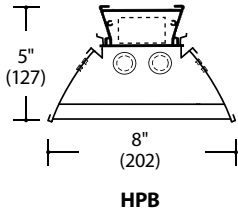


# LITECONTROL

Fixture Type:

Project Name:



**SDX™**

P-S/D-1800, S-S/D-1800

Pendant-Mounted Semi-Direct  
Surface-Mounted Semi-Direct

## Product Description

Extruded aluminum semi-direct fixture with tapered multi-grooved sides. This fixture is Cradle to Cradle Certified™ Silver by MBDC.

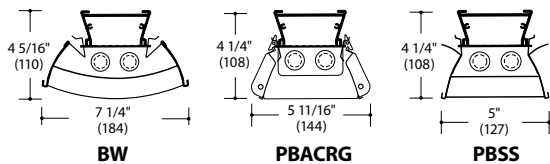
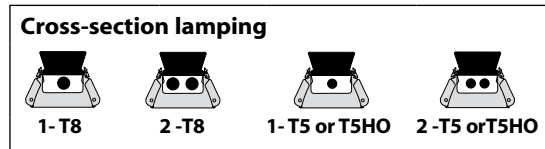
## Ordering Guide

Product, Lamping, & Length						Options											
<b>P -</b>	<b>S/D -</b>	<b>18</b>	<b>4</b>	<b>8</b>	<b>T8 -</b>	<b>PBACRG -</b>	<b>CWM -</b>	<b>ELB10 -</b>	<b>TW -</b>	<b>1CWQ -</b>	<b>LP/EF -</b>	<b>120</b>					
Mounting <b>P</b> Pendant-Mounted <b>S</b> Surface-Mounted	Distribution <b>S/D</b> Semi-Direct	Series <b>18</b>	Lamp Count <b>1, 2 →</b> <b>2, 4 →</b> <b>3, 6 →</b>	Nominal Length (ft) <b>4</b> <b>8</b> <b>12</b>	Lamp Type <b>T8</b> <b>T5</b> <b>T5HO</b>	Baffle <b>BW</b> <b>HPB</b> <b>PBACRG</b> <b>PBSS</b>	Finish <b>CWM</b> (Matte White) is standard	Ballast <b>ELB10</b> is std. for T8 <b>LP/ELB</b> is std. for T5 or T5HO <b>DA/MK7</b> <b>LPD/DIO</b> <b>LPD/MK7</b>	Tandem-Wiring <b>--</b> <b>TW</b>	Circuiting <b>1CWQ</b> <b>2CWQ</b>	Other Options <b>LP/EF</b> <b>F</b> see <b>Other Options</b>	Volts <b>120</b> <b>277</b>					
<b>Mounting Options</b> - add to end of catalog number <b>Aircraft Cable</b> <input type="checkbox"/> <b>FAI/ACC</b> (field adjustable) <i>standard</i> <b>Stems</b> <input type="checkbox"/> <b>P6S</b> (stem) <input type="checkbox"/> <b>SC/P6</b> (sloped ceiling) <input type="checkbox"/> <b>EQ/P6</b> (earthquake)						see notes						see <b>Baffle Options</b>					
see notes						see <b>LiteColors™</b> in product guide for other finishes						see <b>Ballast Options</b>					

**notes:**

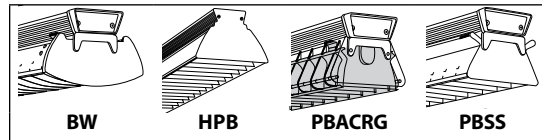
Lamp Count = total number of lamps in the fixture  
Tandem Wiring not available for one-lamp cross-section fixtures.  
**For Ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.**

**P-S/D-1848T8-PBACRG-CWM -ELB10-TW-2CWQ-LP/EF-120-FAI/ACC** is a typical catalog number for a 4-lamp (2-lamps in cross-section) semi-direct, 8-foot long T8 fixture with acrylic blade baffles, Matte White finish, tandem-wired low-profile electronic ballast, pre-wired with two-circuit branch wiring and quick-connects, low-profile emergency fluorescent ballast, 120 volts, mounted with field adjustable aircraft cables.



