

**Mod™**  
**W-D-4400**  
Wall-Mounted Direct

### Product Description

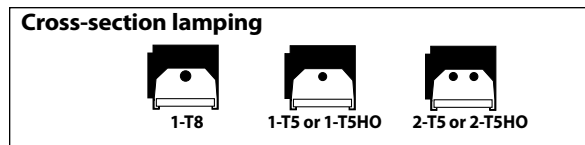
Linear modular direct luminaire which offers a variety of shielding options. UL Listed. This fixture is Cradle to Cradle Silver Certified™ by MBDC.

## Ordering Guide

Product, lamping, & length					
W -	D -	44	4	6	T5HO -
Mounting	Distribution	Series	Lamp Count	Nominal Length (ft)	Lamp Type
W Wall-Mounted	D Direct	44	1 →	2 →	T8
			1 →	3 →	
			1 →	4 →	
			2 →	6 →	
			2 →	8 →	T5HO T5
			1, 2 →	2 →	
			1, 2 →	3 →	
			1, 2 →	4 →	
			2, 4 →	6 →	
			2, 4 →	8 →	
			see notes		

Options						
PBSS -	TCWM -	LP/ELB -	TW -	2CWQ -	F -	120
Baffle or Diffuser	Finish	Ballast	Tandem Wiring	Circuiting	Other Options	Volts
BW PBSS SGL	TCWM (textured matte white) is standard	ELB10 is standard for T8  LP/ELB is standard for T5 or T5HO	-- →	1CWQ	Other Options  F LP/EF	120 277
			TW →	2CWQ		
see Baffle and Diffuser Options	see LiteColors™ for other finishes	DA/MK7* DL/ECO* DO/HEL*	see notes		see Other Options	
		see Ballast Options		notes: Lamp count = total number of lamps in the fixture Tandem wiring not available for one-lamp cross-section fixtures *Dimming ballasts not available for all lamp types and combinations For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.		

**W-D-4446T5HO-PBSS-TCWM-LP/ELB-TW-2CWQ-F-120** 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.



## Baffle & Diffuser Options

- BW** Blade baffles, matte white finish. 3/8" high x 1/2" OC, steel, regressed.
- PBSS** Parabolic semi-specular parabolic baffle. 1 13/32" high x 2" OC, anodized aluminum, regressed.
- SGL** Soft glow lens. Extruded, frosted acrylic, flush to bottom of fixture housing.

## Ballast Options

Specify in place of **ELB10** or **LP/ELB**, 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

## Tandem Wiring & Circuiting Options

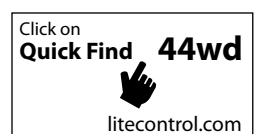
- 1CWQ** Fixture is wired with a single-circuit so that all lamps are switched together.
- TW-2CWQ** Fixtures wired with two circuits. 2-lamp in cross section fixtures, the fixture is wired such that the in-line lamps are switched separately.

## 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

- Row information, including desired fixture lengths?
- Lamp type?
- Diffuser options?
- White finish, or special color?
- Ballast options?
- Other options?
- 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 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. 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.

**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.

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

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

**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 to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-wiring Information for details.

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

**MOUNTING.** Provided with two wall-mounting brackets measuring 7" long X 2 3/4" high X 1/2" deep. Finish is TCWM (Textured Matte White).

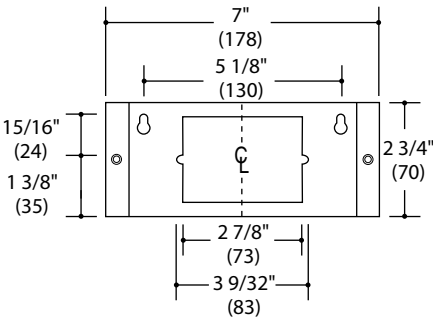
**SYSTEM CONNECTORS.** Non-lighted, field-measured corners available. Die-formed steel, 90° and 135° inside and outside corners. Bottom and exposed sides to be smooth with no exposed fasteners or knockouts, finished to match fixture housing. Refer to Field Measurement Procedure in the Litecontrol Product Guide for instructions.

