

Mod™ P-D-66N, S-D-66N Pendant-Mounted Direct Surface-Mounted Direct

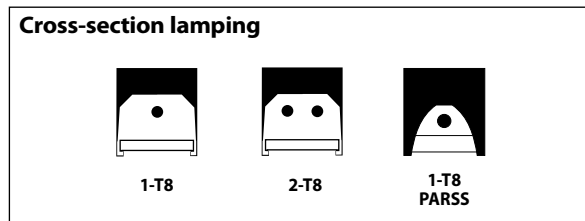
Product Description

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

Ordering Guide

Product, Lamping, & Length					Options							
	D -	66N			T8 -							
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Baffle and Diffuser	Finish	Ballast	Tandem Wiring	Other options	Volts	
P Pendant-Mounted	D Direct	66N	1, 2 →	2	T8	BW FP PARSS (1-lamp) PAT.19 PBSS XA	CWM (Matte White) is standard	ELB10 is standard DA/MK7 DL/ECO DO/HEL	-- TW	EF F see Other options	120 277	
S Surface-Mounted			1, 2 →	3		see Baffle and Diffuser Options	see website for other Product Finishes	see Ballast Options				
			1, 2 →	4								
			2, 4 →	6								
			2, 4 →	8								
Mounting Options - add to end of order number Aircraft Cables <input type="checkbox"/> FAI/ACC (field adjustable) <i>standard</i> Stems <input type="checkbox"/> P6S (stem) <input type="checkbox"/> SC/P6 (sloped ceiling) <input type="checkbox"/> EQ/P6 (earthquake)			see notes									
notes: Lamp Count = total number of lamps in the fixture Tandem wiring not available for one lamp cross-sections. For Ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.												

P-D-66N24T8-PBSS-CWM-TW-ELB10-F-120-FAI/ACC is a typical catalog number for a 2-lamp (2 lamps in cross-section), 4-foot long T8 fixture with parabolic semi-specular baffle, matte white finish, tandem-wired electronic ballast, fuse, 120 volts, mounted with field adjustable aircraft cables.



Baffle & Diffuser Options

- BW** Blade White baffles with matte white finish.
- FP** Flat plastic white acrylic lens, regressed.
- PARSS** Parabolic semi-specular reflector baffle. For P-D-66N or S-D-66N one-lamp cross-section fixtures only.
- PAT.19** Thick extruded acrylic lens with square prisms, regressed.
- PBSS** Parabolic semi-specular baffle. 1.4" high x 2" OC.
- XA** Extruded acrylic lens, with conical prisms, regressed.

Ballast Options

Specify in place of **ELB10**, contact factory for availability/compatibility with lamping:

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

Other Options

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

Questions to Ask

1. Row information, including desired fixture lengths?
2. Baffle or diffuser type? 3. White finish or other?
4. Ballast options? 5. Other options? 6. 120 or 277 volt?



Specifications

HOUSING. Die-formed and welded steel, with 3/8" regression at housing bottom for rigidity and appearance, furnished with 6" long, 20-gauge steel splines for precise alignment at each joint. 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. Four fasteners on each end cap allow tight attachment to ends of individual fixtures and ends of rows.

REFLECTORS. Standard: Die-formed steel with high-reflectance white finish. Parabolic Reflector/Baffle (**PARSS**): Die-formed semispecular anodized aluminum reflector and baffle assembly. Available only on P-D-66N and S-D-66N in 1-lamp cross-section.

LAMPING. Available in one- and two-lamp T8. Easy baffle removal to access/replace lamps without tools.

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.

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

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

SYSTEM CONNECTORS. Corners, tees, crosses, and straight extensions available. Die-formed 20-gauge 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.

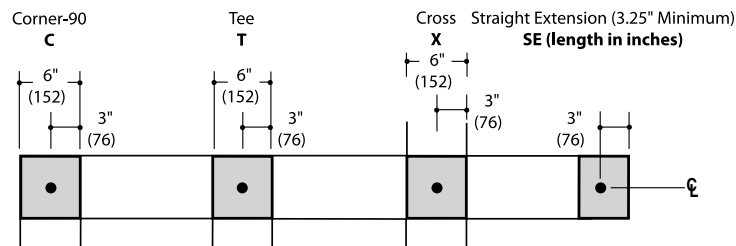
MOUNTING. This direct-only fixture may be either surface-mounted or pendant-mounted using Litecontrol's standard suspension system.

