

FEATURES

- Energy-efficient fluorescent luminaire uses T5 or T8 lamps to replace HID in retail and industrial applications
 - Energy savings up to 51%
 - Excellent lumen maintenance (94% versus ~65% for typical metal halide)
 - Higher maintained lumens per watt (up to 77, versus 40 for typical metal halide high bay)
 - Instant restrike
 - Consistent color
 - Superior color rendering (75-84 CRI, versus 65-70 for metal halide)
- Optional 12% uplight
- Battery pack option (-EL) provides instant-on emergency illumination
- Tool-free access to lamps and ballasts
- Rounded edges and corners for safe handling and installation

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Code gauge steel construction. Multi-formed housing for rigidity. Tool-free ballast access.

SHIELDING

Available with optional prismatic acrylic wraparound lens or white steel cross baffle. Optional wire cage.

BALLAST AND ELECTRICAL

Energy efficient electronic, thermally protected, automatic resetting, Class P, high power factor, sound rated A. Positive stop, anti-vibrational locking lampholders. All configurations have been heat tested to ensure reliable operation and performance under normal conditions. CEE NEMA Premium compliant.

FINISH

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

MOUNTING

Furnished standard with Universal Hanger Bracket for mounting with jack chain or cable. Optional GLH adjustable cable system provides simple, fast, and flexible mounting to wood, concrete or steel decks, or to beams, purlins, or metal strut. Optional safety tether available.

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.

ORDERING INFORMATION

EXAMPLE LHEW4-428-ST-EPU

LHEW		4	-	-	-	OPTIONS					
MODEL	NO. OF LAMPS	SHIELDING	UPLIGHT	VOLTAGE							
LHEW Economy Fluorescent High Bay 15" Wide Body	4 Four 6 Six	Blank None WCB White Steel Cross Baffle ¹ PA Prismatic Acrylic Wraparound Lens ¹	ST Solid Top (No Uplight) U 12% Uplight	U 120V-277V 347 347V (HO only) 480 480V (HO only)	F5835 T5 or T5HO Lamp Installed, 82CRI, 3500K ¹	F5841 T5 or T5HO Lamp Installed, 82CRI, 4100K ¹	F5850 T5 or T5HO Lamp Installed, 82 CRI, 5000K	F0735 T8 Lamp Installed, 75 CRI, 3500K	F0741 T8 Lamp Installed, 75 CRI, 4100K	F0750 T8 Lamp Installed, 75 CRI, 5000K	GLR Fast Blow Fuse EL Emergency Battery Pack F3CS 3-conductor 5' Feed Cord Wired to Fixture F3C10 3-conductor 10' Feed Cord Wired to Fixture F3C15 3-conductor 15' Feed Cord Wired to Fixture F4CS 4-conductor 5' Feed Cord Wired to Fixture F4C10 4-conductor 10' Feed Cord Wired to Fixture F4C15 4-conductor 15' Feed Cord Wired to Fixture 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) C6P15 6' Cord and Straight Blade Plug 15A (Add Voltage: 1=120, 2=277) M4R MIRO 4 95% Reflectance Insert (solid top only) LSR Specular Anodized Aluminum Insert (solid top only) PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label
SIZE 4 48"		LAMP TYPE 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 Watt		BALLAST E (2 or 3) 2-Lamp Electronic T8, Instant Start 3E (2) 3-Lamp Electronic T8, Instant Start 3EH (2) 3-Lamp Electronic T8 High Light Output, Instant Start (1.2 BF) 4E 4-Lamp Electronic T8, Instant Start 24E (1) 2-Lamp and (1) 4-Lamp Electronic T8, Instant Start EP (2 or 3) 2-Lamp Electronic T5, Programmed Start 3EP (2) 3-Lamp Electronic T5, Programmed Start (6-Lamp Model) (N/A 347V or 480V) 4EP 4-Lamp Electronic T5, Programmed Start (N/A 347V or 480V) 24EP (1) 2-Lamp & (1) 4-Lamp Electronic T5, Programmed Start (6-Lamp Model) (N/A 347V or 480V)							
ACCESSORIES (ORDER SEPARATELY) LHTF Fixture Safety Tether LHTWCB White Cross Baffle Safety Tether LHHB Universal Hanger Bracket Kit GLH5 5' Adjustable Cable Kit ⁴ GLH10 10' Adjustable Cable Kit ⁴ GLH15 15' Adjustable Cable Kit ⁴ LHEMWG Wire Guard (Order two for LHEM8) LHEMCG Cage Guard (Order two for LHEM8) OS1K Occupancy Sensor Kit, 120/277/347V, one relay ³ OS2K Occupancy Sensor Kit, 120/277/347V, two relay ³											

⁴Use with LHHB
³Use programmed start ballast. Not recommended for use with an instant start. For more occupancy/daylight harvesting sensor accessories contact your Columbia Lighting representative.

¹Lamp type in catalog number will determine lamp installed.



