



8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Report No: L112411505



Report No: L112411505

Issue Date: 12/2/2024

Report Prepared For: Prudential Lighting
1774 E 21 ST, LOS ANGELES, CA, 90058

Reference: N/A

Amendment: N/A

Model Number: WV2-LED35-80-SO-4'-SAL-TMW-D2-SACW-SC-UNV-DM01

Test: Photometric/Electrical Test

Standards Used: Appropriate part or all test guidelines were used for test performed:

IESNA LM79: 2019 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2017 Specification of the Chromaticity of Solid State Lighting Products

ANSI C82.77-10:2014: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Special Test Condition: Fixture is tested with no special conditions.

Date of Tests: 11/21/24

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/25
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	5/24/25
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

General Information

Manufacturer:	Prudential Lighting	D2
Model Number:	WV2-LED35-80-SO-4'-SAL-TMW-1	SACW-SC-UNV-DM01
Driver Model Number:	OPTOTRONIC OTi 50/120-277/1A4 DIM-1 L G2	

Photometric & Electrical Test Results

Total Lumens:	5982.00
Efficacy:	127.09
Input Voltage (VAC/60Hz):	120.13
Input Current (Amp):	0.3965
Input Power (W):	47.07
Input Power Factor:	0.9880
Current ATHD (%):	7.8%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	1:15

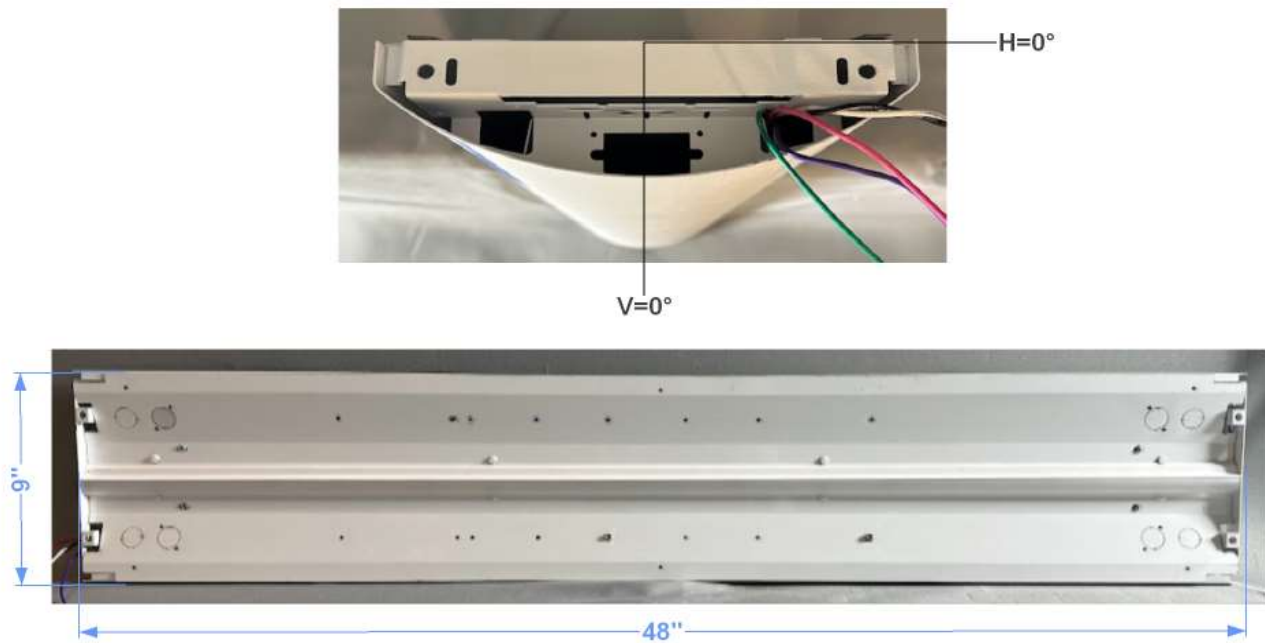


FIG. 1 LUMINAIRE



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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by : JG

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports.*



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Photometric Test Report

IES INDOOR REPORT

PHOTOMETRIC FILENAME : L112411505.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L112411505

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 11/21/2024

[MANUFAC] Prudential Lighting

[LUMCAT] WV2-LED35-80-SO-4'-SAL-TMW-D9-SACW-SC-UNV-DM01

[LUMINAIRE] LED PENDANT LUMINAIRE

[BALLASTCAT] OPTOTRONIC OTi 50/120-277/1A4 DIM-1 L G2

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[INPUT] 120 VAC

[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5982
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	47.07
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.58 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

