



Application

The Polar Bay Enclosure is IP67 rated, dust and moisture-resistant, making it ideal for harsh environments where humidity or moisture is present. Primary applications include:

- Food processing facilities
- Kitchens
- Public Areas
- Subways
- Schools
- Parking garages
- Gas Stations
- Government facilities
- Industrial facilities
- Exterior Retail

Description

The full body assembly accommodates either T8 or T5 lamps. The gasketed enclosure is constructed of a fiberglass upper body and acrylic diffuser, with a continuous poured gasket. The diffuser and upper components are locked by retaining latches, which ensures a tight seal. Sockets include secure positioning rotating collars.

Reflector Optics

The superior beam spread optics are ideal for an open area general lighting. The Polar Bay comes standard with a white channel cover (WA), and is available using a 95% reflectance specular aluminum (SA) Miro®4 reflector, which has a 25 year warranty.

Electrical

All ballasts are class P rated and UL/CUL listed. Our ballasts are also thermally protected, sound rated and tightly secured by mounting bolts.

Polar Bay T5 and T8 Series

Maintenance

No tools required for lamp and ballast access.

Installation

Fixture comes with V-Hooks.

Warranty

One year warranty against defect in manufacturing.

Listing

- UL/CUL Listed
- NSF International
- U.S.D.A.

Catalog Ordering Matrix

Family	Reflector Distribution	Lamp Quantity	Lamp Type	Voltage	Ballast Factor	Specific Ballast	Options
PL4 - 4' Polar Bay	SA - Medium Distribution WA - Wide Distribution	4 (4' Fixture Only) 6 (4' Fixture Only)	28 - (T8 28W) 32 - (T8 32W) 54 - (T5H0 54W)	UNI - (120-277) 347 480	H - (T8 High) N - (T8 Normal) L - (T8 Low) V - (T5H0) HPRS - (T8 H Program Rapid Start)	Leave Blank - (TCP) GE - (GE) ADV - (Advance) ULT - (Universal) SYL - (Sylvania) Must provide ballast part number on order for specific ballast	(See Below)

OPTIONS

Power Cords

- 2P - 120V, 15A, 8' Power cord w/ straight blade plug
- 3P - 120V, 15A, 8' Power cord w/ twist lock plug
- 4T - 120V, 20A, 10' Power cord w/ twist lock plug
- 11P - 208V, 15A, 8' Power cord w/ straight blade plug
- 9T - 208V, 20A, 8' Power cord w/ twist lock plug
- 8P - 277V, 20A, 8' Power cord w/ straight blade plug
- 10P - 277V, 15A, 10' Power cord w/ twist lock plug
- 10T2 - 277V, 20A, 10' Power cord w/ twist lock plug
- 6C - 120V-300V rated 6' Power cord only. No plug
- 10C - 120V-300V rated 10' Power cord only. No plug
- 10C6 - 120V-600V rated 10' Power cord only. No plug
- 20C - 120V-300V rated 20' Power cord only. No plug
- 6W - 600V rated 6' flexible metal conduit fixture whip
- 6C4 - 120V-300V 6' Power cord only, 4 wire. No plug
- 20C4 - 120V-300V 20' Power cord only, 4 wire. No plug
- 8T - 480V, 20A, 8' Power cord w/ L8-20 twist lock plug

Occupancy Sensors

- TS1 - TCP Occupancy sensor w/ bracket and interchangeable lenses, 120V, 277V, or 347V
- TS1C - TCP Cold Storage Occupancy Sensor w/ bracket and interchangeable lenses, 120V, 277V, and 347V
- TS4 - TCP Occupancy Sensor w/ bracket and interchangeable lenses, 480V
- TS4C - TCP Cold Storage Occupancy Sensor w/ bracket and interchangeable lenses, 480V
- OSWL3 - Occupancy sensor w/ bracket for Wet Location, Low Bay
- OSWL4 - Occupancy sensor w/ bracket for Wet Location, High Bay

Use a program rapid start ballast with occupancy sensor. EcoVations is not responsible for lamps failing prematurely due to an occupancy sensor being used with an instant start ballast.

