

Mod™
P-S/D-4400
Pendant-mounted Semi-direct

Product Description

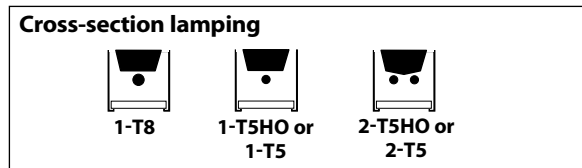
Linear modular semi-direct luminaire which offers a variety of shielding options. UL Listed. This fixture is Cradle to Cradle Silver Certified™ by MBDC.

CS™ Control Solutions available

Ordering Guide

Product, lamping, & length						Options						
P -	S/D -	44	4	6	T5HO -	PBSS -	TCWM -	LP/ELB -	TW -	2CWQ -	F -	120
Mounting	Distribution	Series	Lamp count	Nominal length (ft)	Lamp type	Baffle or Diffuser	Finish	Ballast	Tandem wiring	Circuiting	Other options	Volts
P Pendant-mounted see notes	S/D Semi-direct	44	1 → 2	2 → 3	T8	BW PBSS SGL see Baffle & Diffuser Options	TCWM (textured matte white) is standard see LiteColors™ for other finishes	ELB10 is std. for T8 LP/ELB is std. for T5 or T5HO DA/MK7 DA/MK10 DL/ECO DO/HEL LPD/CS/e see Ballast Options	-- →	1CWQ	F LP/EF see Other Options	120 277
			1 → 3	3 → 4					TW →	2CWQ		
			1 → 4	4 → 6					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.			
			2 → 6	6 → 8								
			2 → 8	T5HO T5								
			1, 2 → 2							2 → 3		
			1, 2 → 3	3 → 4								
			1, 2 → 4	4 → 6								
			2, 4 → 6	6 → 8								
			2, 4 → 8	see notes								

P-S/D-4446T5HO-PBSS-TCWM-LP/ELB-TW-2CWQ-F-120-FAI/ACC is a typical catalog number for a 4-lamp (2 lamps in cross-section), 6-foot long, high-output T5 fixture with semi-specular parabolic 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.



Baffle & Diffuser Options

- BW** Blade Baffles. White, 3/4" high x 3/4" OC, steel, regressed.
- PBSS** Semi-Specular Aluminum Parabolic Baffle, 1 13/32" high x 2" OC, anodized aluminum.
- SGL** Soft Glow Lens. Extruded, frosted acrylic, flush to bottom of fixture housing.

Ballast Options **CS_e**

- 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

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 or contact the factory.

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 inline 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

- Row information, including desired fixture lengths?
- Lamp type?
- Diffuser type? 4. White, *LiteColor*, or special color? 5. Ballast options?
- Control solutions? 7. Tandem wiring? 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, steel splines for insertion at each side of housing at junction of fixtures in rows for precise alignment. Obround slots, 1/2" wide, along top surface of the housing provide approximately 4% uplight for ceiling illumination. Acrylic diffusing lens, .040" thick is located under slots for softening uplight component. 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.

REFLECTOR. Die-formed steel with high-reflectance white finish.

LAMPING. Available in one-lamp T8 or one- and two-lamp T5 or T5HO in cross-section. Easy baffle removal to access/replace lamps without tools.

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 (two-lamp cross-section fixtures only) 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. 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.

SUSPENSION. Fixture may be pendant-mounted using Litecontrol's standard suspension system.

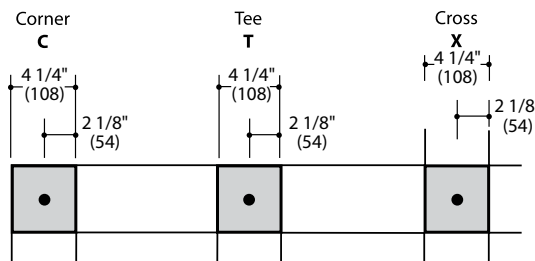
CERTIFICATION. Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label.  This fixture is Cradle to Cradle Certified™ Silver by MBDC. Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

System Connectors

Catalog Number

Series	Connector	Finish
P-S/D-4400	C	
P-S/D-4400	T	
P-S/D-4400	X	

P-S/D-4400-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.

