

U.S. Patent granted



## SAE P-ID-7700

P-ID-7700 & LS-P-ID-7700

Pendant-Mounted Indirect/Direct

### Product Description

Pendant indirect-direct fixture with a steel housing and one-piece 4' long white steel baffle. UL Listed. This fixture is Cradle Certified<sup>SM</sup> Silver by MBDC. UL Listed. U.S. Patent granted

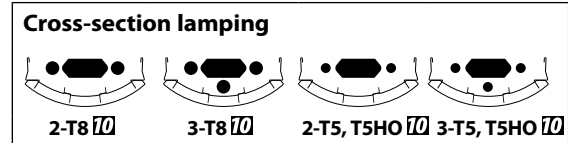
**CS**<sup>TM</sup> Control Solutions available

### Ordering Guide

Product, Lamping, & Length						Options						
<b>P -</b>	<b>ID -</b>	<b>77</b>	<b>6</b>	<b>8</b>	<b>T8 -</b>	<b>BW -</b>	<b>CWM -</b>	<b>ELB10 -</b>	<b>--</b>	<b>1CWQ -</b>	<b>--</b>	<b>120</b>
Mounting	Distribution	Series	Lamp Count	Nominal Length (ft)	Lamp Type	Baffle	Finish	Ballast	Tandem-Wiring	Circuiting	Other Options	Volts
<b>P</b> Pendant-Mounted <b>LS-P</b> LiteSpeed Pendant-Mounted	<b>ID</b> Indirect/ Direct	<b>77</b>	<b>2, 3</b> → <b>4, 6</b> → <b>6, 9</b> →	<b>4</b> <b>8</b> <b>12</b>	<b>T8</b> <b>T5</b> <b>T5HO</b>	<b>BW</b> <b>BWP</b>  see <b>Baffle Options</b>	<b>CWM</b> (Matte White) is standard	<b>ELB10</b> is standard  <b>LPD/ELB</b> <b>LPD/CS/e</b>  see <b>Ballast Options</b>	<b>--</b> <b>1CWQ</b> <b>TW</b> <b>2CWQ</b>	<b>1CWQ</b> <b>2CWQ</b>	<b>CS/dlh*</b> <b>CS/av/PR</b> <b>CS/av/PL</b> <b>F</b>  see <b>Other Options</b>	<b>120</b> <b>277</b>
<b>Mounting Options</b> - add to end of catalog number <b>Aircraft Cable</b> <input type="checkbox"/> FAI/ACC (field adjustable) standard <input checked="" type="checkbox"/> - add LCB for on-grid T-bar canopy box option <b>Stems</b> <input type="checkbox"/> P6S (stem) <input type="checkbox"/> SC/P6 (sloped ceiling) <input type="checkbox"/> EQ/P6 (earthquake)						<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. *Must include a dimming ballast (LPD/ELB). See back for details.						

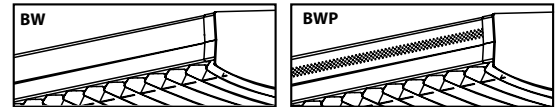
**P-ID-7768T8-BW-CWM-ELB10-1CWQ-120-FAI/ACC** is a typical catalog number for a 6-lamp (3 lamps in cross-section), 8-foot long T8 fixture with Matte White blade baffle, Matte White finish, electronic ballast, pre-wired with one-circuit branch wiring and quick-connects, 120 volts, mounted with field adjustable aircraft cables.

**10 DAY LiteSpeed Quick-SHIP**  
 Many configurations of this fixture are available in our LiteSpeed 10-day quick-ship program. The "10-day" icon  in the descriptions below shows which options are available in LiteSpeed. LiteSpeed orders are shipped within 10 working days of receipt of a released, cleared order. An "LS" prefix is required in front of the ordering number to have the order handled as LiteSpeed. Other configurations not indicated here may be available for 10-day shipment; contact Customer Service for availability. Some restrictions may apply to large orders. All LiteSpeed fixtures are supplied in matte white finish (CWM).