CERTIFICATION. Fixture and electrical components are UL and/or CUL Listed (UL LISTED), and bear the I.B.E.W., A.F. of L. label. This fixture is Cradle to Cradle Certified^{CM} 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-66N00	C	
P-D-66N00	T	
P-D-66N00	X	
P-D-66N00	SE (length)	



P-D-66N00-C-CWM is a typical catalog number for a 90° corner connector finished matte white.

P-D-66N00-SE 9.375"-CWM is a typical catalog number for a straight extension 9 3/8" long, 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.

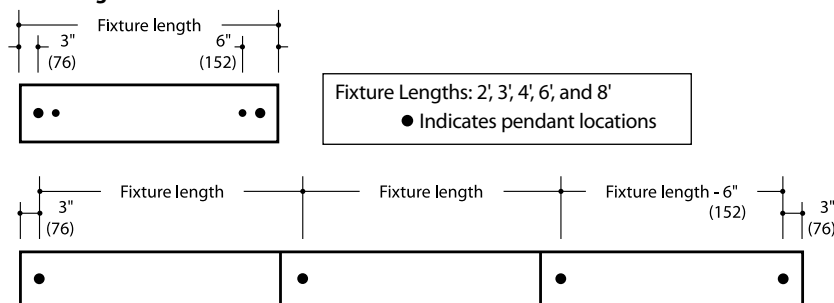
Stem Lengths

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 at 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.

Row Diagram

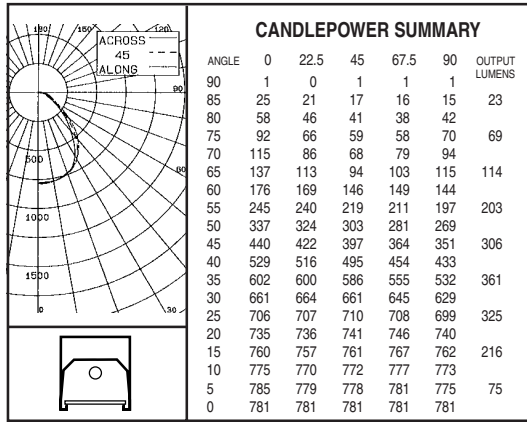


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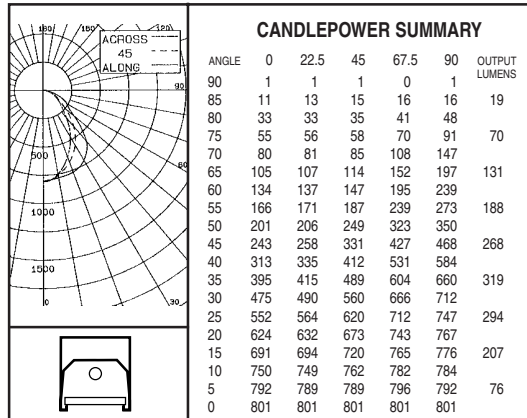
Photometric data 1-T8



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

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	1687	58.20	100
180-0°	1687	58.20	100

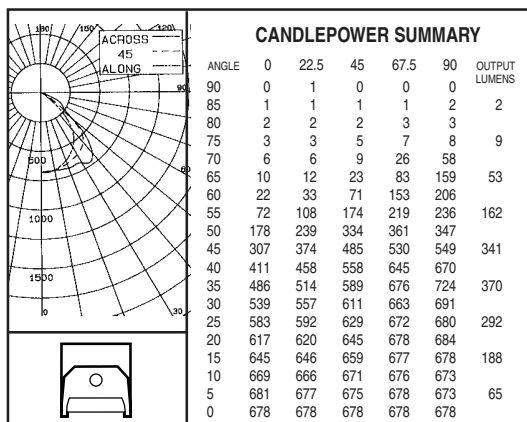
ANGLE	0°	45°	90°
45°	1172	1064	939
55°	804	724	649
65°	611	419	515
75°	671	428	509
85°	543	379	335