**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™ Silver by MBDC.

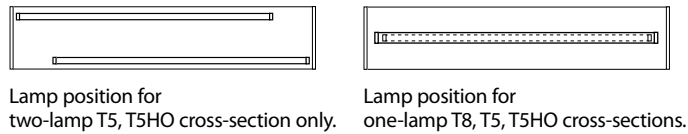
Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

## Planning for installation

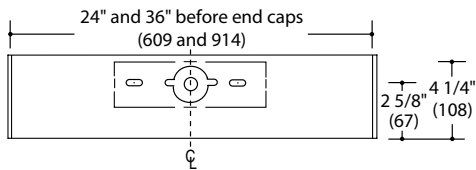
### Wall Bracket Detail



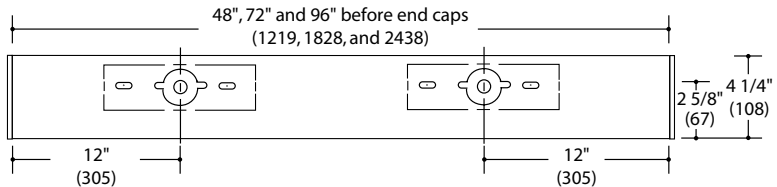
### Lamp Position



### Individual Fixtures (2' and 3')

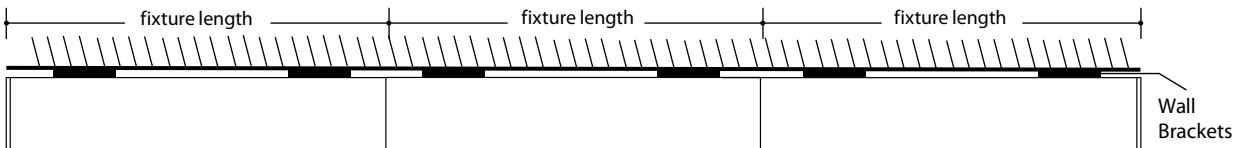


### Individual Fixtures (4', 6' and 8')

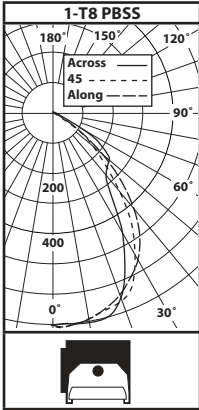


Fixture Lengths: 2', 3', 4', 6', and 8'  
 5/16" wall bracket mounting slots  
 2" knockouts for electrical feed

### Row Diagram



Photometric data T8



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	4	5	2	4	5	
85	5	5	5	5	4	5
80	4	2	2	5	5	
75	2	4	4	2	5	4
70	5	4	6	5	2	
65	7	5	4	20	29	21
60	20	20	40	85	131	
55	78	74	106	159	195	109
50	184	174	175	209	238	
45	308	297	243	245	252	207
40	414	414	331	282	271	
35	496	500	442	369	336	272
30	555	558	540	486	454	
25	602	603	617	594	563	275
20	641	642	657	663	652	
15	669	663	672	692	692	192
10	689	681	691	696	696	
5	700	696	696	697	696	67
0	699	699	699	699	699	