## Baffle Options

- HPB** Semi-specular aluminum baffle-sides, baffle-blades, and articulated fixture-reflector above the lamps provide a concentrated downlight. Blades are spaced 1 1/2" OC. Baffle splines are pre-installed onto the baffles at the factory and are captive, requiring only to be slid into position between baffles.
- BW** Blade Baffle, White. Die-formed .050" thick aluminum side reflectors and baffle blades finished Matte White (CWM). Blades are spaced 1 1/2" OC. Open design provides a wide, efficient downlight distribution and allows for indirect light distribution between the housing and side reflectors.
- PBACRG** Acrylic Blade Baffle, Tinted Green. Semi-specular side reflectors support 1/8" thick acrylic blades spaced 1 1/2" OC. Light green coloring within acrylic material provides slight accent to edge lighting of individual blades. Light transmitted through the baffle sides gives the entire fixture a bright glass-like appearance.
- PBSS** Parabolic Baffle, Semi-specular. Low iridescence anodized aluminum, with parabolic blades spaced 1 1/2" OC, designed for well-controlled narrow downlight distribution. Flared upper reflectors provide openings and reflective surfaces for indirect distribution.



## Ballast Options

Specify in place of **ELB10** or **LP/ELB**  
Contact factory for availability/compatibility with lamping:  
**DA/MK7** Advance Mark VII Dimming Ballast.  
**LPD/DIO** Osram Sylvania Dimming Ballast.  
**LPD/MK7** Lutron ECO-10 Dimming Ballast.

## Other Options

- F** Fuse installed, slow or fast blow, determined by Litecontrol.
- LP/EF** Low-profile emergency fluorescent ballast installed, manufactured by a UL-listed manufacturer, that will operate one lamp for 1 1/2 hours during a power outage.

## Questions to Ask

1. Row information, including desired fixture lengths?
2. Lamp type? 3. Ballast options?
4. Controls solutions? 5. Other options? 6. 120 or 277 volt?

Click on **Quick Find 18**



litecontrol.com

### Tandem Wiring & Circuiting Options

- 1CWQ** Fixture is wired with a single circuit so that all lamps are switched together.
- TW-2CWQ** Fixtures wired with two circuits. For 2-lamp in cross section fixtures, the fixture is wired such that the in-line lamps are switched separately. For 3-lamp in cross section fixtures, the fixture is wired such that the in-line center lamps are switched separately from the in-line outer lamps.

### Specifications

**HOUSING.** 6063 T6 extruded aluminum with tapered, multi-grooved sides. For precise joining, pendant bracket slides between and aligns fixtures. Available in nominal 4', 8' and 12' lengths.

**END CAPS.** End caps are sculptured die cast aluminum, painted to match the housing. Lower portion of end cap is detailed to match the profile of the diffuser specified.

**BAFFLES.** Available in four baffle styles, PBACRG, PBSS, BW, and HPR. All baffle assemblies are attached to the fixture housing and held in place by spring clips that allow for easy baffle removal and relamping without tools. Joining splines are provided for alignment of baffles at row joints. See Baffles for descriptions of each baffle type.


**LAMPING.** One- and two-lamp T8, T5 or T5HO in cross-section. Simple spring clip attachment allows for easy baffle removal to access/replace lamps without tools.

**BALLAST.** Electronic Ballast (**ELB** - for T8 lamping) or Low-profile Electronic Ballast (**LP/ELB** - for T5 or T5HO lamping), high power factor, thermally protected Class P, Sound Rated A, less than 10% THD, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

**TANDEM WIRING.** When selected from Ordering guide below, fixtures wired to switch in-line lamps separately, providing two (two-lamp cross-section fixtures only) levels of light.

**PRE-WIRING.** Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory-installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-Wiring Information for details.

**MOUNTING.** Fixtures can be either surface mounted or suspended for precise joining. A sliding, multi-purpose pendant bracket is used for aircraft cable or stem attachment at an end-of-row mounting position, centered between two fixtures at a row joint, or at any available location along the fixture length. Standard suspension provided is field adjustable aircraft cable (**FAI/ACC**) with a 51" length cable. See Aircraft Cables and Stems for details.