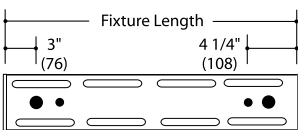
Stem Lengths

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

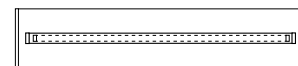


Fixture Lengths: 24", 36", 48", 72", and 96"
 ● 7/8" diameter knockout, cable or stem
 ● 5/8" diameter knockout, electrical feed

Lamp Position

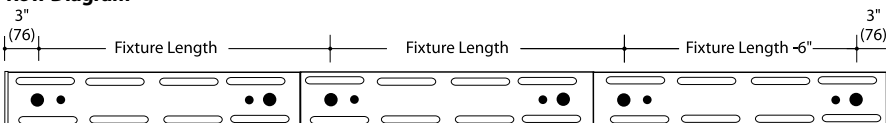


Lamp position for two-lamp T5, T5HO cross-section only.



Lamp position for one-lamp T8, T5, T5HO cross-sections.

Row Diagram

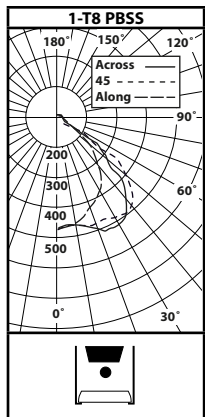


LITECONTROL

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



Photometric data T8



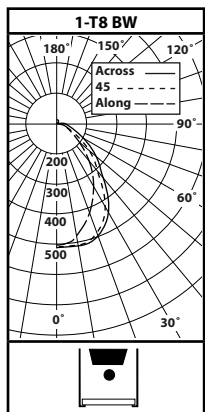
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	24	24	24	24	24	
170	28	24	25	27	25	10
160	20	20	24	26	28	
150	22	20	21	23	25	25
140	19	20	19	21	20	
130	13	13	12	12	11	23
120	5	8	6	4	4	
110	4	4	3	3	3	9
100	4	3	4	3	4	
90	3	3	3	4	4	9
80	4	4	3	2	3	
70	3	3	2	4	4	25
60	20	27	46	81	117	
50	154	193	223	222	226	338
40	284	325	373	388	398	
30	358	381	436	474	490	455
20	404	413	446	486	498	
10	446	441	451	458	454	171
0	452	452	452	452	452	

P-S/D-4414T8-PBSS 37% Efficiency Litecontrol Certified Test Report #59711340																					
RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR																					
0	.44	.44	.44	.44	.42	.42	.42	.42	.40	.40	.40	.38	.38	.38	.36	.36	.36	.36	.35		
1	.41	.40	.39	.38	.40	.39	.38	.37	.37	.36	.35	.35	.34	.34	.33	.33	.32	.32			
2	.38	.36	.34	.33	.37	.35	.34	.32	.34	.32	.31	.32	.31	.30	.31	.30	.29	.28			
3	.36	.33	.31	.29	.35	.32	.30	.28	.31	.29	.28	.30	.28	.27	.28	.27	.26	.26			
4	.33	.30	.27	.25	.32	.29	.27	.25	.28	.26	.25	.27	.25	.24	.26	.25	.23	.23			
5	.31	.27	.24	.22	.30	.27	.24	.22	.26	.23	.22	.25	.23	.21	.24	.22	.21	.20			
6	.29	.25	.22	.20	.28	.24	.22	.20	.23	.21	.19	.22	.20	.19	.22	.20	.19	.18			
7	.27	.22	.19	.18	.26	.22	.19	.17	.21	.19	.17	.20	.18	.17	.20	.18	.17	.16			
8	.24	.20	.17	.15	.24	.20	.17	.15	.19	.17	.15	.18	.16	.15	.18	.16	.15	.14			
9	.23	.18	.15	.13	.22	.18	.15	.13	.17	.14	.13	.17	.14	.13	.16	.14	.13	.12			
10	.21	.16	.14	.12	.20	.16	.14	.12	.16	.13	.12	.15	.13	.11	.15	.13	.11	.11			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	66	2.35	6.34
90-0°	988	34.69	93.66
180-0°	1055	37.04	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	930	1284	1313
55°	389	580	864
65°	21	84	196
75°	35	23	47
85°	104	138	139



