

FEATURES

- Optical design to provide one-for-one replacement for 400 Watt metal halide high bays
- Advanced Thermal Management (ATM) provides optimized electrical component heat dissipation system for cool running ballast operation in unconditioned ambient spaces, your choice of T8 or T5HO—suspension mounting only
- LHV includes industry leading 5-year warranty at 65°C ambient operation for T5HO and 5-year warranty for T8 at 55°C for 277V and 50°C for 120V.
- Easy center-ballast cover allows tool-less access to electrical components without the removal of lamps, reflectors or hardware.
- Extremely low profile—only 2" overall height allows fixture to be installed without concern about obstructions
- Reflector options include uplight (recommended) or solid top with either narrow or wide distribution
- Product design accommodates quick and simple hanging systems including chain, tong, pipe hanger, or aircraft mounting
- Rotary locking lampholders secure lamp in position and conceal contacts
- Access cover in channel for easy wiring access
- UL listed, suitable for damp locations
- NEC/CEC-compliant ballast disconnect standard (not available with EL option)

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

HEAT DISSIPATION SYSTEM (ATM)

The installation of fluorescent fixtures with temperature sensitive electronic ballasts in unconditioned spaces creates the risk of premature ballast failures unless the fixture is equipped with a heat dissipation system to quickly remove heat that is harmful to ballasts. ATM (Advanced Thermal Management) was exclusively developed for VersaBay to provide the ultimate solution to ballast overheating and thermal issues.

CONSTRUCTION

Code gauge steel construction for a durable construction to withstand shipping and job site handling. End caps include hemmed edges for ease of handling. Fixture includes easy access to electrical components via removal channel cover. Tool-less access with one quarter-turn fastener. Oversized access plate conveniently mounted on back of channel for easy access to wiring compartment.

REFLECTOR

Your choice of multi-faceted specular aluminum which provides precise control for aisle lighting, high mounting heights, white aluminum for general area, or lower mounting heights. Includes a 25-year reflector warranty. Reflectors are available in solid top or with uplight component. Reflectors are securely mounted to fixture housing with screws. Reflector removal is not required to gain access to electrical components.

PERFORMANCE

With an optical system custom designed for maximum performance when using T5HO lamps, VersaBay provides excellent distribution with fixture efficiencies in excess of 99% and spacing criteria of 0.8 for narrow distribution, and 1.3 for wide distribution.

ELECTRICAL

Standard class "P", thermally protected, auto-resetting HPF ballast, sound rated A. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

FINISH

Steel surfaces are painted with high gloss baked white enamel, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

MOUNTING

Fixture to be suspended a minimum of 6" from solid surface. Mounting options include aircraft cable, tong hanger, pipe hanger, or chain.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924. Fixtures bear UL damp location listing for 65°C.