54	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
91	17	91	54	93	8	2	3	3	3
92	160	209	221	200	16	5	6	4	5
93	319	387	332	286	25	10	9	8	8
94	508	568	537	361	35	15	14	12	12
95	680	738	678	466	47	19	20	17	17
96	850	913	800	515	61	30	27	22	23
97	1023	1063	908	559	78	36	33	29	30
98	1184	1197	1010	605	92	44	37	36	37
99	1322	1312	1144	681	108	51	43	42	43
100	1439	1426	1216	718	126	60	56	46	48
101	1551	1565	1279	752	144	73	66	51	52
102	1678	1651	1340	796	162	84	72	56	57
103	1784	1716	1403	845	180	94	81	69	66
104	1848	1774	1461	884	200	102	87	80	85
105	1906	1835	1524	897	219	110	96	87	88
106	1962	1893	1595	904	238	117	105	92	93
107	2018	1952	1690	913	258	125	115	99	98
108	2073	2010	1754	928	278	133	127	106	105
109	2127	2068	1814	942	298	145	137	113	111

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CANDELA TABULATION - (Cont.)

110	2187	2136	1874	959	318	156	147	121	118
111	2237	2223	1938	975	336	169	157	129	125
112	2309	2303	2003	992	357	182	167	139	133
113	2386	2372	2068	1009	377	195	177	148	144
114	2471	2431	2129	1026	397	208	186	158	151
115	2528	2500	2180	1043	417	222	195	166	161
116	2595	2564	2209	1059	436	237	205	175	169
117	2659	2635	2226	1076	457	253	213	183	176
118	2724	2697	2239	1092	476	266	222	192	183
119	2791	2762	2254	1109	496	283	232	201	192
120	2855	2816	2268	1126	514	298	241	209	199
121	2916	2867	2281	1143	534	314	252	216	208
122	2973	2900	2294	1161	552	330	265	224	215
123	3023	2919	2304	1175	572	341	276	232	222
124	3061	2937	2312	1192	590	361	289	240	230
125	3085	2953	2317	1204	610	379	301	248	237
126	3104	2967	2319	1218	629	396	315	258	244
127	3121	2980	2318	1229	647	413	328	266	253
128	3136	2991	2313	1241	666	430	342	276	262
129	3150	2997	2307	1251	684	447	355	286	270
130	3162	2999	2297	1261	702	464	369	297	279
131	3170	2998	2285	1271	721	481	384	308	289
132	3174	2992	2269	1279	738	498	398	321	300
133	3173	2981	2252	1287	756	514	414	333	311
134	3168	2966	2232	1295	773	531	428	344	323
135	3156	2945	2212	1302	791	549	444	357	335
136	3141	2920	2190	1309	807	565	459	370	347
137	3118	2890	2167	1315	825	582	475	385	361
138	3094	2855	2143	1321	842	598	491	398	375
139	3061	2819	2120	1327	858	616	508	414	388
140	3027	2776	2095	1332	874	632	525	429	404
141	2983	2735	2068	1338	890	649	543	445	418
142	2938	2687	2041	1342	907	666	560	461	435
143	2889	2640	2016	1347	921	682	577	478	449
144	2836	2589	1988	1351	937	699	594	495	468
145	2781	2541	1963	1355	951	714	610	512	486
146	2724	2487	1935	1359	967	731	628	530	503
147	2665	2435	1911	1363	981	747	644	549	522
148	2606	2383	1884	1365	995	763	661	570	541
149	2545	2331	1859	1369	1009	779	678	590	562
150	2485	2279	1835	1371	1022	795	693	609	584
151	2424	2227	1810	1373	1035	811	710	629	605
152	2363	2177	1788	1375	1048	826	726	648	625
153	2302	2128	1764	1376	1060	842	743	667	646
154	2244	2078	1743	1377	1073	857	760	685	668
155	2186	2033	1721	1377	1084	872	776	705	686
156	2130	1986	1701	1377	1096	888	792	722	707
157	2076	1945	1681	1377	1107	903	808	742	725
158	2019	1901	1661	1376	1117	918	824	761	746
159	1970	1864	1642	1374	1127	933	840	778	763
160	1922	1824	1624	1372	1137	948	856	796	784
161	1877	1789	1605	1369	1146	962	872	814	801
162	1834	1753	1587	1366	1155	978	889	832	821
163	1793	1718	1569	1363	1163	991	906	849	839
164	1754	1688	1551	1358	1171	1007	921	867	858
165	1716	1655	1533	1353	1178	1020	939	885	876

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CANDELA TABULATION - (Cont.)