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	24	24	24	24	24	
170	28	24	25	27	25	10
160	20	20	24	26	28	
150	22	20	21	23	25	25
140	19	20	19	21	20	
130	13	13	12	12	11	23
120	5	8	6	4	4	
110	4	4	3	3	3	9
100	4	3	4	3	4	
90	3	4	4	4	3	15
80	21	21	21	24	27	
70	62	60	60	70	81	137
60	101	101	106	134	162	
50	147	153	171	190	212	300
40	221	235	271	300	316	
30	325	336	382	421	443	401
20	415	424	453	498	514	
10	495	498	505	523	523	188
0	531	531	531	531	531	

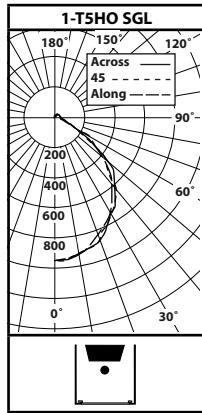
P-S/D-4414T8-BW 38.6 % Efficiency Litecontrol Certified Test Report #59711300																					
RCC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0
RCR																					
0	.45	.45	.45	.45	.44	.44	.44	.44	.42	.42	.42	.39	.39	.39	.37	.37	.37	.36			
1	.42	.41	.39	.38	.41	.40	.39	.37	.38	.37	.36	.36	.35	.34	.34	.33	.33	.32			
2	.39	.37	.34	.32	.38	.36	.34	.32	.34	.32	.31	.32	.31	.30	.31	.30	.29	.28			
3	.36	.33	.30	.28	.35	.32	.30	.28	.31	.29	.27	.29	.28	.26	.28	.27	.25	.25			
4	.33	.30	.27	.24	.33	.29	.26	.24	.28	.25	.24	.27	.25	.23	.26	.24	.23	.22			
5	.31	.27	.23	.21	.30	.26	.23	.21	.25	.22	.21	.24	.22	.20	.23	.21	.20	.19			
6	.29	.24	.21	.19	.28	.24	.21	.19	.23	.20	.18	.22	.20	.18	.21	.19	.18	.17			
7	.27	.22	.19	.17	.26	.22	.19	.17	.21	.18	.16	.20	.18	.16	.19	.17	.16	.15			
8	.25	.20	.17	.15	.24	.19	.17	.15	.19	.16	.14	.18	.16	.14	.18	.16	.14	.13			
9	.23	.18	.15	.13	.22	.18	.15	.13	.17	.15	.13	.17	.14	.13	.16	.14	.12	.12			
10	.21	.16	.14	.12	.21	.16	.13	.12	.16	.13	.11	.15	.13	.11	.15	.13	.11	.10			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	67	2.35	6.10
90-0°	1032	36.22	93.90
180-0°	1099	38.57	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	714	884	1046
55°	635	684	966
65°	528	558	864
75°	454	455	581
85°	104	138	139