**Baffle Options**

**BW**  Blade Baffle, Textured Matte White.  
**BWP** Blade Baffle, Textured Matte White, Perforated Side Rails. Same as BW baffle with perforated side rails.



**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.

**Ballast Options** **CS**<sup>TM</sup><sub>dlh</sub> **CS**<sup>TM</sup><sub>av</sub>

**LPD/ELB** 0-10V, low-profile dimming electronic ballast manufactured by a UL-Listed manufacturer, as available, determined by Litecontrol. The minimum number of ballasts will be used. Not available for all lamping combinations. Contact factory to specify a specific ballast.

**Other Options**

**CS/dlh** Daylight harvesting solution. See page 2 for details.  
**CS/av** This fixture is compatible with the Litecontrol CS/av control solution. See page 2 for details.  
**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.

**To have the fixture enabled for Lutron EcoSystem compatibility:**  
**LPD/CS/e** EcoSystem low-profile dimming electronic ballasts installed at the factory, along with all required internal EcoSystem wiring. For other configurations of the Lutron EcoSystem components, including custom device connection feeds to enable connection to ceiling-mounted sensors and control devices, consult [litecontrol.com/cs](http://litecontrol.com/cs) or contact the factory.

- 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 77**  
  
[litecontrol.com](http://litecontrol.com)

**To have the fixture supplied with the daylight harvesting control solution:**

Add – **CS/dlh** to the ordering code to have a fixture-integrated daylight sensor by Watt Stopper installed at the factory, along with the appropriate electronic dimming ballast and internal wiring. For row-configured installations, one fixture integrated daylight sensor controls the entire row. Contact factory for details.

**Example of Control Solutions catalog number**

**P-ID-7748T8-BW-CWM-LPD/ELB-1CWQ-CS/dlh-120-FAI/ACC** is the catalog number for a 4-lamp (2 lamp in cross-section) 8-foot long indirect/direct T8 fixture with a blade white baffle, finished Matte White, with low-profile electronic dimming ballast, one-circuit branch wiring and quick connects, includes daylight harvesting control solution (daylight sensor), 120 volts, mounted with field adjustable aircraft cable.

**To order fixtures with the CS/av control solution, the correct fixture code is needed along with a separate code for the CS/av system. Please refer to the CS/av Technical Sheet for details on ordering the system.**

**For the fixture order:**

**ADD CS/av/PR** instead of tandem wiring and circuiting in the fixture catalog number for fixtures that are perpendicular to the presentation area, to control the front 8' of luminaires in each row

**ADD CS/av/PL** instead of tandem wiring and circuiting in the fixture catalog number for fixtures that are parallel to the presentation area, to control the entire front row of fixtures

Ensure that the lamping shown in the fixture code (2-lamp or 3-lamp in cross-section) matches the information in the CS/av system code. Luminaire rows with CS/av/PR will require two feeds which will be supplied as a dual-feed at one end, where available, to maximize installation savings.

**Specifications**

**HOUSING.** Die-formed steel. Wiring channel cover snaps on/off without tools for easy access to ballast and wiring.

**BAFFLE.** One-piece 4' long steel baffle. Radiused Blades are 3/4" high, 1 3/8" OC with four longitudinal shielding rails. Baffles attached to housing with four spring clips. Stainless steel safety tethers are provided at each end to maintain positive attachment to the housing. For 2-lamp cross sections, lamps may be removed/replaced from above without any handling of the baffle.

**END CAPS.** Steel, 14-gauge, with no holes or knockouts, finished to match housing.

**LAMPING.** Available in two- and three-lamp T8, T5 and T5HO cross-sections.


**BALLAST.** Electronic Ballast (**ELB10**), 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.

**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 online Pre-Wiring Information sheet in Service Center > Downloads at litecontrol.com for details.

