TECHLIGHT®
INNOVATOR AND LEADER IN THE LIGHTING INDUSTRY

LWDHB SERIES

4’ LED Wash Down Vapor Tight High Bay

Catalog Number	
Project	Type

SERIES	HOUSING HEIGHT	LENGTH & WIDTH
LWDHB	6-1/2”	50-5/8” x 17-1/4”

FEATURES & SPECIFICATIONS

APPLICATION — The LWDHB brings the benefits of gasketed enclosures to High Bay and Low Bay applications. Ideal for use in high mounting height environments where dust, dirt, or moisture is present including food processing, cold storage, sports concourses, manufacturing, and industrial.

CONSTRUCTION — The LWDHB utilizes a gear tray design with symmetric hinging for easy wiring access. Rigid one-piece housing construction. Compression molded self-extinguishing fiberglass reinforced polyester compound with UL 5V flame rating (ASTM D635-74) and F1 weatherability rating. The housing is sealed against dust and moisture. Gear trays constructed of high reflective, 22-gauge, pre-painted steel. Contoured component surfaces reduce the buildup of debris and promote easy cleaning. Universal gear tray is symmetrically hinged for easy maintenance access via three steel hinges. Gear tray latches to housing via two stainless steel latches. Lens secured by 12 stainless steel cam latches.

FINISH — All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder.

OPTICAL SYSTEM — Thermoformed contoured clear acrylic lens has linear ribbed features for lamp obscuration and glare reduction. LED strips covered with VWD (Very Wide 120°) acrylic diffusers.

ELECTRICAL SYSTEM — Standard housings available with one 7/8” conduit entry point on either or both ends. Dimming Method: 1-10V Dimming.

MOUNTING — Fixture is supplied standard with **(4) EHB-HNGBRKT** mounting brackets. Optional mounting accessories include the stainless steel wire hanger kit, S-Hook and Jack Chain Set, and surface mount bracket kit, all of which attach to the fixture using the standard **EHB-HNGBRKT** brackets.

LISTINGS — ETL listed for wet locations (IP65, IP66 and IP67). Meets US and Canadian safety standards. NSF International certified for NSF/ANSI Standard 2 – Food Equipment and Splash Zone 2. RoHS Compliant.

8L-32L Operating Temperature:
→ **Surface Mounted** operating temperature: **-40°C (-40°F) to 40°C (104°F)**
→ **Suspended** at least 18” from ceiling operating temperature: **-40°C (-40°F) to 45°C (113°F)**

36L Operating Temperature:
→ **Surface Mounted** operating temperature: **-40°C (-40°F) to 40°C (104°F)**
→ **Suspended** at least 18” from ceiling operating temperature: **-40°C (-40°F) to 45°C (113°F)**

WARRANTY — Exceeding the maximum ambient temperature ratings listed above may lead to premature fixture failure and will void the Techlight standard warranty.

ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

EXAMPLE:
LWDHB 36L 40 VWD 1 WH

LWDHB						
SERIES	NOMINAL LUMENS	COLOR TEMP/CCT	LENS	VOLTAGE	FINISH	OPTIONS
	8L = 8,000 Lumens **12L** = 12,000 Lumens **16L** = 16,000 Lumens **20L** = 20,000 Lumens **24L** = 24,000 Lumens **28L** = 28,000 Lumens **32L** = 32,000 Lumens **36L** = 36,000 Lumens	**50** = Cool White (5000K) **40** = Neutral White (4000K)	**VWD** = Very Wide 120°	**1** = Multi-Volt[1] **2** = 347~480V	**WH** = White	**HOEB** = LED Battery Pack, 90 min, 5050 lumens **STC63** = 6’ x 3X 18AWG, 1/2” Seal Tight Conduit with 1/2-14 NPT threaded fittings **STC64** = 6’ x 4X 18AWG, 1/2” Seal Tight Conduit with 1/2-14 NPT threaded fittings **STC65** = 6’ x 5X 18AWG, 1/2” Seal Tight Conduit with 1/2-14 NPT threaded fittings **WLSJx[2]** = 3/8” dia., 16/3 SJ Cord with Wet Location Cable Connector **FBF** = Internal Fast-Blow Fuse **DLP** = Dimming Leads Pulled **WOC5[3]** = Wet Location High Bay Occupancy Sensor High/Low/Off **WOCLEV[4]** = Fixture Mount PIR Occupancy Sensor with Daylight Harvesting **WOCBT[5]** = Bluetooth Mesh Wireless Smart Control **EL400FS[6]** = Sensor extension with wire-through for sensor alignment **EHB100** = 4’ Contoured frosted acrylic Lens

ACCESSORIES (Order as separate line items)

EHB-HANGER Stainless Steel Wire Hanger Kit, Includes (2) Wire Hangers
132903BK Surface Mount Bracket Kit, Includes (2) Brackets and Mounting Hardware
10JC (3) S-Hooks and 10’ Jack Chain Set
MH 1/2” Myers Hub (2X)

NOTES

1 = Multi-Volt is 120/277V.
2 = Must specify cord length when ordering. Replace “x” with length in feet.
Example: WLSJ10 = 10’ of 3/8” dia., 16/3 SJ Cord with Wet Location Cable Connector
3 = Must specify voltage (120V, 277V only)
4 = PIR Occupancy Sensor Input voltage 120-347V
5 = Bluetooth Mesh Input voltage 120-277V
6 = Must be ordered as a separate line item, and along with one of the WOC options.