Photometric data T5HO



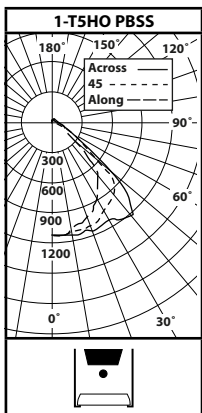
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	30	30	30	30	30	
170	30	30	30	30	30	12
160	30	30	30	30	26	25
150	23	22	17	17	22	24
140	17	22	17	18	13	
130	13	13	13	12	10	22
120	5	8	8	5	9	
110	4	5	4	3	4	11
100	4	4	4	4	4	
90	3	3	4	3	2	30
80	40	43	43	47	42	
70	96	100	99	99	99	214
60	187	198	204	200	196	
50	407	373	364	361	374	617
40	574	565	546	552	543	
30	698	698	689	681	668	737
20	804	795	792	790	778	
10	868	860	855	860	848	318
0	880	880	880	880	880	

P-S/D-4414T5HO-SGL 43.9% Efficiency Litecontrol Certified Test Report #59816590																					
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	.52	.52	.52	.52	.51	.51	.51	.51	.48	.48	.48	.46	.46	.46	.43	.43	.43	.42			
1	.48	.47	.45	.44	.47	.46	.44	.43	.43	.42	.41	.41	.41	.40	.40	.39	.38	.37			
2	.45	.42	.39	.37	.44	.41	.39	.37	.39	.37	.36	.37	.36	.35	.36	.35	.34	.33			
3	.41	.37	.35	.32	.40	.37	.34	.32	.35	.33	.31	.34	.32	.30	.33	.31	.30	.29			
4	.38	.34	.31	.28	.37	.33	.30	.28	.32	.29	.27	.31	.29	.27	.30	.28	.26	.25			
5	.35	.30	.27	.24	.34	.30	.26	.24	.29	.26	.24	.28	.25	.23	.27	.25	.23	.22			
6	.33	.27	.24	.21	.32	.27	.24	.21	.26	.23	.21	.25	.23	.21	.24	.22	.20	.20			
7	.30	.25	.21	.19	.30	.24	.21	.19	.24	.21	.19	.23	.20	.18	.22	.20	.18	.17			
8	.28	.22	.19	.17	.27	.22	.19	.16	.21	.18	.16	.21	.18	.16	.20	.18	.16	.15			
9	.26	.20	.17	.14	.25	.20	.17	.14	.19	.16	.14	.19	.16	.14	.18	.16	.14	.13			
10	.24	.18	.15	.13	.23	.18	.15	.13	.18	.15	.13	.17	.14	.12	.17	.14	.14	.12			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	70	1.56	3.55
90-0°	1906	42.37	96.45
180-0°	1976	43.93	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	2067	1882	1945
55°	1472	1433	1439
65°	865	927	898
75°	718	767	832
85°	577	727	728



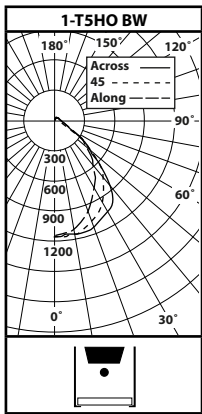
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	30	30	30	30	30	
170	30	30	30	30	30	12
160	30	30	30	26	25	
150	23	22	17	17	22	24
140	17	22	17	18	13	
130	13	13	13	12	10	22
120	5	8	8	5	9	
110	4	5	4	3	4	11
100	4	4	4	4	4	
90	3	3	4	3	2	10
80	3	3	4	3	3	
70	4	9	9	11	13	49
60	36	71	87	148	196	
50	316	404	541	561	615	795
40	609	691	838	1038	1131	
30	777	820	894	964	1020	982
20	891	898	948	995	1005	
10	960	957	973	985	986	367
0	977	977	977	977	977	

