening brackets add additional strength and rigidity to channel and reflectors.

Electrical

The HBL comes with a standard Class "P" electronic ballast and twist-lock lampholders. UL/cUL listed for high ambient environments up to 55°C (131°F) for all lamp and ballast combinations listed. Suitable for damp locations.

Finish

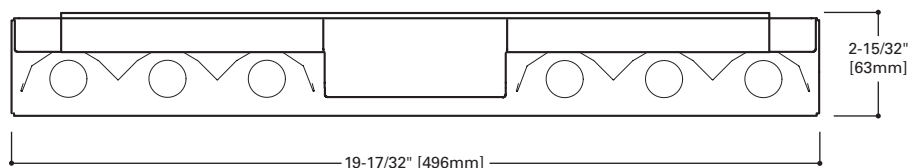
Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

Optics

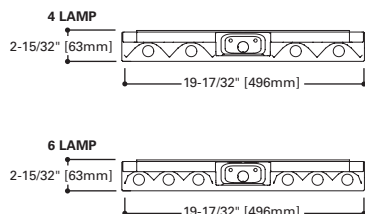
Die formed, segmented optical design optimizes performance across three distributions. Optical choices include a narrow distribution for aisles, medium distribution for assembly and loading areas, or wide distribution for general, open area lighting. An upright option is offered to permit ceiling uniformity and allow for ample lamp and luminaire heat dissipation.

Warranty

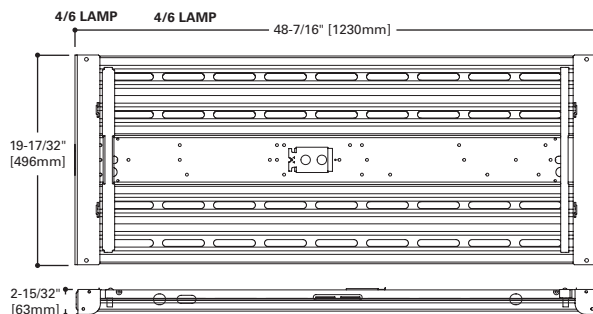
When operated in high ambient conditions, the HBL is supported by a 5 yr/55°C and 3 yr/65°C ballast warranty for T5 and T8 (277V) options when used w/ high temperature ballast in open, upright configurations. To maximize your warranty, the HBL should be ordered with a high-temperature ballast in ambient environments that typically exceed 40°C (102°F).



LAMP CONFIGURATIONS



DIMENSION TOP VIEW



HBL SERIES

4 OR 6 T8 LAMPS

High-Bay Industrial Open Luminaire



ENERGY DATA

Input Watts:
EB Ballast and STD Lamps
 432=109
 632=167

Luminaire Efficacy Rating
LER = 88 (White)
LER = 90 (Specular Inserts)
Catalog Number: HBL-632-UPL

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$2.67

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

**Consult Pre Sales Technical Support.

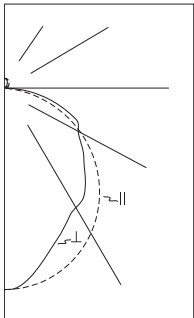
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT

Safe and convenient means of disconnecting power.

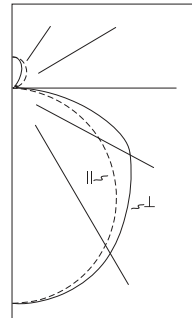
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PHOTOMETRICS



HBL-632-N-UPL
Narrow Distribution
 (2) Electronic Plus
 Ballasts
 (6) F32/T8/TL835 32W
 T8 lamps, 3100 lumens
 Spacing criterion:
 (II) 1.3 x mounting
 height, (⊥) 1.0 x
 mounting height
 Efficiency 95.9%
 Test Report:
 HBL632NUPL.IES
 LER =90
 Yearly Cost of 1000
 lumens, 3000 hrs at
 .08 KWH = \$2.67