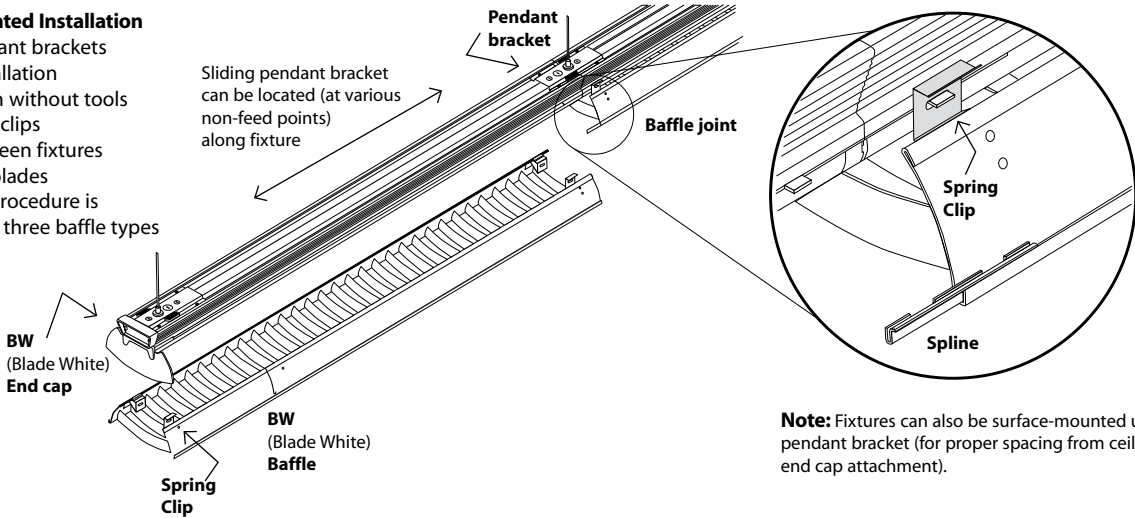
**CERTIFICATION.** Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label. 

Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

### Planning for installation

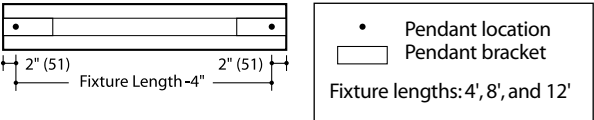
#### Pendant- Mounted Installation

- Sliding pendant brackets for easy installation
- Baffles attach without tools using spring clips
- Splines between fixtures align baffle blades
- Installation procedure is similar for all three baffle types

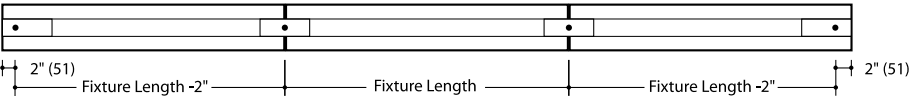


**Note:** Fixtures can also be surface-mounted using pendant bracket (for proper spacing from ceiling for end cap attachment).