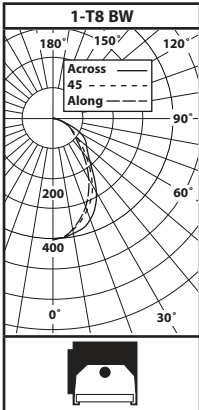
W-D-4414T8-PBSS 39.6% Efficiency Litecontrol Certified Test Report #11042004																		
RCC	80			70			50			30			10	0				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.47	.47	.47	.47	.46	.46	.46	.46	.44	.44	.42	.42	.42	.40	.40	.40	.40	.40
1	.45	.43	.42	.41	.44	.43	.42	.41	.41	.40	.39	.39	.38	.38	.37	.37	.36	
2	.42	.40	.38	.36	.41	.39	.37	.36	.38	.36	.35	.37	.35	.34	.35	.35	.34	.33
3	.39	.36	.34	.32	.39	.36	.34	.32	.35	.33	.32	.34	.32	.31	.33	.32	.31	.30
4	.37	.33	.31	.29	.36	.33	.31	.29	.32	.30	.28	.31	.29	.28	.30	.29	.28	.27
5	.34	.31	.28	.26	.34	.30	.28	.26	.29	.27	.25	.29	.27	.25	.28	.26	.25	.24
6	.32	.28	.25	.23	.32	.28	.25	.23	.27	.25	.23	.26	.24	.23	.26	.24	.23	.22
7	.30	.26	.23	.21	.29	.25	.23	.21	.25	.22	.21	.24	.22	.20	.24	.22	.20	.20
8	.28	.23	.21	.19	.27	.23	.20	.19	.23	.20	.18	.22	.20	.18	.22	.20	.18	.18
9	.26	.21	.18	.16	.25	.21	.18	.16	.21	.18	.16	.20	.18	.16	.20	.18	.16	.16
10	.24	.19	.17	.15	.24	.19	.17	.15	.19	.16	.15	.19	.16	.15	.18	.16	.15	.14

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	1148	39.59	100.00
180-0°	1148	39.59	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1278	1015	1050
55°	399	544	1001
65°	50	26	204
75°	28	42	57
85°	168	168	126



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	5	6	4	2	4	14
85	29	28	28	28	34	
80	49	50	50	54	58	57
75	74	73	78	84	103	
70	97	96	102	120	150	112
60	130	127	133	167	209	
55	161	161	166	203	254	166
50	189	191	209	247	282	
45	234	237	271	296	322	214
40	305	316	347	365	375	
35	389	399	432	448	468	269
30	472	474	520	541	560	
25	550	547	592	630	651	273
20	623	618	652	704	713	
15	690	687	702	740	758	202
10	749	745	754	770	773	
5	793	784	788	797	791	75
0	804	804	804	804	804	

W-D-4414T8-BW 47.5% Efficiency Litecontrol Certified Test Report #11042004																		
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	.57	.57	.57	.57	.55	.55	.55	.55	.53	.53	.53	.51	.51	.51	.49	.49	.49	.48
1	.53	.51	.50	.48	.52	.50	.49	.47	.48	.47	.46	.46	.45	.44	.45	.44	.43	.42
2	.49	.46	.43	.41	.48	.45	.43	.41	.43	.41	.40	.42	.40	.39	.41	.39	.38	.37
3	.45	.41	.38	.36	.44	.41	.38	.35	.39	.37	.35	.38	.36	.34	.37	.35	.34	.33
4	.42	.38	.34	.31	.41	.37	.34	.31	.36	.33	.31	.35	.32	.30	.34	.32	.30	.29
5	.39	.34	.30	.27	.38	.33	.30	.27	.32	.29	.27	.31	.29	.27	.31	.28	.26	.26
6	.36	.31	.27	.25	.36	.30	.27	.24	.30	.27	.24	.29	.26	.24	.28	.26	.24	.23
7	.34	.28	.25	.22	.33	.28	.24	.22	.27	.24	.22	.26	.24	.21	.26	.23	.21	.21
8	.32	.26	.22	.19	.31	.25	.22	.19	.25	.22	.19	.24	.21	.19	.24	.21	.19	.18
9	.29	.23	.20	.17	.29	.23	.20	.17	.23	.19	.17	.22	.19	.17	.22	.19	.17	.16
10	.27	.21	.18	.16	.27	.21	.18	.15	.21	.18	.15	.20	.17	.15	.20	.17	.15	.14

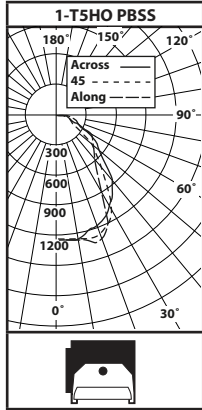
Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	1378	47.53	100.00
180-0°	1378	47.53	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	970	1131	1345
55°	822	851	1307
65°	676	713	1044
75°	553	568	666
85°	168	333	169