Candela				
Angle	Along II	45°	Across ⊥	
0	6445	6445	6445	
5	6418	6359	6322	
10	6339	6092	5913	
15	6200	5715	5455	
20	6008	5300	5075	
25	5761	4910	4736	
30	5464	4549	4478	
35	5119	4178	4363	
40	4731	3898	4043	
45	4302	3674	3636	
50	3840	3287	3321	
55	3346	2841	2987	
60	2827	2482	2737	
65	2286	2118	2614	
70	1732	1892	2148	
75	1179	1543	1622	
80	654	1018	1094	
85	201	522	592	
90	3	117	182	



HBL-632-W-UNV-EB82-UPL
Wide Distribution
 (2) Electronic Plus
 Ballasts
 (6) F32T8/835 32WT8
 lamps, 3100 lumens
 Spacing criterion:
 (II) 1.3 x mounting
 height, (⊥) 1.3 x
 mounting height
 Efficiency 90.5%
 Test Report:
 HBL632WUPL.IES
 LER =88
 Yearly Cost of 1000
 lumens, 3000 hrs at
 .08 KWH = \$2.73

Candela				
Angle	Along II	45°	Across ⊥	
0	4685	4685	4685	
5	4663	4674	4692	
10	4608	4631	4654	
15	4512	4555	4594	
20	4380	4446	4503	
25	4209	4303	4374	
30	4000	4121	4203	
35	3762	3909	4000	
40	3492	3658	3774	
45	3195	3377	3562	
50	2870	3081	3354	
55	2527	2785	3150	
60	2165	2500	2962	
65	1781	2230	2707	
70	1384	1985	2246	
75	975	1569	1685	
80	569	1025	1107	
85	200	500	566	
90	3	111	177	

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance												20%											
	80%				70%				50%				30%				10%				0%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	113	113	113	113	110	110	110	110	104	104	104	99	99	99	94	94	94	92						
1	103	98	93	89	100	95	91	88	90	87	84	86	83	81	82	80	78	75						
2	93	85	78	72	90	82	76	71	78	73	69	75	70	66	71	68	64	62						
3	85	74	66	60	82	72	65	59	69	62	57	66	60	56	63	58	54	52						
4	77	66	57	50	75	64	56	50	61	54	49	58	52	47	56	51	46	44						
5	71	58	50	43	69	57	49	43	55	47	42	52	46	41	50	45	40	38						
6	66	53	44	38	64	52	43	37	49	42	37	47	41	36	45	40	35	33						
7	61	48	39	33	59	47	39	33	45	38	33	43	37	32	42	36	31	29						
8	57	44	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	26						
9	53	40	32	27	51	39	32	27	38	31	26	37	30	26	35	30	26	24						
10	50	37	29	24	48	36	29	24	35	28	24	34	28	24	33	27	23	22						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	4562	24.5	25.6
0-40	7330	39.4	41.1
0-60	12827	69.0	71.9
0-90	17094	91.9	95.8
0-180	17837	95.9	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	10283	8782	8691
55	9860	8372	8802
65	9142	8470	10454
75	7699	10076	10592
85	3898	10123	11480

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance												20%											
	80%				70%				50%				30%				10%				0%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	106	106	106	106	103	103	103	103	97	97	97	91	91	91	86	86	86	83						
1	96	91	87	83	93	88	84	81	83	80	77	78	76	73	74	72	70	68						
2	86	78	72	66	83	76	70	65	72	67	62	68	63	60	64	60	57	55						
3	78	68	60	54	75	66	59	53	62	56	51	59	54	50	56	52	48	46						
4	71	60	52	45	69	58	51	45	55	49	43	52	47	42	49	45	41	38						
5	65	53	45	39	63	52	44	38	49	42	37	47	41	36	44	39	35	33						
6	60	48	40	34	58	47	39	33	44	37	32	42	36	31	40	35	31	28						
7	56	43	35	29	54	42	34	29	40	33	28	38	32	28	36	31	27	25						
8	52	39	31	26	50	38	31	26	37	30	25	35	29	25	33	28	24	22						
9	48	36	28	23	47	35	28	23	34	27	23	32	26	22	31	25	22	20						
10	45	33	26	21	44	32	26	21	31	25	20	30	24	20	28	23	20	18						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	3714	20.0	22.1
0-40	6154	33.1	36.6
0-60	11290	60.7	67.1
0-90	15508	83.4	92.1
0-180	16834	90.5	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	7432	7855	8286
55	7247	7987	9033
65	6932	8679	10536
75	6196	9971	10708
85	3774	9436	10682

Modular F-Bay Power Supply Option

Cooper Lighting's F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time-saver in installation – **simply plug & power.**



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

No internal fixture access required for installation or disconnecting power

Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap

ORDERING INFORMATION

SAMPLE NUMBER: HBL-632-N-UNV-EB82-UPL-U

Includes V Hangers for rapid installation⁽⁶⁾

Width Blank=20" wide 4 & 6 Lamp (nominal)	Voltage⁽¹⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage ⁽⁷⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt	Ballast Type⁽⁴⁾ T8 Systems EB8 =T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB8 /PLUS =T8 Electronic Instant Start. ⁽⁷⁾ High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 =T8 Electronic Program Rapid Start. ⁽⁵⁾ Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 /PLUS =T8 Electronic Program Start. ⁽⁵⁾ High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3	Options Lamps Installed L8835 =T8 Lamp, 85CRI 3500K L8841 =T8 Lamp, 85CRI 4100K L8850 =T8 Lamp, 85CRI 5000K HL =Add HL at end of lamp for high lumen lamps, T8 only GL =Single Element Fuse GM =Double Element Fuse EL =Emergency Installed	Options UPL =Uplight Apertures on Reflector MP =Modular Power Receptacle (Used for all Cord or Cord and Plug options) ^{(2), (8)} MWS =Modular Wiring System ⁽³⁾ MS =360° or 180° Motion Sensor installed (120V through 347V, or 480V) ⁽¹¹⁾	Packaging U =Unit Pack PALC =Palletized In Carton
Series HBL=Linear High Bay	Options Lamps Installed L8835 =T8 Lamp, 85CRI 3500K L8841 =T8 Lamp, 85CRI 4100K L8850 =T8 Lamp, 85CRI 5000K HL =Add HL at end of lamp for high lumen lamps, T8 only GL =Single Element Fuse GM =Double Element Fuse EL =Emergency Installed			Accessories (order separately) HBL-SPM =Single Monopoint Hanger w/Hub FH-1 =Fixture Hook FL-1 =Fixture Loop Y-TOGGLE =Y Mounting Toggle, #2 Cable (Specify 10' or 30') HBAYC-CHAIN/SET/U =(2) V-Hook Hanger, 36" Chain Sets w/S-Hooks MC3 =3' Modular Power Cord MPC3 =3' Modular Power Cord & Plug (Specify Voltage) MC6 =6' Modular Power Cord MPC6 =6' Modular Power Cord & Plug (Specify Voltage) MMS =360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) ⁽²⁾ MDS6 =6' Modular Power Cord with MWS 27DS18/2G06MP Connector ⁽⁸⁾ WG/HBL6-4FT-B =4/6 Lamp Wireguard w/Clips	
No. of Lamps 4=4 Lamps 6=6 Lamps					
Lamp Type 32=32W T8 Lamp (48" Long)					
Distribution N=Narrow Beam (Standard) M=Medium Beam W=Wide Beam					

NOTES: ⁽¹⁾Voltage must be specified when ordered with plugs or emergency ballasts. For MS option, indicate UNV (for 120V or 277V), 347V or 480V.
⁽²⁾Requires use of MC_ or MPC_ cord accessories, specify voltage for plugs. ⁽³⁾Cannot be combined with Modular Power Receptacle (MP). ⁽⁴⁾T8 ballast systems suitable for operation in ambient environments up to 131°F (55°C) in upright configuration. ⁽⁵⁾Recommended when using motion sensor options.
⁽⁶⁾Can be used in high abuse applications such as gymnasiums. ⁽⁷⁾2/3 lamp ballast configuration in EB8/PLUS only for UNC version. ⁽⁸⁾For MWS with MP, choose MP in fixture logic and then choose MWS accessory such as MDS6.