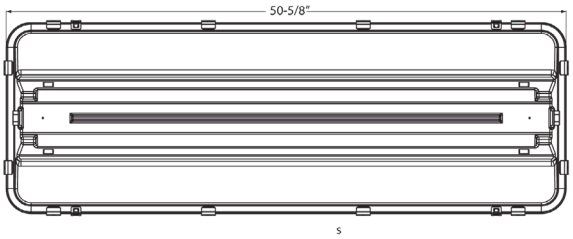
www.techlight.com

LWDHB 4' LED Wash Down Vapor Tight High Bay

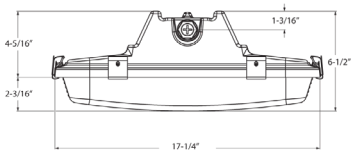
AVAILABLE FIXTURE DIMENSIONS

Dimensions shown are for fixture bodies only. Mounting options must be ordered separately.

TOP VIEW



END VIEW



Standard Mounting Parts:

SIDE VIEW

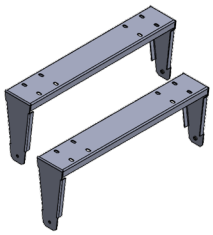
FIXTURE & MOUNTING ACCESSORIES

HOEB
LED Battery Pack, 90 min, 5050 lumens

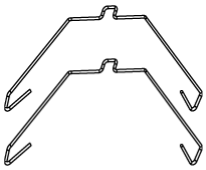
10JC
(3) S Hooks and 10' Jack Chain Set

EHB100F
4' Contoured Acrylic Frosted Lens

132903BK
Surface Mount Bracket Kit, Includes (2) Brackets and Mounting Hardware

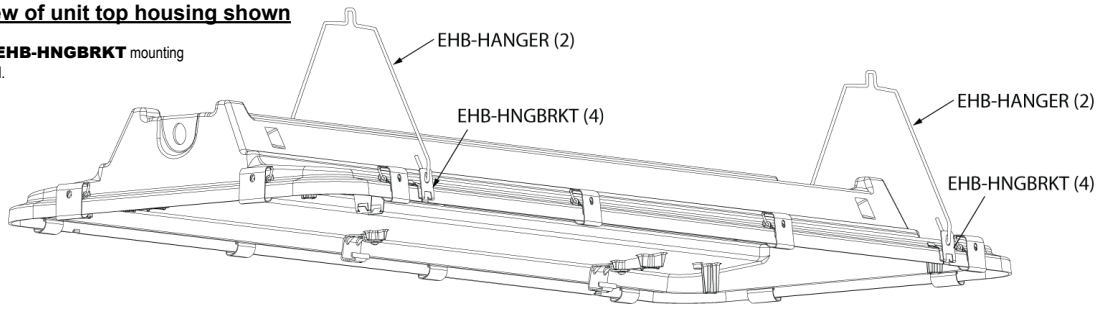


EHB-HANGER
Stainless Steel Wire Hanger Kit, Includes (2) Wire Hangers

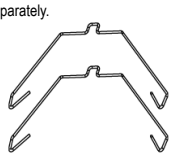


Exploded view of unit top housing shown

Fixture includes **(4) EHB-HNGBRKT** mounting **brackets as standard**.



Optional **EHB-HANGER** wire hanger kit shown for reference and must be ordered separately.



LUMINAIRE CHARACTERISTICS

Item Number	Nominal Lumens	System Wattage	LPW	L70 @ 25°C	Amperage Draw			
					120V	208V	240V	277V
8L	8056	53	152	>50K	0.44	0.25	0.22	0.19
12L	12300	82	150	>50K	0.68	0.39	0.34	0.30
16L	16428	111	148	>50K	0.93	0.53	0.46	0.40
20L	20586	141	146	>50K	1.18	0.68	0.59	0.51
24L	24620	171	144	>50K	1.43	0.82	0.71	0.62
28L	28541	201	142	>50K	1.68	0.97	0.84	0.73
32L	32340	231	140	>50K	1.93	1.11	0.96	0.83
36L	35890	260	138	>50K	2.17	1.25	1.08	0.94

WARNING: Maintenance performed including the replacement of LED stripss while power is still supplied to the lumenaire may result in system failures and will void the warranty.