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

**ROW JOINING.** Fixture end headers have threaded holes for easy row mounting without removing ballast cover.

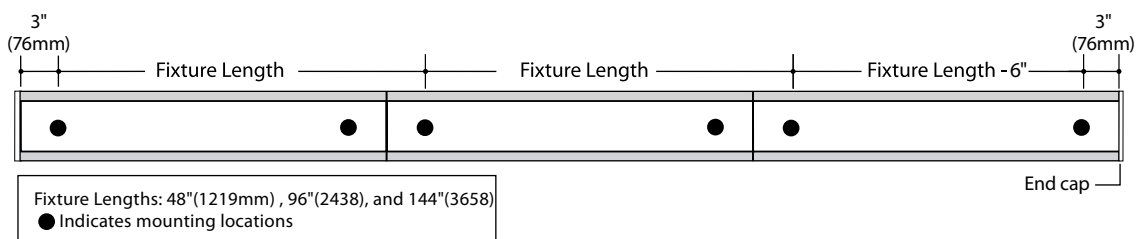
**SUSPENSION.** Aircraft cable or rigid stem pendants attach to fixture housing. Suspension points may be spaced according to fixture housing length, including up to 12 feet apart with 12' fixtures. **FAI/ACC** field adjustable 51" is standard. Suspensions can be installed from above without accessing inside the housing, except at feed locations. See online Aircraft Cables and Stems sheet in Service Center > Downloads at litecontrol.com 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.  This fixture is Cradle to Cradle Certified<sup>CM</sup> Silver by MBDC.

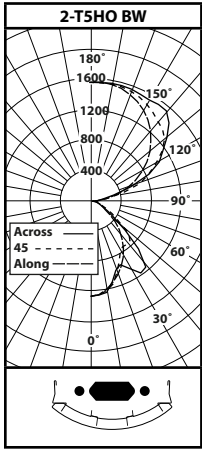
Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

**Planning for installation**

**Row diagram**



Photometric data T5HO lamps



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	1553	1553	1553	1553	1553
175	1562	1551	1549	1553	1554
165	1526	1528	1549	1567	1564
155	1437	1458	1502	1537	1539
145	1298	1344	1416	1506	1545
135	1112	1182	1325	1443	1446
125	898	991	1135	1140	1150
115	642	784	832	865	841
105	362	463	437	346	311
95	91	102	102	102	89
90	20	44	62	68	57
85	44	59	75	85	80
75	113	113	121	120	108
65	180	201	217	190	171
55	306	360	480	403	365
45	527	512	726	864	879
35	745	722	727	966	1140
25	939	953	875	868	913
15	1101	1108	1118	1097	1087
5	1223	1220	1223	1234	1229
0	1238	1238	1238	1238	1238

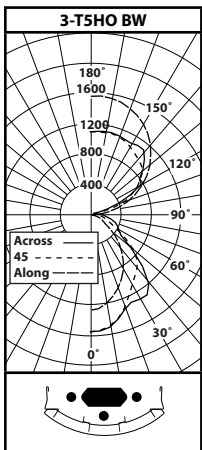
P-ID-7724T5HO-BW 90.5% Efficiency Input Watts = 123W																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	93	93	93	93	84	84	84	84	67	67	67	51	51	51	36	36	36	30
1	85	81	78	75	77	73	71	68	59	57	55	45	44	43	32	32	31	25
2	78	71	66	62	70	64	60	56	52	48	46	40	38	36	29	28	26	22
3	71	63	57	51	64	57	51	47	46	42	39	35	33	31	26	24	23	19
4	65	56	49	44	58	50	45	40	41	36	33	32	29	26	23	21	20	16
5	60	50	43	37	54	45	39	34	36	32	29	28	25	23	21	19	17	14
6	55	45	37	32	49	40	34	30	33	28	25	26	23	20	19	17	15	13
7	51	40	33	28	46	37	31	26	30	25	22	23	20	18	17	15	14	11
8	47	36	30	25	42	33	27	23	27	23	20	21	18	16	16	14	12	10
9	44	33	27	22	39	30	25	21	25	20	17	20	17	14	15	13	11	9
10	41	30	24	20	37	28	22	18	23	19	16	18	15	13	14	12	10	8