Emergency Ballasts

- 20B1 - TCP 450 LMS 90 min (T8)
- 20B6 - TCP 700 LMS 90 min (T8)
- 20B5 - TCP 1400 LMS 90 min (T8)
- 20B3 - TCP 3000 LMS 90 min (T8 or T5)
- 20BL5 - TCP 800 LMS 90 min (T5)
- 20BL6 - TCP 1350 LMS 90 min (T5)
- B1 - 400 LMS 90 min (T8)
- B7 - 550 LMS 120 min (T8)
- B9 - 550 LMS 90 min (T8)
- B6 - 650 LMS 90 min (T8)
- B5 - 1350 LMS 90 min (T8)
- B3 - 3000 LMS 90 min (T8 or T5)
- BL5 - 700 LMS 90 min (T5)
- BL6 - 1250 LMS 90 min (T5)

Emergency Ballast Notes:

Orders with an emergency ballast must include a note on the order indicating the number of lamps to be operated, which lamp(s) will be operated by the emergency ballast (i.e. 3rd lamp), and what voltage is to be used (i.e. 120V). See Emergency Ballast Spec Sheets for details.

† If a desired lamp and/or ballast is needed in an EcoVations linear fluorescent fixture, please provide a spec sheet when consulting with your local sales rep. The sales rep will provide a price to use the desired lamp and/or ballast.

Lamps Installed in Job Pack

- 730 - T8 Lamps Only
- 735 - T8 Lamps Only
- 741 - T8 Lamps Only
- 830 - T5 and T8 Lamps
- 835 - T5 and T8 Lamps
- 841 - T5 and T8 Lamps
- 850 - T5 and T8 Lamps
- 865 - T5 and T8 Lamps
- 830HL - T8 Lamps Only
- 835HL - T8 Lamps Only
- 841HL - T8 Lamps Only
- 850HL - T8 Lamps Only
- 865HL - T8 Lamps Only

Special Mounting

- EZHANGER - 15' adjustable aircraft cable hanging kit
- 12Pendantkit - Mounting kit for 1/2" pendants
- 34Pendantkit - Mounting kit for 3/4" pendants
- LHKIT - Single Point Hook Mounting Kit complete

Geartrays

Prepainted cold rolled steel with minimum 87% total reflectance. Supported by 4 stainless steel spring fittings. Can be opened or latched from either side for easy installation and maintenance.

Easy mounting with V-hooks or cables.

Appropriate for those applications that may require:

- Washability / hose down
- Complete containment of the lamps
- The ability to withstand reduced temperatures.
- Withstands moderate impact.

Seals dust out. Reflectance of interior surfaces will not be effected by environmental contaminants.

Designed for easy assembly and maintenance.

Specular Aluminum Reflector also available.



GEARTRAY CONFIGURATIONS:

4 LAMP - T5 OR T8 | 40°C/104°F

6 LAMP - T5 OR T8 | 25°C/77°F

Lenses



100% impact resistant acrylic for maximum light transmission and longevity or UV stabilized polycarbonate for temperature extremes and maximum impact resistance. The face side of the lens is clearer to maximize efficiency and minimize distortion of reflectors intended distribution. The sides have precise lineal prisims and the ends are lightly frosted to reduce direct glare.

Housings

EcoVations Polar Bay enclosures are created with heavy duty fiberglass housing that is not only durable, but also flame retardant.



5VA FLAMMABILITY RATING

in accordance with UL94 and
(F1) in accordance with UL746.

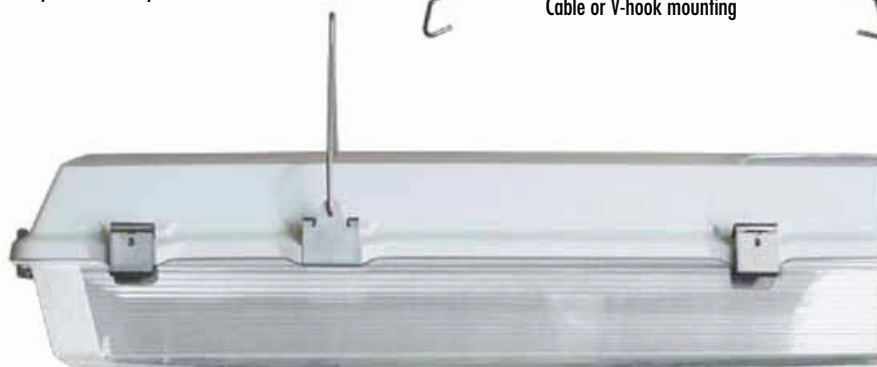
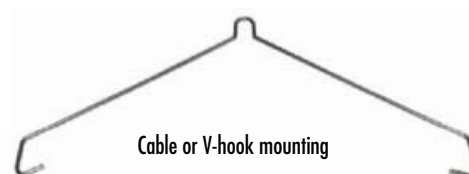
The Standard for Flammability of Plastic Materials for Parts in Devices and Appliances, is now harmonized with IEC 60707, 60695-11-10 and 60695-11-20 and ISO 9772 and 9773.