QUICK SHIP ORDERING INFORMATION



Quick Ship Ordering Information Sample Number: HBL432-MP-UPL-L5

Includes V Hangers for rapid installation⁽⁶⁾

Quick Ship orders ship in 5 days in order quantities not to exceed 200 pieces.

NOTE: Orders received after noon are entered on the following day.

Family HBL	Lamp Type 32=32W T8 Lamps (48")	Ballast Type T8 Systems⁽⁴⁾ Blank =(1) or (2) 120/277V T8 Instant Start Electronic, 1.15 BF PS =(1) or (2) 120/277V T8 Electronic Program Rapid Start, 1.15 BF ⁽⁷⁾	Power Receptacle MP=Modular Power Receptacle ⁽⁸⁾	Uplight Blank=No Uplight UPL=Uplight	Lamping Blank=No Lamps L4=Lamps Installed 85+CRI 4100K L5=Lamps Installed 85+CRI 5000K L5HL=Lamps Installed 85+CRI 5000K, High Lumen ⁽⁹⁾
No. of Lamps 4=4 Lamps 6=6 Lamps	Distribution Blank=Narrow Beam W=Wide Beam				

NOTES: ⁽⁷⁾Recommended when using motion sensor options. ⁽⁸⁾Requires use of Modular cord and plug accessories. ⁽⁹⁾L5HL (3000 initial) 5000K T8 lamps installed.

SHIPPING DATA

Catalog No.	Wt.
HBL-432-UNV-UPL	13.5 lbs.
HBL-632-UNV-UPL	15 lbs.

DESCRIPTION

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Finish

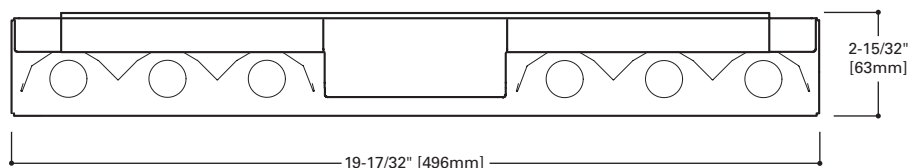
Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

Optics

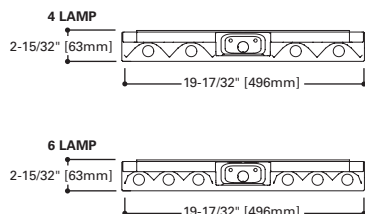
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Warranty

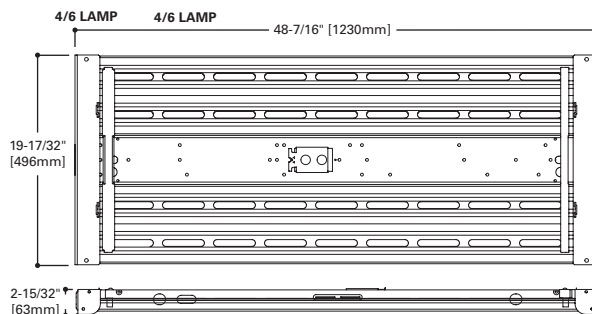
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LAMP CONFIGURATIONS



DIMENSION TOP VIEW



HBL SERIES

4 OR 6 T8 LAMPS

High-Bay Industrial Open Luminaire



ENERGY DATA

Input Watts:
EB Ballast and STD Lamps
432=109
632=167

Luminaire Efficacy Rating
LER = 88 (White)
LER = 90 (Specular Inserts)
Catalog Number: HBL-632-UPL

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$2.67

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

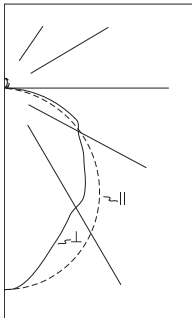
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LINEAR DISCONNECT

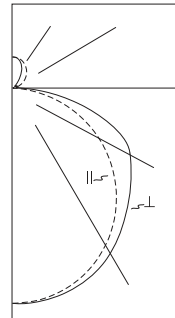
Safe and convenient means of disconnecting power.