Test 13372 Test Date 4/28/03

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LHEW4-654-ST LHE Industrial 15" x 48" 6-Lamp with Solid PAF Top
Ballast	ICN2/454S
Ballast Factor	1.00
Lamp	F54T5
Lumens per Lamp	4400
Total Input Watts	340
Shielding Angle	N/A
Spacing Criterion	0° = 1.29 90° = 1.39
Luminous Opening in Feet	Length: 3.97 Width: 1.09 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	5671	21.5	22.7
0-40	9471	35.9	37.9
0-60	17771	67.3	71.1
0-90	24979	94.6	100.0
0-180	24979	94.6	100.0

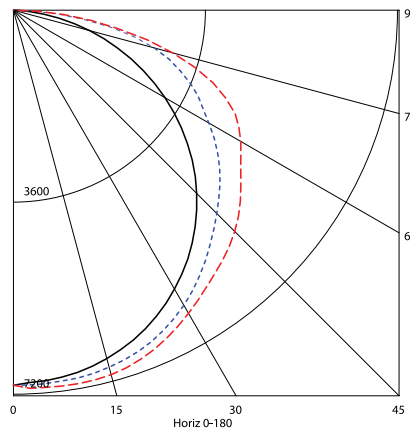
ENERGY DATA

Total Luminaire Efficiency	94.6%
Luminaire Efficacy Rating (LER)	73
IESNA RP-1-1993 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.29 based on 3000 hrs. and \$0.08 per KWH

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	101	96	92	87	99	94	90	86	90	86	83	76		
2	91	82	75	69	89	81	74	68	77	72	67	61		
3	82	72	63	56	80	70	62	56	67	60	55	51		
4	75	63	54	47	73	61	53	47	59	52	46	42		
5	69	56	47	40	67	55	46	40	53	45	39	36		
6	63	50	41	34	61	49	40	34	47	40	34	31		
7	59	45	36	30	57	44	36	30	43	35	30	27		
8	54	41	33	27	53	40	32	27	39	32	26	24		
9	51	38	29	24	49	37	29	24	36	29	24	22		
10	48	35	27	22	46	34	27	22	33	26	21	19		

INDOOR CANDELA PLOT



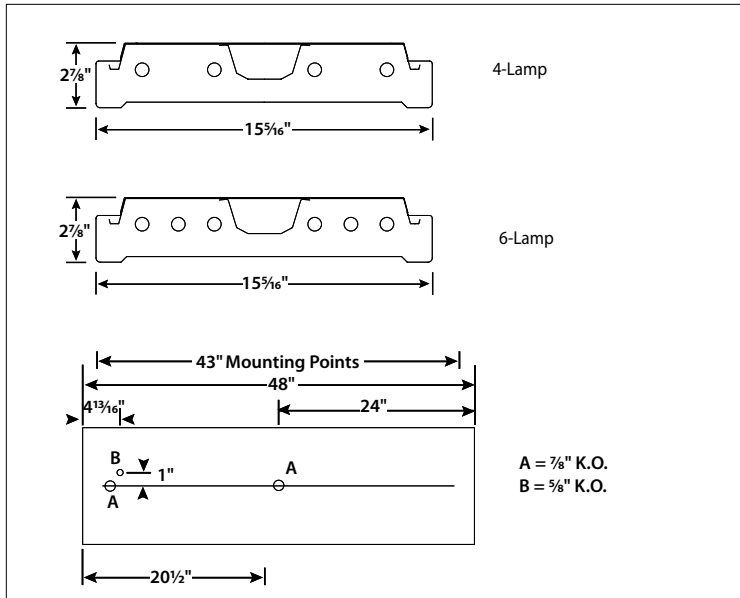
AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	17649	17649	17649	17649	17649
30	17500	18002	18518	18863	19019
40	17363	18159	18795	19680	20014
45	17241	18178	19136	20439	20823
50	17087	18165	19743	21305	21684
55	16812	18090	20449	22243	22764
60	16469	18231	21239	23895	24703
65	15991	18783	22692	26345	27242
70	15246	19048	24436	28355	29229
75	14336	19468	26529	29517	29982
80	12564	21368	27064	28554	28698
85	9160	20826	24715	27192	27365

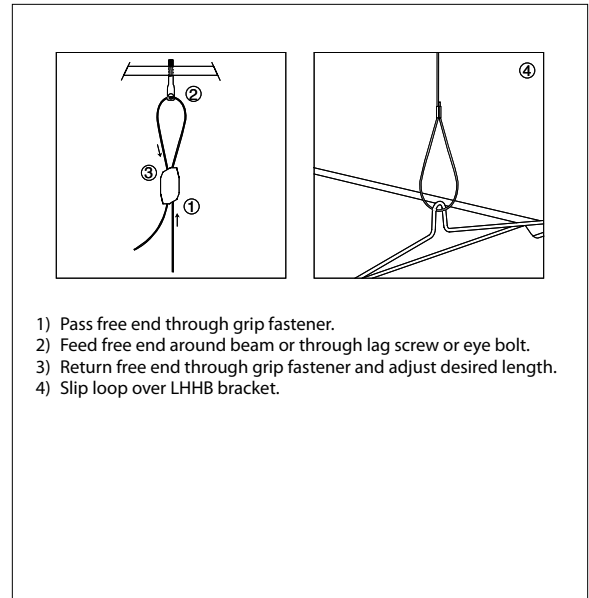
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

DIMENSIONAL DATA



GLH ADJUSTABLE CABLE KIT



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