ORDERING INFORMATION

EXAMPLE LHV4-654-M4RU-24EPU

LHV		4	-	6	54	-	-	-	-	-
MODEL	NO. OF LAMPS IN CROSS SECTION	REFLECTOR	BALLAST	LAMPS INSTALLED	OPTIONS					
LHV VersaBay® Fluorescent High Bay	6 Six	M4R Aluminum, 95% Reflective, Specular Silver (Narrow Beam) GW Gloss White (Wide Beam)	24EP (1) 2-Lamp & (1) 4-Lamp Electronic T5HO, Programmed Start 3EP (2) 3-Lamp Electronic T5HO, Programmed Start	F835 78+ CRI, 3500K F841 78+ CRI, 4100K F850 78+ CRI, 5000K F0835 82 CRI, 3500K F0841 82 CRI, 4100K F0850 82 CRI, 5000K F5830 85 CRI, 3000K F5835 85 CRI, 3500K F5841 85 CRI, 4100K F5850 85 CRI, 5000K F5865 85 CRI, 6500K F51830 3000K 85CRI 51W F51835 3500K 85CRI 51W F51841 4100K 85CRI 51W F51850 5000K 85CRI 51W F51865 6500K 85CRI 51W F49830 3000K 85CRI 49W F49835 3500K 85CRI 49W F49841 4100K 85CRI 49W F49850 5000K 85CRI 49W F49865 6500K 85CRI 49W	GLR Fast Blow Fuse F3C5 3-Conductor Cord F4C5 4-Conductor Cord C6TL15 6' Cord and Twist-Lock™ Plug 15A (Add Voltage: 1=120, 2=277) C6TL20 6' Cord and Twist-Lock™ Plug 20A (Specify Voltage 1=120, 2=277) C6P151 6' Cord and Straight Blade Plug 15A, 120V SP Side Panels Installed¹ EL5H 725-1250 Lumens, T5HO 1-Lamp WG Flat Wire Guard¹ CA Clear Acrylic Lens¹ CP Clear Polycarbonate Lens¹ CAWG Clear Acrylic Lens and Flat Wire Guard¹ CPWG Clear Polycarbonate Lens and Flat Wire Guard¹ OS1360 Factory Installed Occupancy/Daylight Sensor, with 360° lens, 120/277/347V, 1 Relay OS2360 Factory Installed Occupancy/Daylight Sensor, with 360° lens, 120/277/347V, 2 Relay OS1A Factory Installed Occupancy/Daylight Sensor, with Aisle lens, 120/277/347V, 1 Relay OS2A Factory Installed Occupancy/Daylight Sensor, with Aisle lens, 120/277/347V, 2 Relay OS480360 Factory Installed Occupancy/Daylight Sensor, with 360° lens, 480V, 1 Relay OS480A Factory Installed Occupancy/Daylight Sensor, with a Aisle lens, 480V, 2 Relay					
SIZE	LAMP TYPE	UPLIGHT	VOLTAGE							
4 4'	54 4', T5HO: 54, 51 or 49 Watt	ST Solid Top U Uplight	U 120V-277V 347 347V 480 480V							
ACCESSORIES (ORDER SEPARATELY)										
LHVTH	Tong Hanger (Pair)									
LHVWG4-6	Wire Guard, 6-Lamp, White									
LHVQM5	Aircraft Cable, 5' (Pair)									
LHVQM10	Aircraft Cable, 10' (Pair)									
LHVSPM5	Single Point Mounting, includes pair of 5' aircraft cables									
LHVSP	Side Panels (Pair)²									
LHVOS1360	Occupancy/Daylight Sensor, with a 360° lens, 120/277/347V									
LHVOS2360	Occupancy/Daylight Sensor, with a 360° lens, 120/277/347V									
LHVOS480360	Occupancy/Daylight Sensor, with a 360° lens, 480V									
C6TL15-120	Cord and Plug Kit (white), 6 ft., Twist Lock NEMA L5-15P, 15 amp, 120V									
C6TL15-277	Cord and Plug Kit (white), 6 ft., Twist Lock NEMA L7-15P, 15 amp, 277V									
C6P15-120	Cord and Plug Kit (white), 6 ft., Straight Blade NEMA 5-15P, 15 amp, 120V									

¹ Side panels or shielding options increase height to 2 7/8".

² For more occupancy/daylight harvesting sensor accessories contact your Columbia Lighting representative.

Test 14541 Test Date 3/2/07

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LHV4-654-M4RU VersaBay Industrial 21" x 48" 6-Lamp T5HO with MIRO®-4 Reflector and Uplight
Ballast	B254PUNVHT-D & B454PUNVHT-E
Ballast Factor	1.00
Lamp	F54T5HO
Lumens per Lamp	4450
Watts	343
Mounting	Pendant
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.23 90° = 0.85
Luminous Opening in Feet	Length: 4.00 Width: 1.79 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	7913	29.6	29.7
0-40	12123	45.4	45.5
0-60	19702	73.8	73.9
0-90	24931	93.4	93.5
0-180	26662	99.9	100.0

ENERGY DATA

Total Luminaire Efficiency	99.9%
Luminaire Efficacy Rating (LER)	78
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.08 based on 3000 hrs. and \$0.08 per KWH