Photometric data T5HO



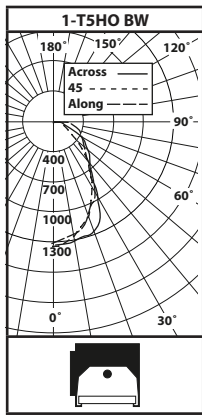
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	7	3	7	7	5	
85	7	5	7	5	5	7
80	7	7	5	3	5	
75	5	7	5	7	8	7
70	7	7	7	7	13	
65	8	5	20	44	57	40
60	33	39	76	161	234	
55	127	124	195	295	348	194
50	325	298	299	376	417	
45	545	537	405	421	436	360
40	734	763	525	482	475	
35	877	931	744	566	560	471
30	981	1041	1002	789	716	
25	1061	1103	1170	1093	1010	502
20	1119	1154	1235	1275	1254	
15	1171	1189	1243	1302	1308	350
10	1210	1210	1238	1263	1267	
5	1236	1223	1228	1245	1236	118
0	1230	1230	1230	1230	1230	

W-D-4414T5HO-PBSS 45.4% Efficiency Litecontrol Certified Test Report #58016340																						
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	.54	.54	.54	.54	.53	.53	.53	.53	.50	.50	.50	.48	.48	.48	.46	.46	.46	.46	.45			
1	.51	.50	.48	.47	.50	.49	.48	.47	.47	.46	.45	.45	.44	.44	.44	.43	.42	.42				
2	.48	.46	.44	.42	.47	.45	.43	.41	.43	.42	.40	.42	.41	.40	.41	.40	.39	.38				
3	.45	.42	.39	.37	.44	.41	.39	.37	.40	.38	.36	.39	.37	.36	.38	.36	.35	.34				
4	.42	.38	.35	.33	.42	.38	.35	.33	.37	.34	.33	.36	.34	.32	.35	.33	.32	.31				
5	.40	.35	.32	.30	.39	.35	.32	.30	.34	.31	.29	.33	.31	.29	.32	.30	.29	.28				
6	.37	.32	.29	.27	.36	.32	.29	.27	.31	.28	.26	.30	.28	.26	.30	.28	.26	.25				
7	.35	.30	.26	.24	.34	.29	.26	.24	.29	.26	.24	.28	.26	.24	.27	.25	.24	.23				
8	.32	.27	.24	.22	.32	.27	.24	.21	.26	.23	.21	.26	.23	.21	.25	.23	.21	.20				
9	.30	.25	.21	.19	.29	.24	.21	.19	.24	.21	.19	.23	.21	.19	.23	.21	.19	.18				
10	.28	.23	.19	.17	.27	.22	.19	.17	.22	.19	.17	.21	.19	.17	.21	.19	.17	.16				

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	2044	45.44	100.00
180-0°	2044	45.44	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	2235	1667	1796
55°	642	990	1767
65°	56	135	392
75°	56	56	92
85°	222	222	167



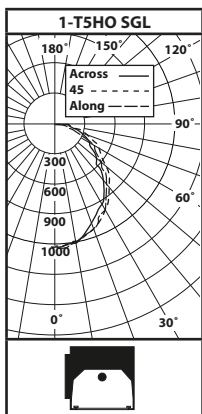
CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	5	7	5	5	7	
85	7	15	20	8	11	23
80	46	47	45	59	57	
75	88	86	86	96	111	101
70	137	130	137	150	195	
65	174	176	185	220	285	203
60	229	224	234	301	384	
55	282	286	299	371	464	298
50	338	338	377	444	519	
45	410	430	475	522	579	380
40	538	573	625	604	659	
35	695	722	799	787	787	482
30	839	857	957	1020	1028	
25	983	991	1087	1184	1235	501
20	1113	1113	1183	1287	1339	
15	1230	1228	1269	1349	1380	365
10	1336	1334	1357	1386	1393	
5	1419	1404	1419	1432	1420	135
0	1441	1441	1441	1441	1441	