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	5476	61	67
90-0°	2668	30	33
180-0°	8144	91	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	3711	5112	6189
55°	2656	4166	3168
65°	2120	2556	2014
75°	2174	2328	2077
85°	2513	4284	4570

Litecontrol Test Report #65826300



CANDLEPOWER SUMMARY					
ANGLE	0	22.5	45	67.5	90
180	1682	1682	1682	1682	1682
175	1693	1691	1682	1684	1693
165	1661	1668	1706	1724	1716
155	1578	1612	1658	1682	1686
145	1436	1496	1556	1656	1711
135	1240	1313	1464	1594	1585
125	1018	1105	1277	1263	1242
115	742	876	949	968	936
105	435	550	515	421	364
95	136	153	133	130	106
90	24	65	92	104	71
85	68	98	134	211	253
75	220	229	276	384	456
65	387	418	468	544	626
55	692	762	895	803	777
45	1116	1128	1376	1502	1523
35	1528	1528	1597	1868	2043
25	1886	1902	1879	1942	2013
15	2186	2206	2228	2241	2238
5	2400	2385	2405	2425	2420
0	2428	2428	2428	2428	2428

P-ID-7734T5HO-BW 86.3% Efficiency Input Watts = 186W																		
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	92	92	92	92	85	85	85	85	71	71	71	58	58	58	46	46	46	41
1	84	80	77	74	77	74	71	68	62	60	58	51	50	48	41	40	39	34
2	77	70	65	61	70	65	60	56	55	51	48	45	43	41	36	35	33	29
3	70	62	56	51	64	57	52	47	48	44	41	40	37	35	32	30	29	25
4	64	55	48	43	59	51	45	40	43	39	35	36	33	30	29	27	25	22
5	59	49	42	37	54	46	39	35	39	34	30	32	29	26	26	24	22	19
6	54	44	37	32	50	41	35	30	35	30	27	29	26	23	24	21	19	17
7	50	40	33	28	46	37	31	27	32	27	24	27	23	20	22	19	17	15
8	47	36	30	25	43	34	28	24	29	24	21	25	21	18	20	18	16	14
9	44	33	27	23	40	31	25	21	27	22	19	23	19	16	19	16	14	12
10	41	30	24	20	38	28	23	19	25	20	17	21	17	15	17	15	13	11

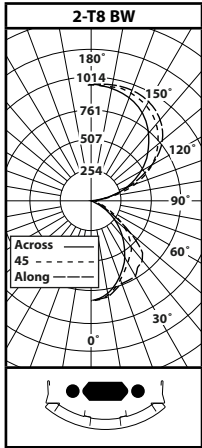
Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	6138	46	53
90-0°	5516	41	47
180-0°	11654	86	100

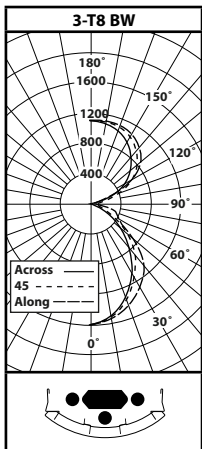
LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	7858	9688	10723
55°	6007	7769	6744
65°	4559	5513	7375
75°	4232	5309	8772
85°	3884	7655	14452

Litecontrol Test Report #65836300

Photometric data T8 lamps



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	
180	998	998	998	998	998	
175	1002	995	995	999	1002	
165	975	979	998	1012	1014	
155	917	935	969	1000	1003	
145	826	860	913	948	962	
135	707	759	820	856	872	
125	568	626	679	711	711	
115	406	464	513	488	466	
105	228	278	257	230	206	
95	53	64	63	63	52	
90	4	17	34	39	33	
85	17	31	44	54	51	
75	72	72	82	81	73	
65	126	140	158	138	127	
55	212	263	333	352	340	
45	366	385	472	559	626	
35	515	521	583	658	698	
25	647	660	663	708	750	
15	759	768	777	786	791	
5	837	839	839	846	843	
0	850	850	850	850	850	



