

FEATURES

- Extremely efficient fluorescent luminaire replaces HID in retail and industrial applications
 - Energy savings up to 43%
 - Excellent lumen maintenance (94% versus ~65% for typical metal halide)
 - Higher maintained lumens per watt (up to 62, versus 40 for typical metal halide high bay)
 - Uses Columbia's "Brio" optical system for precise distribution and maximum efficiency
 - Instant restrike
 - Consistent color
 - Superior color rendering (82 CRI, versus 65-70 for metal halide)
 - Wide choice of lamp color
- Highly specular contoured reflectors drive light down to provide excellent vertical footcandles
- Choice of uplight options
- 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.

LOUVER

Columbia's "Brio" optical system delivers precise control and excellent efficiency. Dedicated anodized aluminum louver provides an optical envelope for each lamp, driving maximum light downwards and allowing greater mounting heights. Louver safety tethers are standard.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

ELECTRICAL

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

FINISH

Painted parts are treated with a five stage phosphate bonding process and finished with a high reflectance baked white enamel after fabrication.

MOUNTING

Features the fast and flexible GLH adjustable cable system for simplified 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 LHB4-254-M4R26-U-EPU

| LHB - - 2 - - - | | | | | | | | | |
|--|-------------------------------|--------------------------|--|--|--|---|--|--|-----------------------------------|
| MODEL | NO. OF LAMPS IN CROSS SECTION | SIZE | LAMP TYPE | CELL CONFIGURATION | REFLECTOR | BALLAST | OPTIONS | | |
| LHB High Performance Shielded High Bay | 2 Two | 4 T8: 48" T5: 46 7/8" | 28 4', T5: 28 Watt 32 4', T8: 32, 30, 28 or 25 Watt 54 4', T5HO: 54 Watt | 26 2 cells wide by 6 cells long (4') 212 2 cells wide by 12 cells long (8') | M4R MIRO™-4, 95% Reflectance MA Matte Anodized Aluminum | E (1 or 2) 2-Lamp Electronic T8, Instant Start EP (1 or 2) 2-Lamp Electronic T5, Programmed Start 4EP 4-Lamp Electronic T5, Programmed Start (N/A 347V or 480V) | F0835 T8 Lamp Installed, 82CRI, 3500K F0841 T8 Lamp Installed, 82CRI, 4100K F0850 T8 Lamp Installed, 82CRI, 5000K F5835 T5 or T5HO Lamp Installed, 82CRI, 3500K** F5841 T5 or T5HO Lamp Installed, 82CRI, 4100K** F5850 T5HO Lamp Installed, 82CRI, 5000K** GLR Fast Blow Fuse EL Emergency Battery Pack 1WW Asymmetric Wall Wash 2WW Double Wall Wash F3C5 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 F4C5 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) NYC NYC Compliant NYCU NYC Compliant, Union Label | | |
| | | | | | | For a specific ballast vendor, show as option. | | | |
| | | | | | | UPLIGHT | | | VOLTAGE |
| | | | | | | ST Solid Top (No Uplight) U 15% Uplight | | | U 120V-277V 347 347V (HO only) |
| | | | | | | | | ACCESSORIES (ORDER SEPARATELY) | |
| | | | | | | | | LHTF Fixture Safety Tether GLH5 5' Adjustable Cable Kit GLH10 10' Adjustable Cable Kit GLH15 15' Adjustable Cable Kit OS1K Occupancy Sensor Kit, 120/277/347V, one relay* OS2K Occupancy Sensor Kit, 120/277/347V, two relay* | |

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

Protected by US Patent 7,213,938.
Specifications subject to change without notice.

** Lamp type in catalog number will determine lamp installed.

PHOTOMETRIC DATA

Test 13374 Test Date 5/20/03

LUMINAIRE DATA

| | |
|--------------------------|---|
| Luminaire | LHB4-254-M4R26-15-EP LHB Industrial 7" x 48" 2-Lamp with 2 x 6 Cell MIRO®-4 Louver |
| Ballast | ICN2554 |
| Ballast Factor | 1.00 |
| Lamp | F54T5 |
| Lumens per Lamp | 4400 |
| Total Input Watts | 121 |
| Shielding Angle | N/A |
| Spacing Criterion | 0° = 1.25 90° = 1.41 |
| Luminous Opening in Feet | Length: 3.81 Width: 0.54 Height: 0.00 |

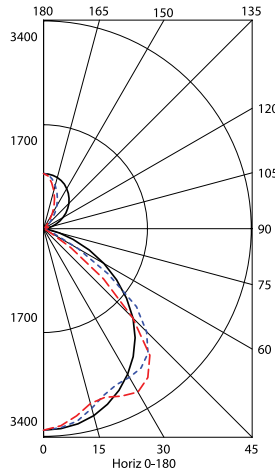
ZONAL LUMENS SUMMARY

| Zone | Lumens | % Lamp | % Fixt. |
|-------|--------|--------|---------|
| 0-30 | 2520 | 28.6 | 29.0 |
| 0-40 | 4228 | 48.0 | 48.7 |
| 0-60 | 6961 | 79.1 | 80.1 |
| 0-90 | 7447 | 84.6 | 85.7 |
| 0-180 | 8688 | 98.7 | 100.0 |

ENERGY DATA

| | |
|---|--|
| Total Luminaire Efficiency | 98.7% |
| Luminaire Efficacy Rating (LER) | 72 |
| IESNA RP-1-1993 Compliance | Non-Compliant |
| Comparative Yearly Lighting Energy Cost per 1000 Lumens | \$3.33 based on 3000 hrs. and \$0.08 per KWH |

INDOOR CANDELAPLOT



AVG. LUMINANCE (Candela/Sq. M.)