P-S/D-4414T5HO-PBSS 50.3% Efficiency Litecontrol Certified Test Report #59816340																					
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	.59	.59	.59	.59	.58	.58	.58	.58	.55	.55	.55	.52	.52	.52	.50	.50	.50	.49			
1	.56	.54	.53	.51	.55	.53	.52	.50	.51	.50	.49	.49	.48	.47	.47	.46	.45	.44			
2	.52	.50	.47	.45	.51	.48	.46	.44	.47	.45	.43	.45	.43	.42	.43	.42	.41	.40			
3	.49	.45	.42	.40	.48	.44	.41	.39	.43	.40	.38	.41	.39	.37	.40	.38	.37	.36			
4	.46	.41	.37	.35	.44	.40	.37	.34	.39	.36	.34	.38	.35	.33	.36	.34	.33	.32			
5	.42	.37	.33	.31	.41	.36	.33	.30	.35	.32	.30	.34	.31	.29	.33	.31	.29	.28			
6	.39	.34	.30	.27	.38	.33	.29	.27	.32	.29	.27	.31	.28	.26	.30	.28	.26	.25			
7	.36	.30	.26	.24	.35	.30	.26	.24	.29	.26	.23	.28	.25	.23	.27	.25	.23	.22			
8	.33	.27	.23	.21	.32	.27	.23	.21	.26	.23	.20	.25	.22	.20	.25	.22	.20	.19			
9	.31	.24	.21	.18	.30	.24	.20	.18	.23	.20	.18	.23	.20	.17	.22	.19	.17	.16			
10	.28	.22	.18	.16	.28	.22	.18	.16	.21	.18	.16	.21	.18	.15	.20	.17	.15	.14			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	70	1.56	3.11
90-0°	2192	48.72	96.89
180-0°	2262	50.29	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1996	3107	3930
55°	703	1323	1880
65°	75	172	359
75°	50	37	50
85°	148	148	149



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	30	30	30	30	30	
170	30	30	30	30	30	12
160	30	30	30	26	25	
150	23	22	17	17	22	24
140	17	22	17	18	13	
130	13	13	13	12	10	22
120	5	8	8	5	9	
110	4	5	4	3	4	11
100	4	4	4	4	4	
90	3	3	4	3	3	20
80	30	30	30	30	26	
70	74	73	74	78	91	171
60	148	154	160	192	226	
50	326	305	334	373	423	608
40	498	530	611	738	799	
30	716	747	834	929	1008	897
20	917	925	991	1073	1112	
10	1077	1077	1098	1129	1134	408
0	1150	1150	1150	1150	1150	

P-S/D-4414T5HO-BW 48.1% Efficiency Litecontrol Certified Test Report #59816300																					
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	.57	.57	.57	.57	.55	.55	.55	.55	.53	.53	.53	.50	.50	.50	.48	.48	.48	.47			
1	.53	.52	.50	.49	.52	.50	.49	.48	.48	.47	.46	.46	.45	.44	.44	.43	.43	.42			
2	.50	.47	.44	.42	.48	.46	.43	.41	.44	.42	.40	.42	.41	.39	.41	.39	.38	.37			
3	.46	.42	.39	.37	.45	.41	.39	.36	.40	.38	.36	.38	.37	.35	.37	.36	.34	.33			
4	.43	.38	.35	.32	.42	.38	.35	.32	.36	.34	.32	.35	.33	.31	.34	.32	.30	.29			
5	.40	.35	.31	.28	.39	.34	.31	.28	.33	.30	.28	.32	.29	.27	.31	.29	.27	.26			
6	.37	.32	.28	.25	.36	.31	.28	.25	.30	.27	.25	.29	.27	.25	.28	.26	.24	.23			
7	.34	.29	.25	.23	.34	.28	.25	.22	.28	.24	.22	.27	.24	.22	.26	.24	.22	.21			
8	.32	.26	.23	.20	.31	.26	.22	.20	.25	.22	.20	.24	.22	.19	.24	.21	.19	.18			
9	.30	.24	.20	.18	.29	.23	.20	.18	.23	.20	.17	.22	.19	.17	.22	.19	.17	.16			
10	.28	.22	.18	.16	.27	.21	.18	.16	.21	.18	.16	.20	.17	.15	.20	.17	.15	.14			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	70	1.56	3.24
90-0°	2094	46.55	96.76
180-0°	2164	48.11	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1661	1950	2490
55°	1170	1196	1648
65°	656	681	928
75°	584	573	624
85°	470	293	145