



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

Report No: L112411504



**Report No:** L112411504

**Issue Date:** 12/2/2024

**Report Prepared For:** Prudential Lighting  
1774 E 21 ST, LOS ANGELES, CA, 90058  
D2

**Reference:** N/A

**Amendment:** N/A

**Model Number:** WV2-LED35-80-SO-4'-SAL-TMW-●-SCW-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

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

### Photometric & Electrical Test Results

<b>Total Lumens:</b>	6578.00
<b>Efficacy:</b>	139.74
<b>Input Voltage (VAC/60Hz):</b>	120.04
<b>Input Current (Amp):</b>	0.3967
<b>Input Power (W):</b>	47.07
<b>Input Power Factor:</b>	0.9883
<b>Current ATHD (%):</b>	7.8%

### Test Condition

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

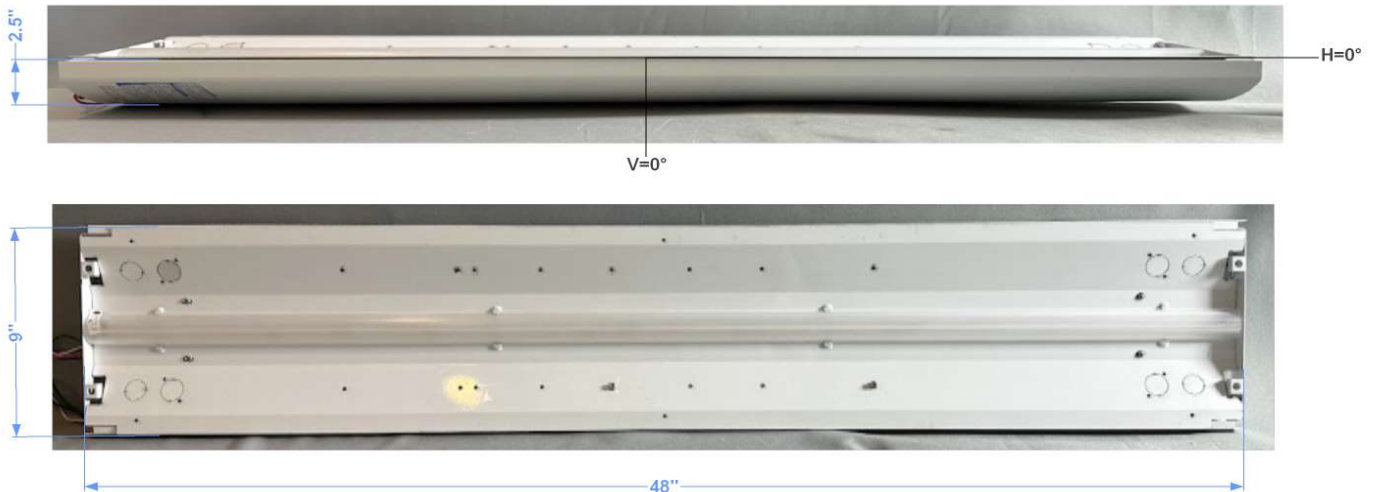


FIG. 1 LUMINAIRE



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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 : L112411504.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L112411504  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUE DATE] 11/21/2024  
[MANUFAC] Prudential Lighting  
[LUMCAT] WV2-LED35-80-SO-4'-SAL-TMW-D9-SCW-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	6578
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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)	4.00 ft
Luminous Width (90-270)	0.58 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

IES INDOOR REPORT  
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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	7	30	11	8	4	2	7	11	6
92	16	98	46	32	21	17	45	59	14
93	25	36	102	63	43	43	96	115	25
94	39	173	71	24	9	4	67	156	39
95	54	207	234	170	132	137	230	192	53
96	70	238	290	231	181	197	289	223	70
97	88	272	339	290	236	254	340	255	89
98	107	303	379	343	287	308	385	287	108
99	126	333	425	393	346	363	428	318	128
100	147	365	465	439	397	409	467	340	148
101	168	399	505	481	442	455	509	380	171
102	190	434	544	520	484	494	547	414	191
103	212	476	588	560	523	535	591	453	215
104	235	513	629	599	561	574	634	494	238
105	258	544	675	640	600	614	678	527	261
106	280	564	718	685	640	655	725	551	284
107	304	585	767	727	681	699	770	573	307
108	327	608	813	776	725	744	820	595	331
109	345	632	865	822	771	791	871	619	354

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**CANDELA TABULATION - (Cont.)**