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|-------|-------|-------|-------|-------|
| 0 | 17249 | 17249 | 17249 | 17249 | 17249 |
| 30 | 16613 | 15846 | 16964 | 18395 | 18649 |
| 40 | 15920 | 15565 | 18160 | 18645 | 18481 |
| 45 | 15308 | 15612 | 17646 | 16477 | 15249 |
| 50 | 14423 | 15488 | 16148 | 11843 | 10435 |
| 55 | 13299 | 14713 | 11757 | 6540 | 5026 |
| 60 | 11929 | 13299 | 6822 | 2040 | 1297 |
| 65 | 10188 | 10671 | 2216 | 260 | 136 |
| 70 | 7847 | 6027 | 444 | 122 | 76 |
| 75 | 5397 | 1577 | 162 | 101 | 61 |
| 80 | 2561 | 301 | 151 | 151 | 151 |
| 85 | 180 | 300 | 300 | 300 | 300 |

COEFFICIENTS OF UTILIZATION (%)

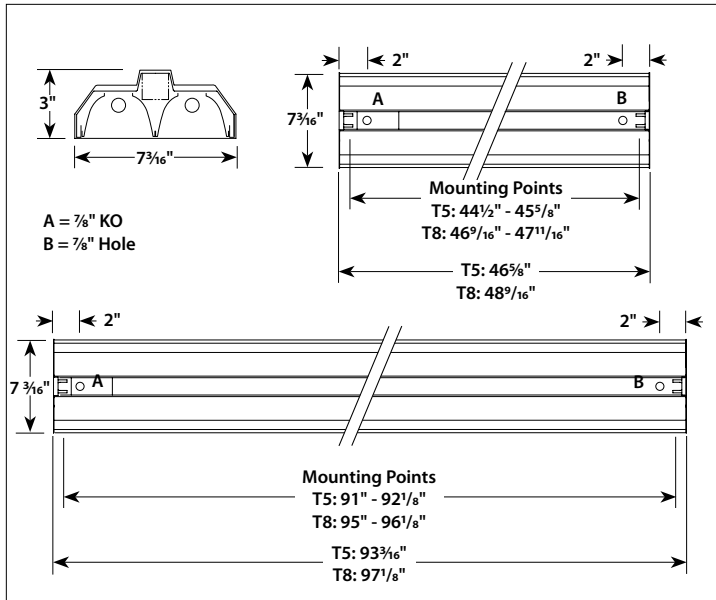
| RCR | RW | 80 | | | | 70 | | | | 50 | | | | 0 |
|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|---|---|
| | | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| 1 | 106 | 103 | 99 | 96 | 102 | 99 | 96 | 93 | 92 | 90 | 88 | 75 | | |
| 2 | 98 | 91 | 86 | 81 | 94 | 88 | 84 | 79 | 83 | 79 | 75 | 65 | | |
| 3 | 90 | 82 | 75 | 69 | 87 | 79 | 73 | 68 | 74 | 69 | 65 | 57 | | |
| 4 | 83 | 73 | 66 | 60 | 80 | 71 | 64 | 59 | 67 | 61 | 57 | 50 | | |
| 5 | 77 | 66 | 58 | 52 | 74 | 64 | 57 | 51 | 60 | 54 | 50 | 44 | | |
| 6 | 71 | 60 | 52 | 46 | 69 | 58 | 51 | 45 | 55 | 49 | 44 | 39 | | |
| 7 | 66 | 54 | 46 | 41 | 64 | 53 | 45 | 40 | 50 | 44 | 39 | 35 | | |
| 8 | 62 | 49 | 42 | 36 | 59 | 48 | 41 | 36 | 46 | 39 | 35 | 31 | | |
| 9 | 58 | 45 | 38 | 33 | 56 | 44 | 37 | 32 | 42 | 36 | 32 | 28 | | |
| 10 | 54 | 42 | 35 | 30 | 52 | 41 | 34 | 29 | 39 | 33 | 29 | 25 | | |

RCR = Room Cavity Ratio

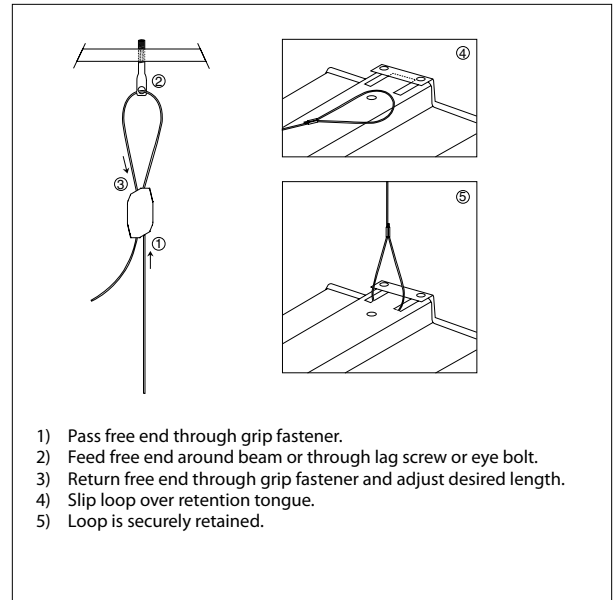
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

0.0 ——— 45.0 - - - - - 90.0 -

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.