#### Individual fixture



#### Row diagram



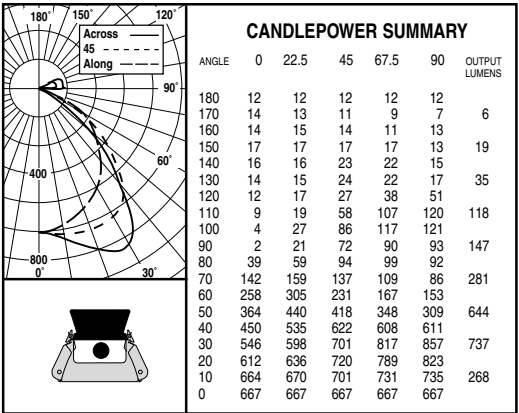
**LITECONTROL**

employee owned | customer driven

100 Hawks Avenue Hanson, MA 02341  
781 294 0100 f: 781 293 2849 litecontrol.com



Photometric data T8 lamps



**P-S/D-1814T8-PBACRG-LP/ELB 77.4% Efficiency**  
Litecontrol Certified Test Report #32911990

RCC	80			70			50			30			10			0		
	70	50	30	10	70	50	30	10	50	30	10	50	30	10				
RCR	0	.90	.90	.90	.87	.87	.87	.87	.81	.81	.81	.76	.76	.76	.71	.71	.71	.69
1	.83	.79	.76	.74	.80	.77	.74	.72	.72	.70	.68	.68	.66	.64	.64	.62	.61	.59
2	.76	.70	.66	.62	.74	.68	.64	.60	.64	.61	.58	.60	.58	.55	.57	.55	.53	.51
3	.70	.63	.57	.53	.68	.61	.56	.52	.58	.53	.50	.54	.51	.48	.51	.48	.46	.44
4	.65	.56	.50	.45	.62	.55	.49	.44	.52	.47	.43	.49	.45	.42	.46	.43	.40	.38
5	.59	.50	.44	.39	.57	.49	.43	.38	.46	.41	.37	.44	.39	.36	.42	.38	.35	.33
6	.55	.45	.39	.34	.53	.44	.38	.33	.42	.36	.32	.40	.35	.32	.38	.34	.31	.29
7	.50	.41	.34	.30	.49	.40	.34	.29	.38	.32	.29	.36	.31	.28	.34	.30	.27	.25
8	.47	.36	.30	.26	.45	.35	.30	.25	.34	.29	.25	.32	.28	.24	.31	.27	.23	.22
9	.43	.33	.27	.22	.41	.32	.26	.22	.30	.25	.22	.29	.24	.21	.28	.23	.20	.19
10	.40	.30	.24	.20	.38	.29	.23	.19	.28	.23	.19	.26	.22	.18	.25	.21	.18	.17

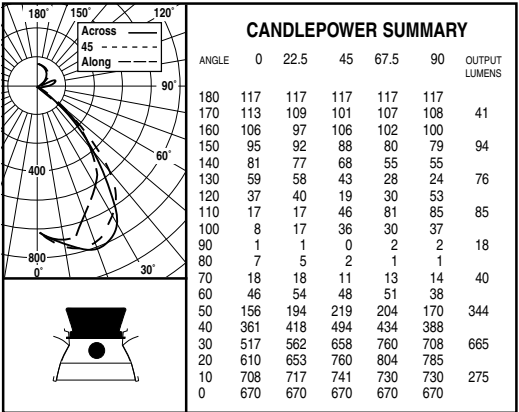
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	248	8.58	11.08
90-0°	1996	68.85	88.92
180-0°	2245	77.44	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°
45°	1138	1409	1212
55°	1075	1059	670
65°	927	702	397
75°	651	740	561
85°	112	1300	1225



**P-S/D-1814T8-PBSS-LP/ELB 56.2% Efficiency**  
Litecontrol Certified Test Report #32911340

RCC	80			70			50			30			10			0		
	70	50	30	10	70	50	30	10	50	30	10	50	30	10				
RCR	0	.64	.64	.64	.62	.62	.62	.62	.57	.57	.57	.52	.52	.52	.48	.48	.48	.46
1	.61	.59	.57	.56	.58	.57	.55	.54	.52	.51	.50	.48	.48	.47	.45	.44	.44	.42
2	.57	.53	.51	.48	.54	.51	.49	.47	.48	.46	.44	.45	.43	.42	.42	.41	.40	.38
3	.53	.49	.45	.43	.51	.47	.44	.42	.44	.42	.40	.41	.39	.38	.39	.37	.36	.34
4	.49	.44	.41	.38	.47	.43	.40	.37	.40	.38	.35	.38	.36	.34	.36	.34	.32	.31
5	.46	.40	.36	.33	.44	.39	.35	.33	.37	.34	.32	.35	.32	.30	.33	.31	.29	.28
6	.43	.37	.33	.30	.41	.36	.32	.29	.34	.31	.28	.32	.29	.27	.30	.28	.26	.25
7	.40	.34	.30	.27	.38	.33	.29	.26	.31	.28	.25	.29	.27	.25	.28	.25	.24	.23
8	.37	.30	.27	.24	.36	.30	.26	.23	.28	.25	.23	.27	.24	.22	.25	.23	.21	.20
9	.34	.28	.24	.21	.33	.27	.23	.21	.26	.22	.20	.24	.21	.19	.23	.21	.19	.18
10	.32	.25	.21	.19	.31	.25	.21	.18	.23	.20	.18	.22	.19	.17	.21	.19	.17	.16

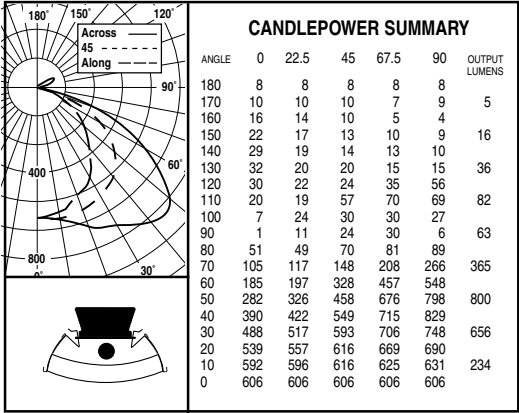
Floor Cavity Reflectance .20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	306	10.58	18.82
90-0°	1323	45.63	81.18
180-0°	1630	56.21	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°
45°	768	989	776
55°	311	406	271
65°	136	145	110
75°	119	35	33
85°	24	34	30



**P-S/D-1814T8-BW-LP/ELB 77.5% Efficiency**  
Litecontrol Certified Test Report #32911300

RCC	80			70			50			30			10			0		
	70	50	30	10	70	50	30	10	50	30	10	50	30	10				
RCR	0	.91	.91	.91	.88	.88	.88	.88	.83	.83	.83	.78	.78	.78	.74	.74	.74	.72
1	.84	.80	.77	.74	.81	.78	.75	.73	.74	.72	.69	.70	.68	.66	.66	.65	.64	.62
2	.76	.71	.66	.62	.74	.69	.64	.60	.65	.61	.58	.62	.59	.56	.59	.56	.54	.52
3	.70	.62	.56	.52	.68	.61	.55	.51	.58	.53	.49	.55	.51	.48	.52	.49	.46	.45
4	.64	.55	.49	.44	.62	.54	.48	.43	.51	.46	.42	.49	.45	.41	.47	.43	.40	.38
5	.58	.49	.42	.37	.56	.48	.41	.36	.45	.40	.36	.43	.38	.35	.41	.37	.34	.32
6	.54	.43	.37	.32	.52	.42	.36	.31	.40	.35	.31	.39	.34	.30	.37	.33	.29	.28
7	.49	.39	.32	.27	.48	.38	.31	.27	.36	.30	.26	.35	.29	.26	.33	.29	.25	.24
8	.45	.34	.28	.23	.44	.34	.27	.23	.32	.27	.23	.31	.26	.22	.30	.25	.22	.20
9	.41	.31	.24	.20	.40	.30	.24	.20	.29	.23	.19	.28	.23	.19	.26	.22	.18	.17
10	.38	.28	.22	.17	.37	.27	.21	.17	.26	.21	.17	.25	.20	.16	.24	.19	.16	.15

Floor Cavity Reflectance .20

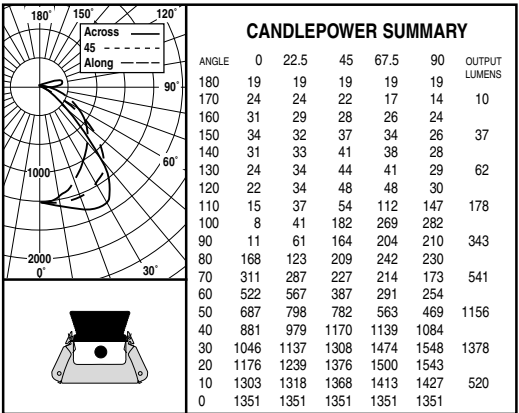
**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	154	5.33	6.88
90-0°	2091	72.14	93.12
180-0°	2246	77.46	100.00

**LUMINANCE SUMMARY (fL)**

ANGLE	0°	45°	90°
45°	679	985	1618
55°	560	940	1608
65°	486	719	1258
75°	415	456	706
85°	433	504	394

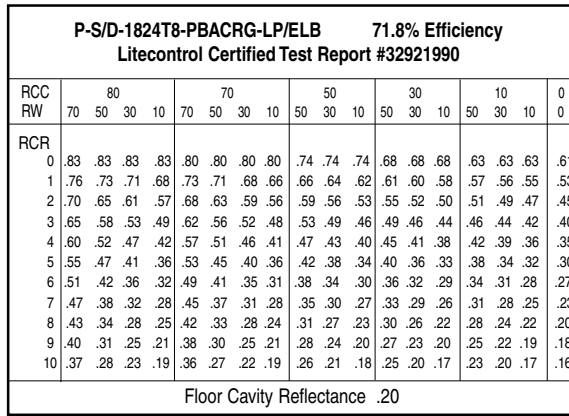
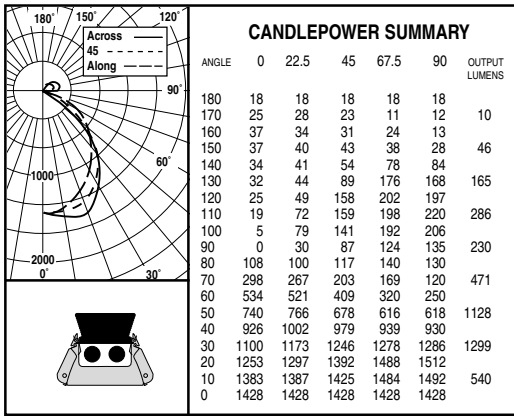
Photometric data T5HO lamps