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2009 Mckenzie Drive Suite 110 I Carrollton, TX 75006 I PH: 800.225.0727 www.techlight.com

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FIXTURE MOUNT SENSOR

The **WOCBT** and **WOCLEV** PIR Fixture Mount Occupancy Sensors offer a comprehensive and user-friendly solution for intelligent lighting control in high and low bay applications. These easy-to-program sensors seamlessly integrate with existing LED fixtures using a standard 1/2" knockout, eliminating the need for complex wiring configurations.

WOCLEV PIR

Both highbay and lowbay lens are provided with sensor. Highbay lens is factory installed as standard. Lowbay lens must be field installed unless otherwise requested.

WOCBT PIR

HOLH 2D model shown with dimming occupancy sensor with bluetooth mesh technology.

ANDROID & IOS APP AVAILABLE FOR BLUETOOTH CONTROLLER

Android

IOS

EL400FS extension with SENSORS

APPLICATION — Sensor extension with wire-through for optimal sensor alignment, avoiding fixture obstructions to ensure a full range of view.

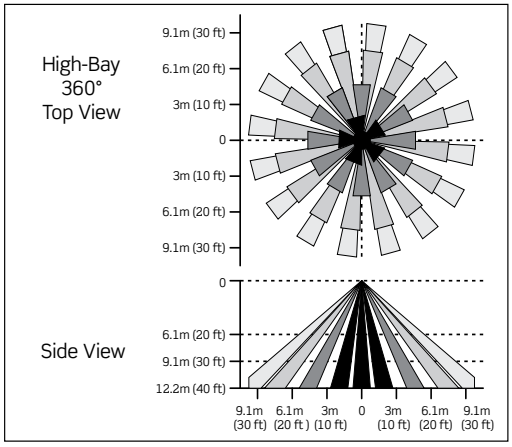
EL400FS - Wire-through motion sensor extension

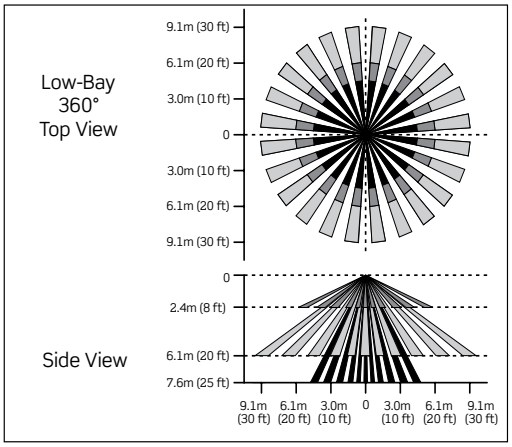
WOCLEV - Fixture Mount PIR Occupancy Sensor

WOCBT - Bluetooth Mesh Wireless Smart Control

Order EL400FS as a separate line item along with one of the sensors above.

WOCLEV PIR LENSES FIELD OF VIEW





KEY FEATURES:

- **1-10V Dimming Control (0-100%):** Precisely adjust light levels based on occupancy and ambient daylight, maximizing energy savings.
- **Integrated Photocell with Patented AutoCal™:** Automatically adapts lighting based on natural light, with set-it-and-forget-it calibration
- **Interchangeable Lenses (360°):** Optimize detection for high bay (up to 40ft) or low bay environments with included lenses.
- **Universal Compatibility:** Works seamlessly with a wide range of LED fixtures.
- **Cold Storage Ready:** Available in a model suitable for temperatures as low as -40°F.

SIMPLIFIED INSTALLATION:

The **WOCBT** and **WOCLEV** sensors install directly onto your LED fixture through a standard 1/2" knockout using the provided locknut. Factory-connected wiring eliminates complex configurations, ensuring a quick and hassle-free setup.

ADDITIONAL FEATURES:

- **Suitable for standard and cold storage applications.**
- **Visual RGB LED indicators** provide clear device status and simplify troubleshooting.
- **Alternating relay software** extends lamp life.
- **Adjustable time delay (no power required)** for customization.
- **Pre-stripped color-coded wire leads** for efficient connection.
- **Quicksnap feature** for easy installation.
- **H.I.S. (High Inrush Stability) Technology** ensures smooth operation.
- **Zero crossing circuitry** protects electrical components.
- **Robust mechanical latching relay** delivers reliable performance.
- **Relay always returns to close after power loss event** for consistent operation.
- **UL listed for electronic driver loads 120/277V** guarantees safety and compliance.

IDEAL APPLICATIONS:

• Warehouses • Manufacturing Facilities • Gymnasiums
• Auditoriums • Retail Spaces (with high ceilings)

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