Mounting



MOUNTING OPTIONS:

- No holes need to be drilled through the housing.
- Stainless steel V-hook (shown right) with hook hangers (shown left). UL rated for 4X fixture weight.
- Cable hangers (not shown) are compatible with cable systems for easy installation.



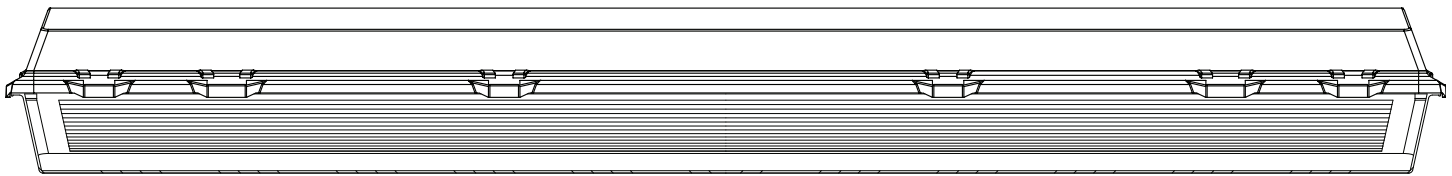
Latches



LATCHES:

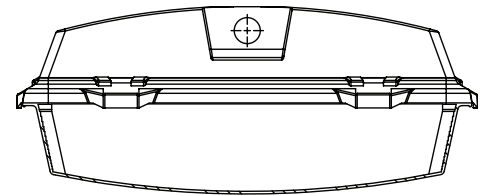
- Stainless steel latches provide durability and chemical resistance.
- Captive design. Will not fly off during maintenance.
- 12 latches per unit assure positive lens retention.
- Can easily be made tamper resistant.

Dimensions & Construction



Width: 14.61" (371mm)
Length: 51.91" (1319mm)
Depth: 5.95" (151mm)

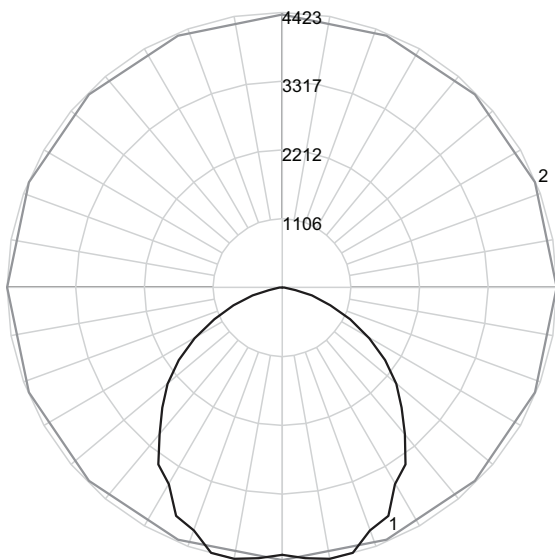
WASH DOWN DESIGN:
The Polar Bay Series has been carefully designed to minimize horizontal surfaces and latch pockets that are prone to retaining debris.



Photometric Report

Polar Bay, 6-32W, 95% Specular Reflector, 2950 Lumens, 1.15 BF

Calculated using the zonal cavity method. Lamp configurations shown are typical. All data based on 25°C. Full photometric data on these and other configurations available upon request.



Candela Distribution

	0.0	22.5	45.0	67.5	90.0
0	4295	4295	4295	4295	4295
5	4361	4353	4345	4337	4337
15	4419	4387	4395	4395	4387
25	4048	4024	4024	4000	4000
35	3473	3449	3449	3553	3600
45	2727	2743	2863	2951	3055
55	2028	2051	2355	2602	2666
65	1205	1349	1732	1908	1948
75	495	758	1014	1181	1237
85	79	239	455	574	622
90	39	167	367	479	518

Luminance Data in Candela/Square Meter

	0.0	45.0	90.0
45.0	8231	7633	7990
55.0	7370	7227	7975
65.0	5720	6493	7056
75.0	3542	5082	5905
85.0	1223	3604	4557

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	3460.46	19.6	25.3
0-40	5619.63	31.7	41.1
0-60	9926.53	56.1	72.5
0-90	13045.93	73.7	95.3
90-180	642.48	3.6	4.7
0-180	13688.40	77.3	100.0
Total Luminaire Efficiency = 77.3%			

Spacing Criteria (0-180) = 1.3
Spacing Criteria (90-270) = 1.3

Certifications:

