

P-D-7200



**Mod™**  
P-D-7200, S-D-7200  
Pendant-Mounted Direct  
Surface-Mounted Direct

## Product Description

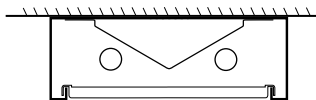
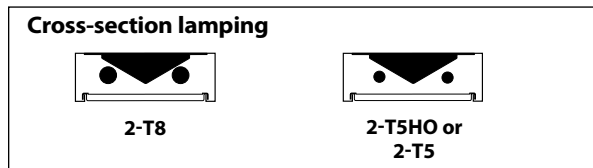
Linear modular direct luminaire which offers a variety of shielding options. UL Listed. This fixture is Cradle to Cradle Silver Certified™ by MBDC.

## Ordering Guide

Product, lamping, & length					
P -	D -	72	4	8	T5HO -
Mounting	Distribution	Series	Lamp Count	Nominal Length (ft)	Lamp Type
<b>P</b> Pendant-Mounted	<b>D</b> Direct	72	2 →	2 →	T8
<b>S</b> Surface-Mounted			2 →	3 →	
see notes			2 →	4 →	
			4 →	6 →	
			4 →	8 →	T5 T5HO
			2 →	3 →	
			2 →	4 →	
			4 →	6 →	
			4 →	8 →	
<b>Mounting Options</b> - add to end of catalog number			see notes		
<b>Aircraft Cables</b> <input type="checkbox"/> FAI/ACC (field adjustable) standard					
<b>Stems</b> <input type="checkbox"/> P6S (stem) <input type="checkbox"/> SC/P6 (sloped ceiling) <input type="checkbox"/> EQ/P6 (earthquake)					

Options						
BW -	TCWM -	LP/ELB -	TW -	2CWQ -	F -	120
Baffle or Diffuser	Finish	Ballast	Tandem Wiring	Circuiting	Other options	Volts
<b>BA</b> <b>BW</b> <b>SGL</b>	<b>TCWM</b> (textured matte white) is standard	<b>ELB10</b> is std. for T8 <b>LP/ELB</b> is std. for T5 or T5HO	-- → <b>TW</b> →	<b>1CWQ</b> <b>2CWQ</b>	<b>F</b> <b>LP/EF</b>  see <b>Other options</b>	<b>120</b> <b>277</b>
see <b>Baffle &amp; Diffuser Options</b>	see <b>LiteColors™</b> for other finishes	<b>DA/MK7</b> <b>DA/MK10</b> <b>DL/ECO</b> <b>DO/HEL</b>				
		see <b>Ballast Options</b>				
					<b>notes:</b> Lamp count = total number of lamps in the fixture For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.	

P-D-7248T5HO-BW-TCWM-LP/ELB-TW-2CWQ-F-120- FAI/ACC is a typical catalog number for a 4-lamp (2 lamps in cross-section), 8-foot long, high-output T5 fixture with white blade baffle, textured matte white finish, low-profile electronic ballast, tandem-wired, pre-wired with two-circuit branch wiring and quick-connects, fuse, 120 volts, mounted with field adjustable aircraft cables.



S-D-7200

## Baffle & Diffuser Options

- BA** Blade Baffle, Metallic Gray. 3/8" high and 1/2" OC.
- BW** Blade Baffle, White. 3/8" high and 1/2" OC.
- SGL** Soft Glow Lens. Extruded, frosted acrylic, flush to bottom of fixture housing.

## Ballast Options

- DA/MK7** Advance Mark VII dimming ballast
- DA/MK10** Advance Mark X dimming ballast
- DL/ECO** Lutron ECO-10 dimming ballast
- DO/HEL** Osram Sylvania dimming ballast

## 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. 2-lamp in cross section fixtures, the fixture is wired such that the in-line lamps are switched separately.

## Other Options

- F** Fuse. Slow or fast blow, determined by Litecontrol.
- LP/EF** Low-profile Emergency Fluorescent Ballast. Battery-powered ballast from a UL Listed manufacturer will operate one lamp for 1 1/2 hours.

## Questions to Ask

1. Row information, including desired fixture lengths?
2. Lamp type?
3. Diffuser type?
4. White, LiteColor, or special color?
5. Ballast options?
6. Tandem wiring?
7. Other options?
8. 120 or 277 volt?



## Specifications

**HOUSING.** Die-formed and welded steel, with 1/2" return at housing bottom for rigidity and appearance, furnished with 6" long, steel splines for insertion at each side of housing at junction of fixtures in rows for precise alignment. End headers have clearance holes for easy row installation and are notched under lamps for more even diffuser luminance and continuous baffle appearance.

**END CAPS.** Steel, 14-gauge, with no holes or knockouts, finished to match housing. Two fasteners on each end cap allow tight attachment to ends of individual fixtures and ends of rows.

**REFLECTORS.** Die-formed steel with high-reflectance white finish.

**LAMPING.** Available in two-lamp T5, T5HO, or T8 in cross-section.

**BALLAST.** Electronic Ballast (**ELB10** - 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 levels of light.

**BALLAST DISCONNECT.** Fixture supplied with a ballast disconnect device to enable compliance with the NEC.

**CIRCUITING.** 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 with special circuits such as night light and emergency, in-field wiring may be required. See Pre-wiring information in the Litecontrol Product Guide for details.

**SYSTEM CONNECTORS.** (P-D only) Corners, tees, and crosses available. Die-formed steel. Bottom and exposed sides to be smooth with no exposed fasteners or knockouts. Each system connector shall have a rigid cross-member with a .687" diameter stem hole at center to accept any of Litecontrol's pendant assemblies.

**MOUNTING.** Fixture may be either surface-mounted or pendant-mounted using Litecontrol's standard suspension system.

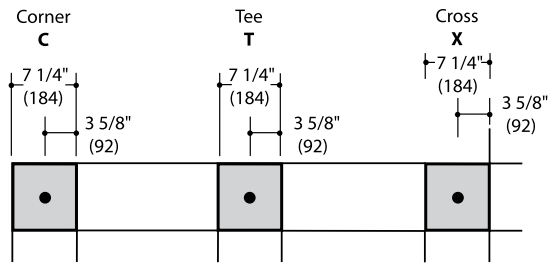
**CERTIFICATION.** Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label.  This fixture is Cradle to Cradle Certified™ Silver by MBDC. Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

## System Connectors

### Catalog Number

Series - Connector - Finish
P-D, S-D-7200 C
P-D, S-D-7200 T
P-D, S-D-7200 X

P-D-7200-C-CWM is a typical catalog number for a 90° corner connector finished Matte White.



## Planning for installation

### Suspension Assemblies

Provided with P6S (5/8" dia., 3/8" NPT) stems, or 3/32" diameter field adjustable aircraft cables (**FAI/ACC**) in 51" lengths (4' nominal). Stems with 0-45° swivel joints are available. Longer length aircraft cables of 87" and 219" are available upon request. See Stems & Aircraft Cables sheets for further details.

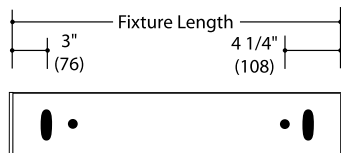
### Stem Lengths



P6S stems are available in eight standard lengths from 6" to 36" (nominal). The actual ceiling-to-top-of-fixture dimensions for each of the standard lengths are: 6", 9", 12", 15", 18", 24", 28", and 36". Refer to Standard Length Stem Assemblies sheet for dimensional information on sloped ceiling (**SC/P6**) and earthquake (**EQ/P6**) stem assemblies.

### Suspension mounting locations

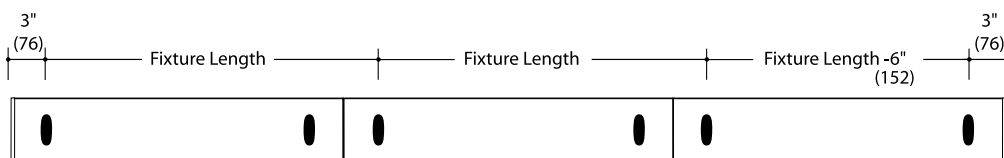
Pendant locations at ends of rows (or individual fixtures) are 3" from fixture end. Pendant locations at in-row joints are 3" from the joint. All pendant types (cable or stem) attach to universal flat strap for mounting either at a fixture end or across two fixtures at a row joint. Strap attachment allows for horizontal adjustment to "fine-tune" side-to-side leveling.

### Individual Fixture



Fixture Lengths: 2', 3', 4', 6', and 8'  
 7/8" obround knockout, for pendant locations  
 5/8" diameter knockout, electrical feed

### Row Diagram

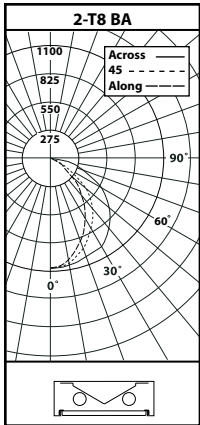


LITECONTROL

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Photometric data T8



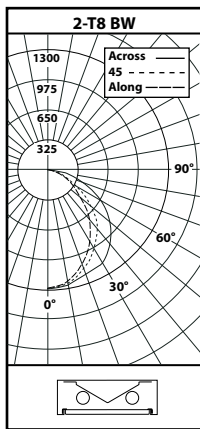
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	6	4	4	3	4	
85	4	7	6	17	27	21
75	42	45	58	97	261	96
65	102	105	138	294	448	207
55	185	221	346	525	679	344
45	399	433	564	721	838	451
35	606	634	734	881	967	475
25	800	819	876	964	1019	414
15	964	972	1008	1045	1061	286
5	1078	1078	1077	1088	1088	103
0	1091	1091	1091	1091	1091	

P-D-7224T8-BA 41.2% Efficiency																					
Litecontrol Certified Test Report #62624310																					
RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	.49	.49	.49	.49	.48	.48	.48	.48	.46	.46	.46	.44	.44	.44	.42	.42	.42	.41			
1	.46	.44	.43	.41	.45	.43	.42	.41	.41	.40	.39	.40	.39	.38	.38	.38	.37	.36			
2	.42	.39	.37	.35	.41	.39	.37	.35	.37	.36	.34	.36	.35	.33	.35	.34	.32	.32			
3	.39	.35	.33	.30	.38	.35	.32	.30	.34	.31	.30	.33	.31	.29	.32	.30	.29	.28			
4	.36	.32	.29	.26	.35	.31	.28	.26	.30	.28	.26	.29	.27	.25	.29	.27	.25	.24			
5	.33	.29	.25	.23	.32	.28	.25	.23	.27	.24	.22	.26	.24	.22	.26	.24	.22	.21			
6	.31	.26	.22	.20	.30	.25	.22	.20	.25	.22	.20	.24	.21	.20	.23	.21	.19	.19			
7	.28	.23	.20	.18	.28	.23	.20	.17	.22	.19	.17	.22	.19	.17	.21	.19	.17	.16			
8	.26	.21	.18	.15	.26	.21	.17	.15	.20	.17	.15	.20	.17	.15	.19	.17	.15	.14			
9	.24	.19	.16	.13	.24	.19	.16	.13	.18	.15	.13	.18	.15	.13	.17	.15	.13	.12			
10	.22	.17	.14	.12	.22	.17	.14	.12	.17	.14	.12	.16	.14	.12	.16	.13	.12	.11			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	2391	41.24	100.00
180-0°	2391	41.24	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	819	1160	1724
55°	466	878	1723
65°	351	476	1544
75°	234	324	1468
85°	74	98	459



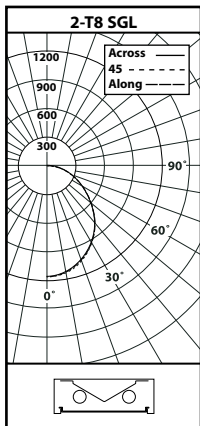
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	6	4	6	6	6	
85	29	29	30	35	52	47
75	123	125	137	179	316	177
65	235	239	271	421	541	332
55	381	404	513	675	790	489
45	600	633	747	888	975	590
35	819	846	923	1061	1123	596
25	1006	1032	1080	1140	1186	504
15	1172	1176	1204	1245	1235	342
5	1273	1270	1274	1280	1281	122
0	1285	1285	1285	1285	1285	

P-D-7224T8-BW 55.1% Efficiency																					
Litecontrol Certified Test Report #62624300																					
RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	.66	.66	.66	.66	.64	.64	.64	.61	.61	.61	.59	.59	.59	.56	.56	.56	.55				
1	.61	.58	.56	.54	.59	.57	.55	.54	.55	.53	.52	.53	.51	.50	.51	.50	.49	.48			
2	.56	.52	.48	.46	.54	.51	.48	.45	.49	.46	.44	.47	.45	.43	.45	.44	.42	.41			
3	.51	.46	.42	.39	.50	.45	.42	.39	.44	.40	.38	.42	.40	.37	.41	.39	.37	.35			
4	.47	.41	.37	.33	.46	.41	.36	.33	.39	.36	.33	.38	.35	.32	.37	.34	.32	.31			
5	.43	.37	.32	.29	.42	.36	.32	.28	.35	.31	.28	.34	.30	.28	.33	.30	.27	.26			
6	.40	.33	.28	.25	.39	.32	.28	.25	.31	.28	.25	.31	.27	.24	.30	.27	.24	.23			
7	.37	.30	.25	.22	.36	.29	.25	.22	.28	.24	.22	.28	.24	.21	.27	.24	.21	.20			
8	.34	.27	.22	.19	.33	.26	.22	.19	.26	.22	.19	.25	.21	.19	.24	.21	.19	.17			
9	.31	.24	.20	.16	.31	.24	.19	.16	.23	.19	.16	.22	.19	.16	.22	.19	.16	.15			
10	.29	.22	.17	.15	.28	.22	.17	.15	.21	.17	.14	.21	.17	.14	.20	.17	.14	.13			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	3193	55.06	100.00
180-0°	3193	55.06	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1230	1537	2006
55°	962	1302	2005
65°	806	933	1862
75°	686	768	1775
85°	479	505	868



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	4	6	4	6	4	
85	52	53	50	50	53	63
75	189	189	195	190	198	206
65	350	353	359	352	357	353
55	530	528	528	528	530	475
45	709	703	702	708	703	546
35	871	866	865	871	869	545
25	1013	1003	1003	1003	1003	465
15	1114	1106	1107	1110	1095	314
5	1161	1158	1158	1162	1159	111
0	1167	1167	1167	1167	1167	

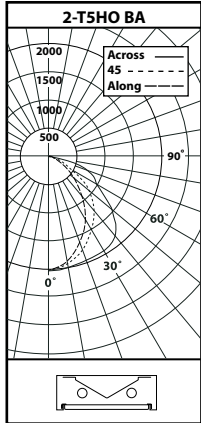
P-D-7224T8-SGL 53.0% Efficiency																					
Litecontrol Certified Test Report #62624600																					
RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	.63	.63	.63	.63	.62	.62	.62	.62	.59	.59	.59	.56	.56	.56	.54	.54	.54	.53			
1	.58	.56	.54	.52	.57	.55	.53	.51	.52	.51	.49	.50	.49	.48	.48	.47	.46	.45			
2	.53	.49	.46	.43	.52	.48	.45	.42	.46	.44	.41	.45	.43	.41	.43	.41	.40	.39			
3	.49	.44	.40	.36	.48	.43	.39	.36	.41	.38	.35	.40	.37	.35	.39	.36	.34	.33			
4	.45	.39	.35	.31	.44	.38	.34	.31	.37	.33	.31	.36	.33	.30	.35	.32	.30	.29			
5	.41	.35	.30	.26	.40	.34	.30	.26	.33	.29	.26	.32	.28	.26	.31	.28	.25	.24			
6	.38	.31	.26	.23	.37	.30	.26	.23	.30	.26	.23	.29	.25	.23	.28	.25	.22	.21			
7	.35	.28	.23	.20	.34	.27	.23	.20	.27	.23	.20	.26	.22	.20	.25	.22	.20	.19			
8	.32	.25	.21	.18	.31	.25	.20	.17	.24	.20	.17	.23	.20	.17	.23	.20	.17	.16			
9	.30	.23	.18	.15	.29	.22	.18	.15	.22	.18	.15	.21	.17	.15	.21	.17	.15	.14			
10	.28	.21	.16	.13	.27	.20	.16	.13	.20	.16	.13	.19	.16	.13	.19	.16	.13	.12			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	3073	52.98	100.00
180-0°	3073	52.98	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1454	1445	1448
55°	1341	1339	1346
65°	1202	1236	1231
75°	1059	1092	1111
85°	864	842	892

Photometric data T5HO



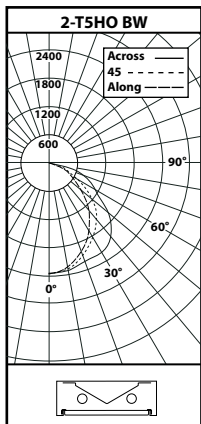
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	15	15	15	15	11	
85	11	7	11	11	58	33
75	73	69	102	174	523	176
65	181	193	236	534	889	380
55	348	403	675	958	1201	638
45	722	813	1104	1438	1666	871
35	1118	1162	1379	1703	1902	901
25	1467	1510	1641	1819	1932	771
15	1771	1790	1859	1942	1975	528
5	1993	1993	1993	2019	2015	191
0	2028	2028	2028	2028	2028	

P-D-7224T5HO-BA 49.8% Efficiency																		
Litecontrol Certified Test Report #62626310																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.59	.59	.59	.59	.58	.58	.58	.55	.55	.55	.53	.53	.53	.51	.51	.51	.50	
1	.55	.53	.52	.50	.54	.52	.51	.49	.50	.49	.48	.48	.47	.46	.46	.46	.45	.44
2	.51	.48	.45	.42	.50	.47	.44	.42	.45	.43	.41	.44	.42	.40	.42	.41	.39	.38
3	.47	.43	.39	.37	.46	.42	.39	.36	.41	.38	.36	.39	.37	.35	.38	.36	.35	.34
4	.44	.38	.35	.32	.43	.38	.34	.32	.37	.34	.31	.36	.33	.31	.34	.32	.30	.29
5	.40	.34	.30	.27	.39	.34	.30	.27	.33	.30	.27	.32	.29	.27	.31	.29	.26	.25
6	.37	.31	.27	.24	.36	.31	.27	.24	.30	.26	.24	.29	.26	.24	.28	.25	.23	.22
7	.34	.28	.24	.21	.34	.28	.24	.21	.27	.23	.21	.26	.23	.21	.26	.23	.21	.20
8	.32	.25	.21	.19	.31	.25	.21	.18	.24	.21	.18	.24	.21	.18	.23	.20	.18	.17
9	.29	.23	.19	.16	.29	.23	.19	.16	.22	.18	.16	.21	.18	.16	.21	.18	.16	.15
10	.27	.21	.17	.14	.27	.20	.17	.14	.20	.17	.14	.20	.16	.14	.19	.16	.14	.13

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	4484	49.83	100.00
180-0°	4484	49.83	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1481	2272	3430
55°	881	1714	3049
65°	622	813	3062
75°	408	571	2941
85°	186	186	975



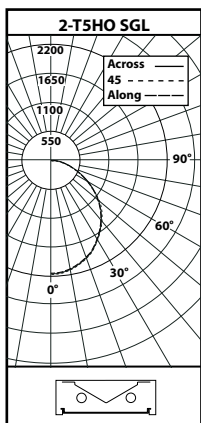
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	15	11	15	15	15	
85	44	44	51	73	87	82
75	232	232	251	319	621	327
65	436	450	494	741	1031	604
55	704	737	966	1209	1405	893
45	1100	1176	1409	1703	1906	1113
35	1510	1550	1721	2004	2174	1114
25	1859	1895	1971	2138	2218	931
15	2153	2156	2200	2265	2279	626
5	2338	2327	2338	2353	2342	223
0	2361	2361	2361	2361	2361	