W-D-4414T5HO-BW 55.2% Efficiency Litecontrol Certified Test Report #58016300																						
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	.66	.66	.66	.66	.64	.64	.64	.64	.61	.61	.61	.59	.59	.59	.56	.56	.56	.55				
1	.61	.59	.57	.56	.60	.58	.56	.55	.56	.54	.53	.54	.53	.52	.52	.51	.50	.49				
2	.57	.53	.50	.48	.56	.52	.49	.47	.50	.48	.46	.49	.47	.45	.47	.46	.44	.43				
3	.53	.48	.44	.42	.52	.47	.44	.41	.46	.43	.41	.44	.42	.40	.43	.41	.39	.38				
4	.49	.44	.40	.36	.48	.43	.39	.36	.42	.38	.36	.40	.38	.35	.39	.37	.35	.34				
5	.45	.39	.35	.32	.44	.39	.35	.32	.38	.34	.31	.37	.33	.31	.36	.33	.31	.30				
6	.42	.36	.32	.29	.41	.35	.31	.28	.34	.31	.28	.34	.30	.28	.33	.30	.28	.27				
7	.39	.33	.29	.26	.39	.32	.28	.25	.32	.28	.25	.31	.27	.25	.30	.27	.25	.24				
8	.37	.30	.26	.23	.36	.29	.25	.23	.29	.25	.22	.28	.25	.22	.27	.24	.22	.21				
9	.34	.27	.23	.20	.33	.27	.23	.20	.26	.23	.20	.26	.22	.20	.25	.22	.20	.19				
10	.32	.25	.21	.18	.31	.25	.21	.18	.24	.20	.18	.24	.20	.18	.23	.20	.18	.17				

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	2483	55.20	100.00
180-0°	2483	55.20	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1681	1956	2384
55°	1424	1519	2353
65°	1195	1277	1961
75°	986	968	1244
85°	222	656	384



CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
90	7	7	3	5	7	
85	20	20	20	11	13	28
80	75	70	65	54	54	
75	135	124	117	106	104	126
70	205	197	174	168	158	
65	278	267	247	228	221	248
60	358	345	321	298	293	
55	443	430	397	373	366	361
50	532	519	483	451	441	
45	625	605	571	542	527	444
40	709	690	664	626	612	
35	800	781	747	718	701	470
30	883	859	832	807	789	
25	950	934	905	892	872	421
20	1009	989	974	965	950	
15	1053	1041	1030	1027	1015	292
10	1085	1079	1072	1072	1067	
5	1110	1098	1098	1100	1093	105
0	1109	1109	1109	1109	1109	

W-D-4414T5HO-SGL 55.4% Efficiency Litecontrol Certified Test Report #58016990																						
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	.66	.66	.66	.66	.64	.64	.64	.64	.62	.62	.62	.59	.59	.59	.57	.57	.57	.55				
1	.61	.59	.57	.55	.60	.58	.56	.54	.55	.54	.53	.53	.52	.51	.51	.50	.49	.48				
2	.56	.53	.49	.46	.55	.51	.48	.46	.49	.47	.45	.48	.46	.44	.46	.44	.43	.42				
3	.52	.47	.43	.40	.51	.46	.42	.39	.45	.41	.39	.43	.40	.38	.42	.39	.38	.36				
4	.48	.42	.38	.34	.47	.41	.37	.34	.40	.36	.34	.39	.36	.33	.38	.35	.33	.32				
5	.44	.38	.33	.30	.43	.37	.33	.29	.36	.32	.29	.35	.31	.29	.34	.31	.28	.27				
6	.41	.34	.29	.26	.40	.33	.29	.26	.32	.29	.26	.31	.28	.25	.31	.28	.25	.24				
7	.38	.31	.26	.23	.37	.30	.26	.23	.29	.25	.23	.29	.25	.22	.28	.25	.22	.21				
8	.35	.28	.23	.20	.34	.27	.23	.20	.27	.23	.20	.26	.22	.20	.25	.22	.20	.19				
9	.32	.25	.21	.17	.31	.25	.20	.17	.24	.20	.17	.23	.20	.17	.23	.20	.17	.16				
10	.30	.23	.18	.16	.29	.22	.18	.16	.22	.18	.15	.21	.18	.15	.21	.18	.15	.14				

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	2492	55.39	100.00
180-0°	2492	55.39	100.00

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	2562	2350	2170
55°	2238	2014	1858
65°	1909	1704	1525
75°	1512	1314	1171
85°	654	656	440