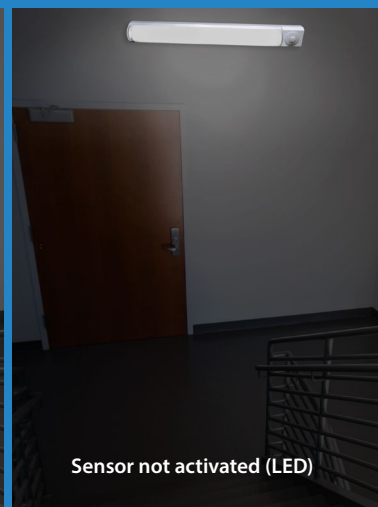


Sensor not activated (fluorescent)



Sensor not activated (LED)

Bi-Level Luminaire

Maximize Energy Savings with Controlled Light Levels

Columbia's Bi-Level Luminaire is the perfect solution for stairwells, as well as other low-occupancy areas such as storerooms, restrooms, and parking structures. Part of Columbia's createchange® family, it maximizes energy savings by intelligently managing illumination levels to avoid wasted watts.

Stairwell lighting requirements call for increased light levels during occupied times while maintaining minimum level standards when unoccupied. Since most stairwells are required to be lit 24 hours a day and 7 days per week, they represent a significant energy saving opportunity. Case studies have shown that stairwell areas in such buildings as hotels, hospitals and offices have occupancy rates on average of 1-7%.

Columbia's Bi-Level Luminaire has been designed with the latest lighting technology to meet all the demanding stairwell lighting requirements. The system maximizes energy savings by offering bi-level lighting, which maintains minimum illumination levels when the stairwells are empty.

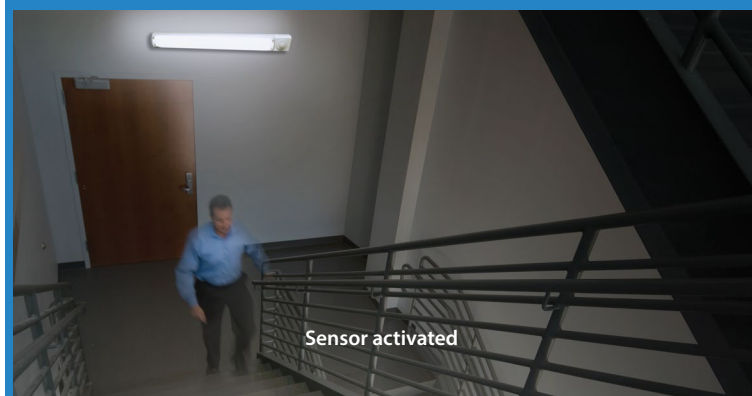
The **Bi-Level Luminaire** is offered in LED (LBIL) or fluorescent (BIL), where the source is controlled by a passive infrared sensor to provide safe and dependable light levels during occupied times while adjusting levels down to acceptable minimum levels during unoccupied time.

FEATURES

- Energy saving luminaire with integrated occupancy controls
- Bi-level light control offers safety and security
- Ideal for stairwells, parking structures, restrooms and areas where maximum light levels are not needed when area is unoccupied
- Typically used with two light levels and step-dimming control, fixed output, and 0-10V daylight dimming also available
- Tool-less access to fluorescent ballast or LED driver for ease of maintenance
- Can be surface mounted or suspended
- Multiple ballast options available for needed energy savings and light output

LED

- Controlled by an integral occupancy/daylight harvesting sensor to reduce light output to 50% when the stairwell is unoccupied
 - Low wattage (LW) provides 3,000 nominal lumens occupied and 1,600 nominal lumens unoccupied
 - Medium lumen (ML) provides 5,000 nominal lumens occupied and 2,500 nominal lumens unoccupied
- 50,000 hours at L70 lumen maintenance
- Choice of four CCT colors
- White aluminum body allows for greater heat dissipation



Sensor activated

ORDERING INFORMATION

BIL	4	2			U	
MODEL	SIZE	LAMPS IN CROSS SECTION	LAMP TYPE	PRIMARY BALLAST	VOLTAGE	OPTIONS
BIL Bi-Level Luminaire	4 4'	2 Two	32 4', T8: 32, 30, 28, or 25 Watt and 2', T8: 17 Watt 28 4', T5: 28 Watt and 2', T5: 14 Watt 54 4', T5H0: 54, 51 or 49 Watt and 2', T5: 14 Watt	EP Electronic T5, T5H0, 1.0 BF or T8 Programmed Start, 0.88 BF EPLW Electronic T8, Programmed Start, 0.77 BF EPHL Electronic T8, Programmed Start, 1.18 BF	U 120V-277V	EL Emergency Battery Pack, 2' lamp 500 lumens ² ODS1 Factory Installed Occupancy Sensor with daylight harvesting photosensor, 120/277/347V, one relay ¹ NYC NYC Compliant
Unoccupied		Occupied				
(1) 17 WATT T8 LAMP		(1) 17 WATT T8 LAMP & (2) 32 WATT T8 LAMPS				
Ballast Type	Watts	Lumens	Watts	Lumens		
EP (0.88 BF)	15	989	74	4669		
EPLW (0.77 BF)	15	989	62	4208		
EPHL (1.18 BF)	15	989	90	5170		