P-D-7224T5HO-BW 65.6% Efficiency																		
Litecontrol Certified Test Report #62626300																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.78	.78	.78	.78	.76	.76	.76	.73	.73	.73	.70	.70	.70	.67	.67	.67	.66	
1	.72	.70	.67	.65	.71	.68	.66	.64	.65	.63	.62	.63	.61	.60	.60	.59	.58	.57
2	.66	.62	.58	.54	.65	.60	.57	.54	.58	.55	.52	.56	.54	.51	.54	.52	.50	.49
3	.61	.55	.50	.46	.60	.54	.50	.46	.52	.48	.45	.50	.47	.44	.49	.46	.44	.42
4	.56	.49	.44	.40	.55	.48	.44	.40	.47	.42	.39	.45	.42	.39	.44	.41	.38	.37
5	.52	.44	.38	.34	.50	.43	.38	.34	.42	.37	.34	.40	.36	.33	.39	.36	.33	.32
6	.48	.39	.34	.30	.46	.39	.33	.30	.38	.33	.29	.36	.32	.29	.35	.32	.29	.28
7	.44	.35	.30	.26	.43	.35	.30	.26	.34	.29	.26	.33	.29	.25	.32	.28	.25	.24
8	.41	.32	.26	.23	.40	.31	.26	.23	.30	.26	.22	.30	.25	.22	.29	.25	.22	.21
9	.37	.29	.23	.20	.36	.28	.23	.20	.27	.23	.19	.27	.22	.19	.26	.22	.19	.18
10	.35	.26	.21	.17	.34	.26	.21	.17	.25	.20	.17	.24	.20	.17	.24	.20	.17	.16

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	5907	65.64	100.00
180-0°	5907	65.64	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	2256	2900	3923
55°	1780	2451	3565
65°	1495	1700	3551
75°	1302	1405	3491
85°	730	843	1459



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	18	14	7	15	15	
85	102	94	98	102	102	121
75	374	377	377	363	367	395
65	668	668	672	668	672	667
55	984	991	1002	1006	1002	895
45	1307	1307	1329	1336	1336	1024
35	1626	1619	1626	1633	1623	1021
25	1877	1873	1891	1888	1884	870
15	2062	2058	2066	2073	2062	584
5	2160	2145	2160	2156	2163	206
0	2173	2173	2173	2173	2173	

P-D-7224T5HO-SGL 64.2% Efficiency																		
Litecontrol Certified Test Report #62626600																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.76	.76	.76	.76	.75	.75	.75	.75	.71	.71	.71	.68	.68	.68	.66	.66	.66	.64
1	.70	.68	.65	.63	.69	.66	.64	.62	.63	.61	.60	.61	.59	.58	.59	.57	.56	.55
2	.64	.60	.55	.52	.63	.58	.54	.51	.56	.53	.50	.54	.51	.49	.52	.50	.48	.47
3	.59	.53	.48	.44	.58	.52	.47	.44	.50	.46	.43	.48	.45	.42	.47	.44	.41	.40
4	.54	.47	.42	.38	.53	.46	.41	.37	.45	.40	.37	.43	.39	.36	.42	.39	.36	.35
5	.50	.42	.36	.32	.48	.41	.36	.32	.40	.35	.31	.38	.34	.31	.37	.34	.31	.29
6	.46	.37	.32	.28	.45	.37	.31	.28	.36	.31	.27	.35	.30	.27	.34	.30	.27	.26
7	.42	.34	.28	.24	.41	.33	.28	.24	.32	.27	.24	.31	.27	.24	.30	.27	.24	.22
8	.39	.30	.25	.21	.38	.30	.25	.21	.29	.24	.21	.28	.24	.21	.27	.24	.21	.19
9	.36	.27	.22	.18	.35	.27	.22	.18	.26	.21	.18	.25	.21	.18	.25	.21	.18	.17
10	.33	.25	.20	.16	.33	.24	.20	.16	.24	.19	.16	.23	.19	.16	.23	.19	.16	.15

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	5777	64.20	100.00
180-0°	5777	64.20	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	2679	2735	2749
55°	2487	2543	2543
65°	2292	2313	2313
75°	2093	2116	2061
85°	1695	1637	1701