RCC RW	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	.64	.64	.64	.64	.63	.63	.63	.63	.60	.60	.60	.57	.57	.57	.55	.55	.55	.54	.54	.54	
1	.60	.58	.56	.54	.59	.57	.55	.53	.54	.53	.52	.52	.51	.50	.50	.49	.49	.48	.47	.46	
2	.55	.52	.49	.46	.54	.51	.48	.46	.49	.47	.45	.47	.45	.44	.46	.44	.43	.42	.42	.42	
3	.51	.47	.43	.40	.50	.46	.42	.40	.44	.41	.39	.43	.40	.38	.42	.40	.38	.37	.37	.37	
4	.48	.42	.38	.35	.47	.41	.38	.35	.40	.37	.34	.39	.36	.34	.38	.35	.33	.32	.32	.32	
5	.44	.38	.34	.30	.43	.37	.33	.30	.36	.33	.30	.35	.32	.30	.34	.32	.29	.28	.28	.28	
6	.41	.34	.30	.27	.40	.34	.30	.27	.33	.29	.27	.32	.29	.26	.31	.28	.26	.25	.25	.25	
7	.38	.31	.27	.24	.37	.31	.27	.24	.30	.26	.24	.29	.26	.23	.29	.26	.23	.22	.22	.22	
8	.35	.28	.24	.21	.34	.28	.24	.21	.27	.24	.21	.27	.23	.21	.26	.23	.21	.20	.20	.20	
9	.33	.26	.22	.19	.32	.25	.21	.19	.25	.21	.19	.24	.21	.18	.24	.21	.18	.17	.17	.17	
10	.30	.24	.19	.17	.30	.23	.19	.17	.23	.19	.17	.22	.19	.16	.22	.19	.16	.15	.15	.15	
Floor Cavity Reflectance .20																					

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	1566	54.01	100
180-0°	1566	54.01	100

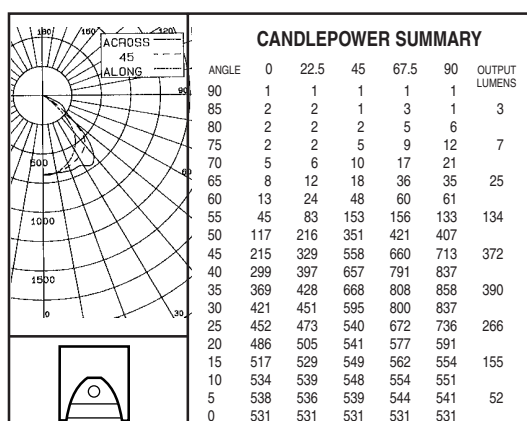
ANGLE	0°	45°	90°
45°	648	884	1253
55°	546	618	901
65°	470	509	884
75°	401	425	666
85°	246	324	347



RCC RW	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	.61	.61	.61	.61	.59	.59	.59	.59	.57	.57	.57	.54	.54	.54	.52	.52	.52	.51	.51	.51	
1	.57	.55	.54	.53	.56	.54	.53	.52	.52	.51	.50	.50	.49	.49	.49	.48	.47	.46	.46	.46	
2	.53	.51	.48	.46	.52	.50	.47	.45	.48	.46	.44	.46	.45	.43	.45	.44	.42	.42	.42	.42	
3	.50	.46	.43	.40	.49	.45	.42	.40	.44	.41	.39	.42	.40	.39	.41	.40	.38	.37	.37	.37	
4	.46	.42	.38	.35	.45	.41	.38	.35	.40	.37	.35	.39	.36	.34	.38	.36	.34	.33	.33	.33	
5	.43	.38	.34	.31	.42	.37	.34	.31	.36	.33	.31	.35	.32	.30	.34	.32	.30	.29	.29	.29	
6	.40	.34	.30	.28	.39	.34	.30	.27	.33	.30	.27	.32	.29	.27	.31	.29	.27	.26	.26	.26	
7	.37	.31	.27	.24	.36	.31	.27	.24	.30	.26	.24	.29	.26	.24	.29	.26	.24	.23	.23	.23	
8	.34	.28	.24	.21	.33	.27	.24	.21	.27	.23	.21	.26	.23	.21	.26	.23	.21	.20	.20	.20	
9	.31	.25	.21	.18	.31	.25	.21	.18	.24	.21	.18	.24	.21	.18	.23	.20	.18	.17	.17	.17	
10	.29	.23	.19	.16	.28	.22	.19	.16	.22	.19	.16	.22	.18	.16	.21	.18	.16	.15	.15	.15	
Floor Cavity Reflectance .20																					

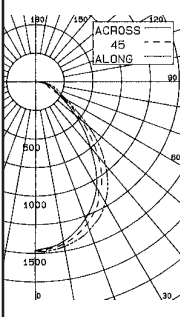

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	1477	50.94	100
180-0°	1477	50.94	100

ANGLE	0°	45°	90°
45°	819	1299	1470
55°	238	573	779
65°	46	102	712
75°	21	33	60
85°	16	18	34



Photometric data 2-T8

CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	1	1	2	1	1	
85	45	39	31	26	26	40
80	101	80	71	67	74	
75	162	117	103	104	125	121
70	200	152	117	139	162	
65	238	198	160	177	200	197
60	301	298	248	254	246	
55	426	422	376	354	333	350
50	596	573	519	474	451	
45	783	743	680	618	595	529
40	952	910	848	774	742	
35	1100	1064	1004	945	910	626
30	1218	1188	1103	1093	1066	
25	1314	1284	1235	1205	1182	572
20	1378	1356	1320	1294	1273	
15	1429	1413	1389	1370	1353	393
10	1460	1448	1437	1430	1416	
5	1480	1471	1462	1464	1452	140
0	1475	1475	1475	1475	1475	

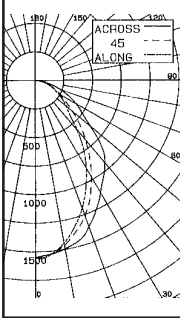

S-D-66N24T8-XA 51.1% Efficiency Litecontrol Certified Test Report #12121010																		
RCC RW	80				70				50		30		10		0			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR 0	.61	.61	.61	.61	.59	.59	.59	.59	.57	.57	.57	.54	.54	.54	.52	.52	.52	.51
1	.57	.55	.53	.51	.55	.54	.52	.51	.51	.50	.49	.50	.49	.48	.48	.47	.46	.45
2	.53	.49	.46	.44	.51	.48	.46	.44	.46	.44	.43	.45	.43	.42	.44	.42	.41	.40
3	.49	.44	.41	.38	.48	.44	.40	.38	.42	.40	.37	.41	.39	.37	.40	.38	.36	.35
4	.45	.40	.36	.34	.44	.40	.36	.33	.38	.35	.33	.37	.35	.32	.36	.34	.32	.31
5	.42	.36	.32	.29	.41	.36	.32	.29	.35	.31	.29	.34	.31	.29	.33	.30	.28	.27
6	.39	.33	.29	.26	.38	.32	.29	.26	.32	.28	.26	.31	.28	.25	.30	.27	.25	.24
7	.36	.30	.26	.23	.35	.30	.26	.23	.29	.25	.23	.28	.25	.23	.27	.25	.23	.22
8	.34	.27	.23	.20	.33	.27	.23	.20	.26	.23	.20	.26	.22	.20	.25	.22	.20	.19
9	.31	.25	.21	.18	.30	.24	.21	.18	.24	.20	.18	.23	.20	.18	.23	.20	.18	.17
10	.29	.22	.19	.16	.28	.22	.19	.16	.22	.18	.16	.21	.18	.16	.21	.18	.16	.15

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	2964	51.11	100
180-0°	2964	51.11	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	2087	1820	1592
55°	1401	1239	1100
65°	1062	714	897
75°	1182	749	911
85°	965	674	569

CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	1	1	1	0	1	
85	19	23	27	26	25	31
80	56	58	60	68	80	
75	96	96	102	116	148	118
70	139	138	146	174	234	
65	182	185	195	242	321	219
60	232	236	251	325	412	
55	290	294	322	418	494	326
50	351	354	421	554	628	
45	424	447	545	716	816	452
40	563	595	678	831	945	
35	727	755	825	943	1037	536
30	887	906	978	1076	1136	
25	1042	1059	1132	1209	1252	525
20	1191	1200	1260	1340	1364	
15	1326	1332	1368	1432	1453	390
10	1445	1445	1462	1494	1494	
5	1531	1524	1526	1535	1527	145
0	1551	1551	1551	1551	1551	

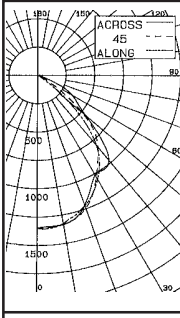

S-D-66N24T8-BW 47.2% Efficiency Litecontrol Certified Test Report #12121300																		
RCC RW	80				70				50		30		10		0			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR 0	.56	.56	.56	.56	.55	.55	.55	.55	.52	.52	.52	.50	.50	.50	.48	.48	.48	.47
1	.52	.51	.49	.48	.51	.50	.48	.47	.48	.46	.45	.46	.45	.44	.44	.43	.43	.42
2	.49	.45	.43	.41	.48	.45	.42	.40	.43	.41	.39	.42	.40	.38	.40	.39	.38	.37
3	.45	.41	.38	.35	.44	.40	.37	.35	.39	.36	.34	.38	.36	.34	.37	.35	.33	.32
4	.42	.37	.34	.31	.41	.36	.33	.31	.35	.33	.30	.34	.32	.30	.33	.31	.30	.29
5	.39	.33	.30	.27	.38	.33	.29	.27	.32	.29	.27	.31	.28	.26	.30	.28	.26	.25
6	.36	.30	.27	.24	.35	.30	.26	.24	.29	.26	.24	.28	.26	.24	.28	.25	.23	.23
7	.33	.28	.24	.22	.33	.27	.24	.21	.27	.23	.21	.26	.23	.21	.25	.23	.21	.20
8	.31	.25	.22	.19	.30	.25	.21	.19	.24	.21	.19	.24	.21	.19	.23	.21	.19	.18
9	.29	.23	.19	.17	.28	.23	.19	.17	.22	.19	.17	.22	.19	.17	.21	.18	.16	.16
10	.27	.21	.17	.15	.26	.21	.17	.15	.20	.17	.15	.20	.17	.15	.19	.17	.15	.14

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	2738	47.22	100
180-0°	2738	47.22	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1131	1458	2182
55°	953	1061	1629
65°	813	871	1436
75°	698	744	1085
85°	415	577	543

CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	1	1	1	2	2	
85	2	2	2	1	3	3
80	2	4	4	5	6	
75	7	4	8	10	13	13
70	10	10	14	37	90	
65	17	20	36	130	247	85
60	37	49	120	258	348	
55	126	166	291	378	429	266
50	333	381	513	546	552	
45	592	630	708	777	789	530
40	803	816	823	919	974	
35	947	957	922	961	1013	599
30	1056	1072	1037	1016	1012	
25	1149	1159	1153	1126	1103	527
20	1222	1227	1246	1237	1217	
15	1279	1283	1304	1315	1303	366
10	1326	1324	1334	1341	1333	
5	1352	1345	1343	1347	1338	129
0	1347	1347	1347	1347	1347	

S-D-66N24T8-PBSS 43.4% Efficiency Litecontrol Certified Test Report #12121340																		
RCC RW	80				70				50		30		10		0			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
RCR 0	.52	.52	.52	.52	.50	.50	.50	.50	.48	.48	.48	.46	.46	.46	.44	.44	.44	.43
1	.49	.47	.46	.45	.48	.46	.45	.44	.45	.44	.43	.43	.42	.41	.41	.41	.40	.39
2	.46	.43	.41	.39	.45	.42	.40	.39	.41	.39	.38	.40	.38	.37	.38	.37	.36	.36
3	.43	.39	.37	.35	.42	.39	.36	.34	.38	.35	.34	.36	.35	.33	.35	.34	.33	.32
4	.40	.36	.33	.31	.39	.35	.33	.30	.34	.32	.30	.33	.31	.30	.32	.31	.29	.29
5	.37	.33	.29	.27	.36	.32	.29	.27	.31	.29	.27	.30	.28	.26	.30	.28	.26	.25
6	.34	.30	.26	.24	.34	.29	.26	.24	.29	.26	.24	.28	.25	.24	.27	.25	.23	.23
7	.32	.27	.24	.22	.31	.27	.24	.21	.26	.23	.21	.25	.23	.21	.25	.23	.21	.20
8	.30	.24	.21	.19	.29	.24	.21	.19	.24	.21	.19	.23	.21	.19	.23	.20	.19	.18
9	.27	.22	.19	.17	.27	.22	.19	.17	.21	.18	.17	.21	.18	.16	.20	.18	.16	.16
10	.25	.20	.17	.15	.25	.20	.17	.15	.19	.17	.15	.19	.16	.15	.19	.16	.15	.14

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	0	0
90-0°	2514	43.35	100
180-0°	2514	43.35	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1579	1894	2110
55°	414	960	1415
65°	74	161	1107
75°	48	61	93
85°	39	34	67