166	1681	1626	1514	1348	1185	1036	955	903	895
167	1646	1595	1495	1342	1192	1050	972	921	914
168	1613	1568	1477	1336	1198	1064	989	940	933
169	1580	1538	1457	1328	1203	1078	1007	959	953
170	1549	1509	1438	1321	1208	1091	1025	978	973
171	1517	1480	1417	1313	1213	1105	1043	999	994
172	1485	1450	1398	1304	1217	1118	1062	1018	1016
173	1453	1421	1376	1295	1221	1132	1081	1041	1038
174	1418	1392	1355	1285	1224	1145	1101	1064	1062
175	1388	1362	1334	1276	1227	1158	1120	1086	1086
176	1353	1332	1312	1265	1229	1171	1141	1111	1112
177	1323	1302	1290	1255	1231	1183	1160	1134	1138
178	1288	1273	1268	1243	1232	1195	1182	1161	1166
179	1259	1243	1246	1231	1233	1208	1203	1187	1198
180	1222	1222	1222	1222	1222	1222	1222	1222	1222

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	1059.24	N.A.	17.70
90-120	2051.59	N.A.	34.30
90-130	3131.03	N.A.	52.30
90-150	4935.86	N.A.	82.50
90-180	5982.22	N.A.	100.00
110-180	4922.97	N.A.	82.30
0-180	5982.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	303.21
100-110	756.03
110-120	992.35
120-130	1079.44
130-140	997.75
140-150	807.09
150-160	579.64
160-170	349.66
170-180	117.05

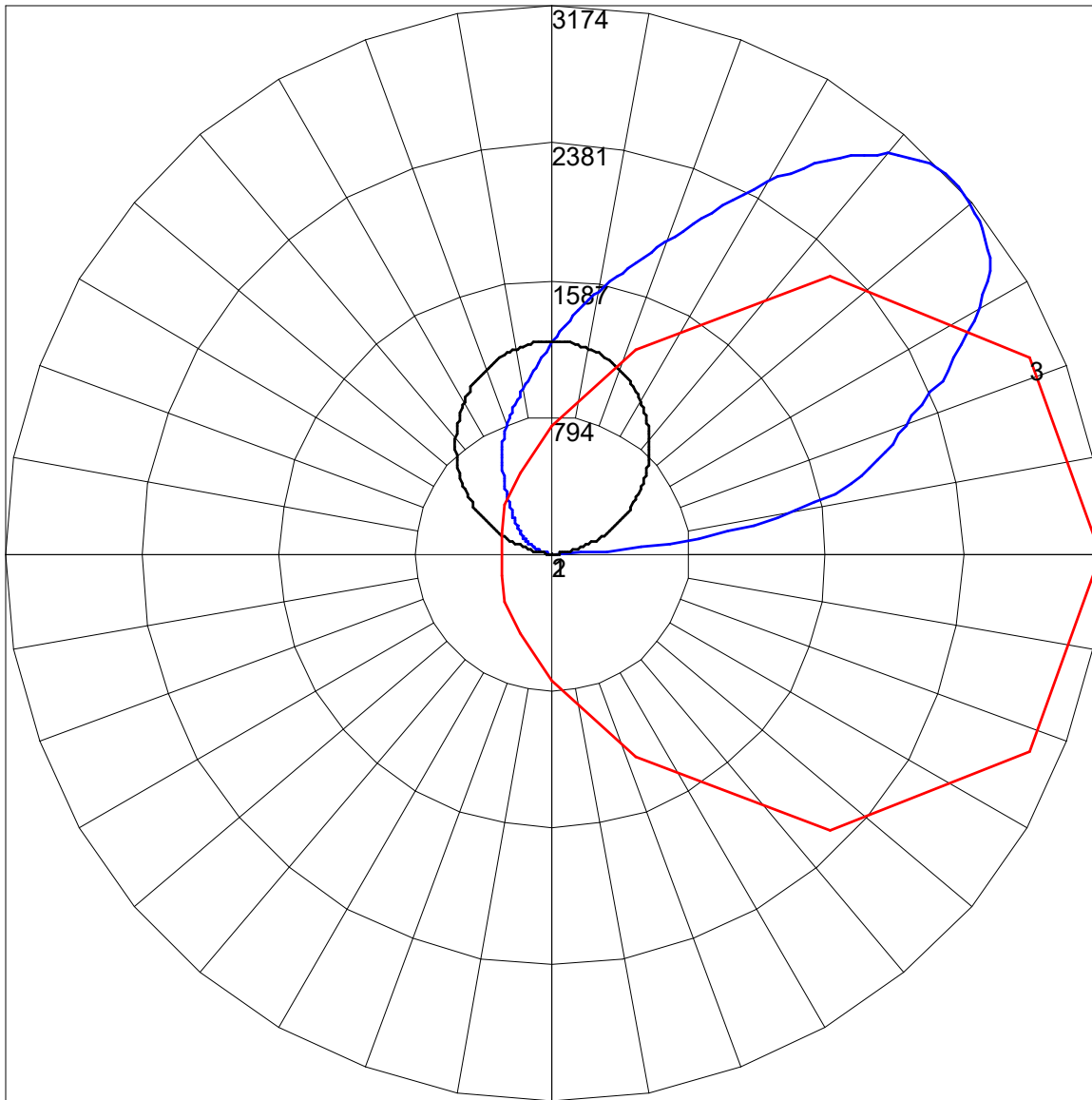
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	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
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 3174 Located At Horizontal Angle = 0, Vertical Angle = 132
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (132) (Through Max. Cd.)