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	
180	1094	1094	1094	1094	1094	
175	1101	1092	1094	1098	1100	
165	1075	1085	1103	1124	1126	
155	1016	1037	1080	1103	1102	
145	921	963	1008	1043	1055	
135	793	847	906	944	962	
125	646	699	753	791	794	
115	473	521	576	546	519	
105	276	323	297	264	235	
95	86	95	91	94	74	
90	20	51	70	79	59	
85	51	74	97	135	150	
75	152	160	196	286	360	
65	271	286	331	380	432	
55	461	509	583	595	619	
45	737	763	843	938	1004	
35	1003	1021	1069	1155	1218	
25	1239	1256	1278	1334	1376	
15	1438	1447	1470	1499	1508	
5	1576	1575	1581	1590	1579	
0	1592	1592	1592	1592	1592	

P-ID-7724T8-BW 91.5% Efficiency																		
Input Watts = 58W																		
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	95	95	95	95	86	86	86	86	69	69	69	54	54	54	39	39	39	33
1	87	83	80	76	78	75	72	70	61	59	57	47	46	45	35	34	34	28
2	79	73	67	63	71	66	62	58	53	50	48	42	40	38	31	30	29	24
3	72	64	58	53	65	58	53	48	47	43	40	37	35	32	28	26	25	21
4	66	57	50	45	60	52	46	41	42	38	34	33	30	27	24	23	22	18
5	61	51	44	38	55	46	40	35	38	33	30	30	27	24	23	21	19	16
6	56	45	38	33	51	42	35	31	34	29	26	27	24	21	21	18	17	14
7	52	41	34	29	47	38	31	27	31	26	23	25	21	19	19	17	15	12
8	48	37	30	26	43	34	28	24	28	24	20	23	19	17	17	15	13	11
9	45	34	27	23	40	31	25	21	26	21	18	21	17	15	16	14	12	10
10	42	31	25	20	38	29	23	19	24	19	16	19	16	14	15	13	11	9

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3408	59	64
90-0°	1897	33	36
180-0°	5304	92	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	2577	3323	4408
55°	1840	2890	2951
65°	1484	1861	1496
75°	1385	1577	1404
85°	971	2513	2913

Litecontrol Test Report #62024390

P-ID-7734T8-BW 86.4% Efficiency																		
Input Watts = 91W																		
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	92	92	92	92	85	85	85	72	72	72	59	59	59	48	48	48	42	
1	84	80	77	74	77	74	71	69	63	61	59	52	50	49	42	41	40	36
2	77	70	65	61	71	65	61	57	55	52	49	46	43	41	37	36	34	30
3	70	62	56	51	64	57	52	48	49	45	41	41	38	35	33	31	29	26
4	64	55	48	43	59	51	45	41	43	39	35	36	33	30	30	27	25	22
5	59	49	42	37	54	46	40	35	39	34	31	33	29	26	27	24	22	19
6	55	44	37	32	50	41	35	31	35	30	27	30	26	23	25	22	20	17
7	51	40	33	28	46	37	31	27	32	27	24	27	23	21	23	20	18	15
8	47	36	30	25	43	34	28	24	29	25	21	25	21	18	21	18	16	14
9	44	33	27	23	40	31	25	21	27	22	19	23	19	17	19	16	14	13
10	41	31	24	20	38	29	23	19	25	20	17	21	18	15	18	15	13	11

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3826	44	51
90-0°	3691	42	49
180-0°	7517	86	100

LUMINANCE SUMMARY (cd/m²)			
ANGLE	0°	45°	90°
45°	5189	5935	7069
55°	4001	5060	5373
65°	3192	3899	5089
75°	2924	3770	6925
85°	2913	5541	8568

Litecontrol Test Report #65631300