**P-S/D-1814T5HO-PBACRG-LP/ELB 84.3% Efficiency**  
Litecontrol Certified Test Report #32916990

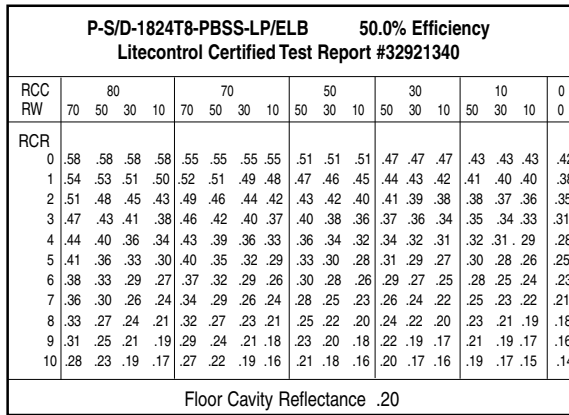
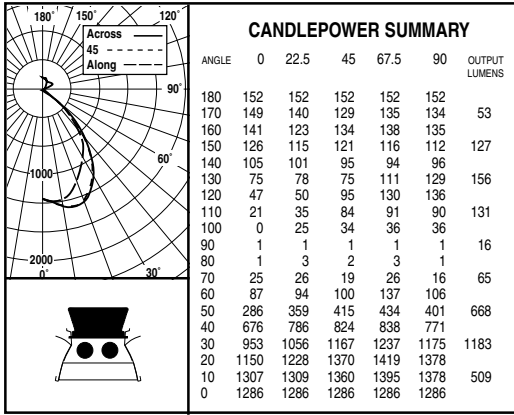
RCC	80			70			50			30			10			0
	70	50	30	10	70	50	30	10	50							

Photometric data T8 lamps



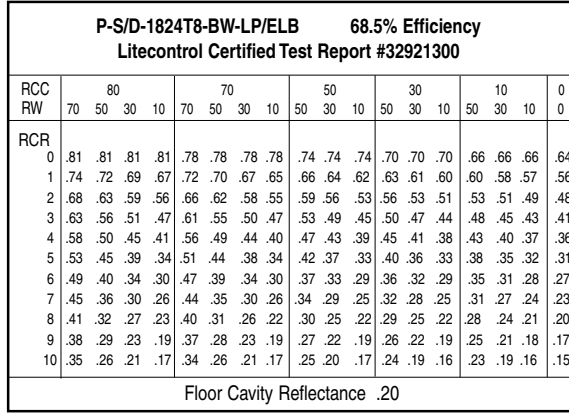
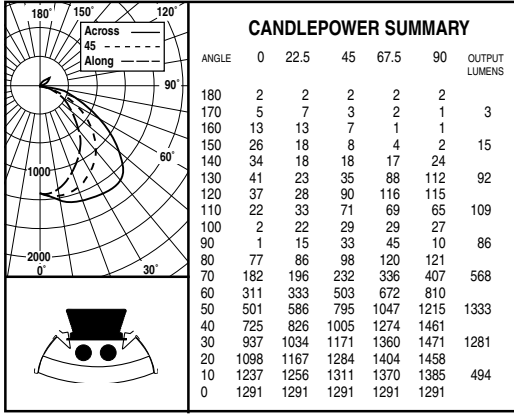
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	628	10.84	15.10
90-0°	3536	60.98	84.90
180-0°	4165	71.82	100.00

ANGLE	0°	45°	90°
45°	2323	2216	2019
55°	2168	1769	1354
65°	1914	1270	612
75°	1490	1002	780
85°	899	1593	1911



ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	477	8.22	16.45
90-0°	2422	41.77	83.55
180-0°	2899	50.00	100.00

ANGLE	0°	45°	90°
45°	1452	1255	1039
55°	554	543	468
65°	218	100	73
75°	63	18	12
85°	24	8	3



ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	236	4.07	5.94
90-0°	3736	64.42	94.06
180-0°	3972	68.49	100.00

ANGLE	0°	45°	90°
45°	1226	1393	1938
55°	949	1146	1559
65°	806	711	1062
75°	674	403	466
85°	449	228	148

Photometric data T5HO lamps