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Narrow Distribution
 (2) Electronic Plus
 Ballasts
 (6) F32/T8/TL835 32W
 T8 lamps, 3100 lumens
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HBL-632-W-UNV-EB82-UPL
Wide Distribution
 (2) Electronic Plus
 Ballasts
 (6) F32T8/835 32WT8
 lamps, 3100 lumens
 Spacing criterion:
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 Efficiency 90.5%
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70	1384	1985	2246	
75	975	1569	1685	
80	569	1025	1107	
85	200	500	566	
90	3	111	177	

Coefficients of Utilization

Effective floor cavity reflectance												20%											
rc	80%				70%				50%				30%				10%				0%		
	rw	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																							
0	113	113	113	113	110	110	110	110	104	104	104	99	99	99	94	94	94	92					
1	103	98	93	89	100	95	91	88	90	87	84	86	83	81	82	80	78	75					
2	93	85	78	72	90	82	76	71	78	73	69	75	70	66	71	68	64	62					
3	85	74	66	60	82	72	65	59	69	62	57	66	60	56	63	58	54	52					
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9	53	40	32	27	51	39	32	27	38	31	26	37	30	26	35	30	26	24					
10	50	37	29	24	48	36	29	24	35	28	24	34	28	24	33	27	23	22					

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	4562	24.5	25.6
0-40	7330	39.4	41.1
0-60	12827	69.0	71.9
0-90	17094	91.9	95.8
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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	50	30	10	0			
RCR																								
0	106	106	106	106	103	103	103	103	97	97	97	91	91	91	86	86	86	83						
1	96	91	87	83	93	88	84	81	83	80	77	78	76	73	74	72	70	68						
2	86	78	72	66	83	76	70	65	72	67	62	68	63	60	64	60	57	55						
3	78	68	60	54	75	66	59	53	62	56	51	59	54	50	56	52	48	46						
4	71	60	52	45	69	58	51	45	55	49	43	52	47	42	49	45	41	38						
5	65	53	45	39	63	52	44	38	49	42	37	47	41	36	44	39	35	33						
6	60	48	40	34	58	47	39	33	44	37	32	42	36	31	40	35	31	28						
7	56	43	35	29	54	42	34	29	40	33	28	38	32	28	36	31	27	25						
8	52	39	31	26	50	38	31	26	37	30	25	35	29	25	33	28	24	22						
9	48	36	28	23	47	35	28	23	34	27	23	32	26	22	31	25	22	20						
10	45	33	26	21	44	32	26	21	31	25	20	30	24	20	28	23	20	18						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	3714	20.0	22.1
0-40	6154	33.1	36.6
0-60	11290	60.7	67.1
0-90	15508	83.4	92.1
0-180	16834	90.5	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	7432	7855	8286
55	7247	7987	9033
65	6932	8679	10536
75	6196	9971	10708
85	3774	9436	10682

Modular F-Bay Power Supply Option

Cooper Lighting's F-Bay Modular Power Supply option is available for use with all F-Bay products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with F-Bay Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. F-Bay Modular Power Supply is a time-saver in installation – **simply plug & power.**