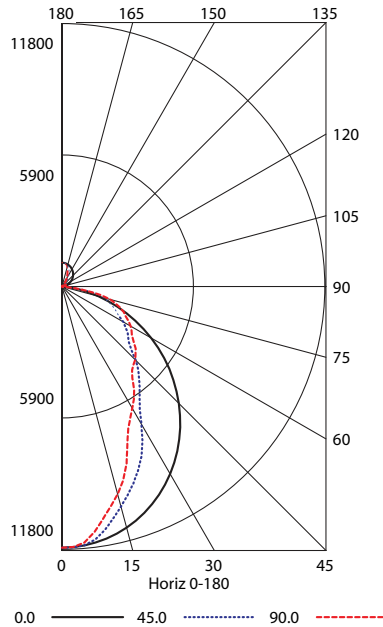
COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0				
		70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0	
1	107	103	98	95	104	100	96	93	94	91	88	78						
2	98	90	83	78	95	87	81	76	83	78	73	66						
3	89	79	71	65	86	77	70	64	73	67	62	56						
4	82	71	62	56	79	69	61	55	65	59	53	48						
5	76	63	55	48	73	62	54	48	59	52	47	42						
6	70	57	49	42	68	56	48	42	54	46	41	37						
7	65	52	44	38	63	51	43	37	49	42	37	33						
8	61	48	40	34	59	47	39	34	45	38	33	30						
9	57	44	36	31	55	43	36	31	42	35	30	27						
10	54	41	33	28	52	40	33	28	39	32	28	25						

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

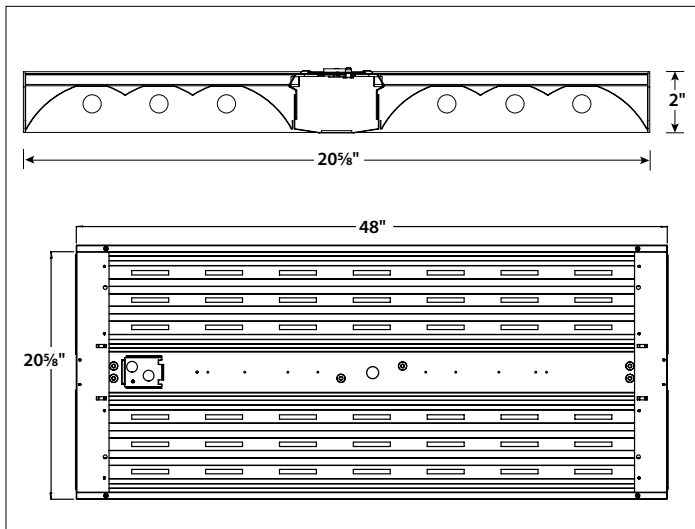
INDOOR CANDELA PLOT



AVG. LUMINANCE (Candela/Sq. M.)

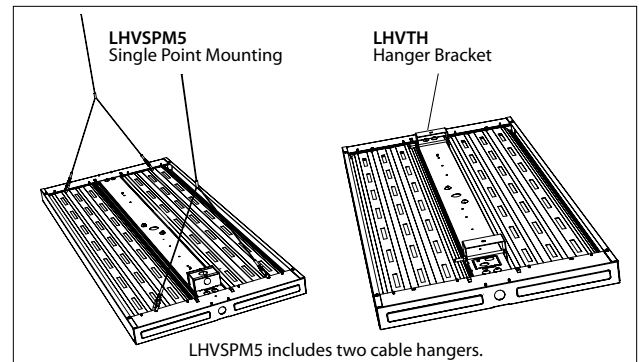
Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	17615	17615	17615	17615	17615
30	16852	14946	12372	11146	10945
40	16194	13309	10568	9681	9604
45	15769	12021	9965	9633	9886
50	15263	10625	9180	9858	10104
55	14670	9805	9433	9824	10052
60	13906	9083	9567	10301	10704
65	12920	8050	9633	10832	11223
70	11631	8057	10255	11815	12220
75	9898	7905	11327	12686	13058
80	7402	8519	12112	10813	10536
85	3691	8573	5917	2570	2191

DIMENSIONAL DATA



NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

OPTIONAL HANGER BRACKETS



LHV AIRCRAFT CABLE