¹ Use programmed start ballast. Not recommended for use with instant start. For more occupancy/daylight harvesting sensor accessories contact your Columbia Lighting representative.
² Voltage Required

LBIL					U	
MODEL	SIZE	COLOR TEMP	LUMEN OUTPUT	DRIVER	VOLTAGE	OPTIONS
LBIL LED Bi-Level Luminaire	2 2' 4 4' 8 8'	30 3000K 35 3500K 40 4000K 50 5000K	VW VW Very Low Watt (2' Only) MW Medium Low Watt (2' Only) LW Low Watt ML Medium Lumen	E Fixed Output ED 0-10V Dimming	U 120V-277V	ELL14 Emergency Battery Pack Installed, 1400 Lumens ¹ C6TL15 6' Cord and Twist-Lock™ Plug 15A (Add Voltage: 1=120, 2=277) C6TL20 6' Cord and Twist-Lock™ Plug 20A (Add Voltage: 1=120, 2=277) C6P151 6' Cord and Straight Blade Plug 15A, 120V VH (2) V-Hangers NS No Sensor US Ultrasonic Sensor (Fixed Output Only), WS DH-SL Digital Dimming Low-Bay Sensor, WS ²
See Product Availability Table below.						
Product Availability						
Size	Lumen Package	Lumens	Watts	Efficacy		
2'	VW	1,654-1,792	15	114-112		
	MW	1,973-2,101	18	111-118		
	LW	3,026-3,223	27	112-120		
4'	LW	2,959-3,151	24	124-132		
	ML	4,997-5,322	42	118-126		
8'	LW	5,918-6,302	48	124-132		
	ML	9,994-10,644	84	118-126		

¹ N/A on 2'
² Sensor programming module sold separately, SCP-REMOTE



DLC® (DesignLights Consortium) Qualified
- see www.designlights.org

RETRO-FIT CASE STUDY

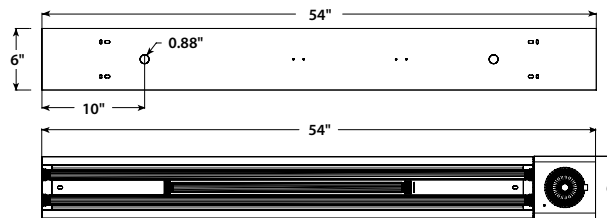
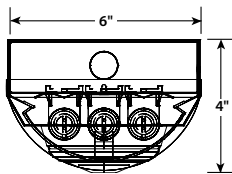
EXISTING FIXTURE	2-Lamp 40W T12	Relamping at 20,000 hrs
Standard Retrofit	2-Lamp 32W T8	Relamping at 20,000 hrs
Bi-Level Retrofit	BIL4-232-EPLWU	Relamping at 20,000 hrs
LED Bi-Level Retrofit	LBIL4-35LW-ESDU	LED life L70 at 50,000 hrs

ASSUMPTIONS

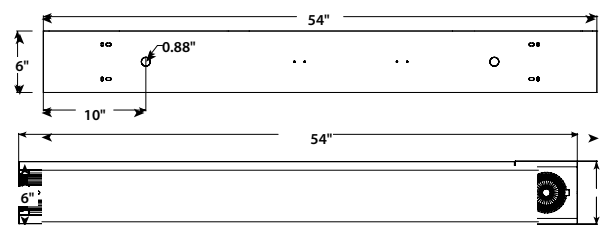
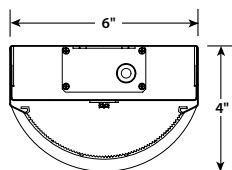
Operating Hours/Year	8,760
Energy Rate \$/kWh	\$0.12
Number of Fixtures	20

	%Full Output	%Standby Mode	Full Watts/Fixture	Standby Watts/Fixture	Energy Use (kWh/yr)	Energy Savings (kWh/yr)	Energy Savings (%)	Annual Cost	Annual Savings	Lamp Life
No Retrofit	100%	0%	82	n/a	14,366	-	0%	\$1,723.97	\$ -	20,000 hrs
Standard Retrofit	100%	0%	58	n/a	10,162	4,205	29%	\$1,219.39	\$504.68	20,000 hrs
BIL Retrofit	20%	80%	62	15	4,275	10,092	70%	\$427.49	\$1,009.15	20,000 hrs
LBIL Retrofit, LED	20%	80%	24	12	3,749	10,617	74%	\$449.91	\$1,274.05	50,000 hrs L70

DIMENSIONAL DATA FLUORESCENT



LED



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