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

No internal fixture access required for installation or disconnecting power

Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap

ORDERING INFORMATION

SAMPLE NUMBER: HBL-632-N-UNV-EB82-UPL-U

Includes V Hangers for rapid installation⁽⁶⁾

Width Blank=20" wide 4 & 6 Lamp (nominal)	Voltage⁽¹⁾ UNV=Universal 120/277 Voltage UNC=Universal 347/480 Voltage ⁽⁷⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt	Ballast Type⁽⁴⁾ T8 Systems EB8 =T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB8 /PLUS =T8 Electronic Instant Start. ⁽⁷⁾ High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 =T8 Electronic Program Rapid Start. ⁽⁵⁾ Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 ER8 /PLUS =T8 Electronic Program Start. ⁽⁵⁾ High Ballast Factor >1.15. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3	Options Lamps Installed L8835 =T8 Lamp, 85CRI 3500K L8841 =T8 Lamp, 85CRI 4100K L8850 =T8 Lamp, 85CRI 5000K HL =Add HL at end of lamp for high lumen lamps, T8 only GL =Single Element Fuse GM =Double Element Fuse EL =Emergency Installed	Options UPL =Uplight Apertures on Reflector MP =Modular Power Receptacle (Used for all Cord or Cord and Plug options) ^{(2), (8)} MWS =Modular Wiring System ⁽³⁾ MS =360° or 180° Motion Sensor installed (120V through 347V, or 480V) ⁽¹¹⁾	Packaging U =Unit Pack PALC =Palletized In Carton
Series HBL=Linear High Bay	Options Lamps Installed L8835 =T8 Lamp, 85CRI 3500K L8841 =T8 Lamp, 85CRI 4100K L8850 =T8 Lamp, 85CRI 5000K HL =Add HL at end of lamp for high lumen lamps, T8 only GL =Single Element Fuse GM =Double Element Fuse EL =Emergency Installed			Accessories (order separately) HBL-SPM =Single Monopoint Hanger w/Hub FH-1 =Fixture Hook FL-1 =Fixture Loop Y-TOGGLE =Y Mounting Toggle, #2 Cable (Specify 10' or 30') HBAYC-CHAIN/SET/U =(2) V-Hook Hanger, 36" Chain Sets w/S-Hooks MC3 =3' Modular Power Cord MPC3 =3' Modular Power Cord & Plug (Specify Voltage) MC6 =6' Modular Power Cord MPC6 =6' Modular Power Cord & Plug (Specify Voltage) MMS =360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) ⁽²⁾ MDS6 =6' Modular Power Cord with MWS 27DS18/2G06MP Connector ⁽⁸⁾ WG/HBL6-4FT-B =4/6 Lamp Wireguard w/Clips	
No. of Lamps 4=4 Lamps 6=6 Lamps					
Lamp Type 32=32W T8 Lamp (48" Long)					
Distribution N=Narrow Beam (Standard) M=Medium Beam W=Wide Beam					

NOTES: ⁽¹⁾Voltage must be specified when ordered with plugs or emergency ballasts. For MS option, indicate UNV (for 120V or 277V), 347V or 480V.
⁽²⁾Requires use of MC_ or MPC_ cord accessories, specify voltage for plugs. ⁽³⁾Cannot be combined with Modular Power Receptacle (MP). ⁽⁴⁾T8 ballast systems suitable for operation in ambient environments up to 131°F (55°C) in upright configuration. ⁽⁵⁾Recommended when using motion sensor options.
⁽⁶⁾Can be used in high abuse applications such as gymnasiums. ⁽⁷⁾2/3 lamp ballast configuration in EB8/PLUS only for UNC version. ⁽⁸⁾For MWS with MP, choose MP in fixture logic and then choose MWS accessory such as MDS6.

QUICK SHIP ORDERING INFORMATION



Quick Ship Ordering Information Sample Number: HBL432-MP-UPL-L5

Includes V Hangers for rapid installation⁽⁶⁾

Quick Ship orders ship in 5 days in order quantities not to exceed 200 pieces.

NOTE: Orders received after noon are entered on the following day.

Family HBL	Lamp Type 32=32W T8 Lamps (48")	Ballast Type T8 Systems⁽⁴⁾ Blank =(1) or (2) 120/277V T8 Instant Start Electronic, 1.15 BF PS =(1) or (2) 120/277V T8 Electronic Program Rapid Start, 1.15 BF ⁽⁷⁾	Power Receptacle MP=Modular Power Receptacle ⁽⁸⁾	Uplight Blank=No Uplight UPL=Uplight	Lamping Blank=No Lamps L4=Lamps Installed 85+CRI 4100K L5=Lamps Installed 85+CRI 5000K L5HL=Lamps Installed 85+CRI 5000K, High Lumen ⁽⁹⁾
No. of Lamps 4=4 Lamps 6=6 Lamps	Distribution Blank=Narrow Beam W=Wide Beam				

NOTES: ⁽⁷⁾Recommended when using motion sensor options. ⁽⁸⁾Requires use of Modular cord and plug accessories. ⁽⁹⁾L5HL (3000 initial) 5000K T8 lamps installed.

SHIPPING DATA

Catalog No.	Wt.
HBL-432-UNV-UPL	13.5 lbs.
HBL-632-UNV-UPL	15 lbs.