110	372	657	921	876	818	840	924	645	377
111	395	682	974	923	867	890	980	669	401
112	419	708	1035	983	919	944	1039	696	424
113	442	733	1091	1041	975	999	1098	720	448
114	467	759	1151	1101	1029	1058	1155	748	471
115	488	786	1205	1165	1091	1119	1211	772	494
116	513	811	1258	1232	1154	1184	1261	800	517
117	536	836	1305	1301	1223	1258	1309	826	542
118	559	861	1348	1373	1289	1321	1351	851	563
119	581	886	1390	1439	1363	1396	1395	876	588
120	604	910	1432	1507	1432	1459	1437	901	610
121	626	935	1473	1573	1507	1532	1479	925	633
122	48	958	1513	1636	1578	1591	1521	949	655
123	670	981	1552	1696	1647	1659	1557	972	677
124	692	1003	587	753	715	714	594	95	699
125	714	1024	1621	1809	1779	1775	1626	1016	720
126	735	1044	1652	1863	1841	1830	1658	1037	742
127	757	1064	1680	1914	1900	1883	1684	1057	763
128	778	1083	1704	1963	1958	1934	1709	1078	784
129	799	1100	1725	2012	2016	1982	1731	1095	805
130	819	1117	1744	2050	2065	2026	1749	1114	826
131	840	1134	1758	2088	2116	2065	1764	1130	847
132	859	1149	1771	2117	2157	2100	1776	1146	867
133	879	1165	1781	2147	2200	2129	1786	1162	887
134	901	1178	1787	2166	2231	2155	1793	1176	907
135	921	1192	1792	2184	2262	2175	1797	1190	926
136	941	1204	1794	2195	2283	2190	1799	1203	947
137	960	1217	1794	2202	2302	2200	1800	1216	965
138	979	1229	1793	2204	2313	2206	1798	1228	985
139	997	1240	1789	2202	2319	2207	1795	1240	1003
140	1016	1251	1785	2196	2320	2204	1790	1251	1023
141	1034	1261	1778	2187	2316	2197	1784	1261	1039
142	1051	1272	1771	2173	2308	2185	1777	1271	1059
143	1070	1280	1762	2158	2294	2172	1768	1281	1074
144	1087	1290	1753	2140	2278	2155	1759	1290	1093
145	1104	1298	1743	2121	2258	2138	1748	1299	1110
146	1120	1307	1732	2098	2236	2115	1737	1307	1127
147	1137	1315	1721	2075	2211	2094	1724	1316	1143
148	1153	1322	1709	2050	2184	2069	1713	1323	1159
149	1169	1330	1696	2024	2155	2043	1701	1331	1175
150	1184	1337	1684	1997	2125	2016	1688	1338	1190
151	1200	1344	1671	1968	2093	1989	1675	1345	1205
152	214	350	658	941	60	961	663	350	1220
153	1230	1356	1645	1911	2027	1933	1649	1357	1234
154	1242	1362	1632	1881	1991	1904	1636	1363	1247
155	1257	1368	1620	1853	1959	1875	1624	1369	1261
156	1269	1374	1608	1824	1923	1846	1611	1374	1274
157	1283	1378	1595	1797	1890	1818	1598	1379	1287
158	1294	1384	1583	1768	1854	1789	1586	1385	1299
159	1307	1388	1571	1743	1824	1762	1576	1389	1311
160	1319	1393	1560	1715	1788	1734	1563	1393	1322
161	1330	1397	1549	1691	1759	1710	1552	1397	1334
162	1340	1401	1538	1665	1727	1683	1541	1402	1345
163	1350	1404	1528	1642	1698	1660	1530	1405	1354
164	1360	1408	1518	1620	1669	1636	1520	1409	1363
165	1369	1412	1509	1598	1644	1615	1510	1412	1372

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CANDELA TABULATION - (Cont.)

166	1377	1415	1500	1578	1618	1592	1502	1415	1380
167	1385	1417	1491	1559	1594	1572	1493	1418	1388
168	1392	1420	1484	1541	1572	1554	1485	1421	1394
169	1399	1422	1476	1525	1551	1536	1477	1423	1401
170	1405	1425	1469	1509	1532	1520	1471	1425	1407
171	1411	1427	1463	1496	1515	1505	1464	1427	1413
172	1416	1429	1458	1482	1499	1491	1458	1429	1418
173	1420	1431	1452	1472	1485	1479	1453	1431	1422
174	1425	1432	1448	1461	1473	1468	1449	1432	1426
175	1428	1433	1444	1454	1462	1459	1445	1433	1429
176	1430	1434	1441	1446	1454	1452	1441	1434	1431
177	1432	1435	1439	1441	1446	1445	1439	1435	1433
178	1434	1435	1437	1438	1441	1440	1437	1435	1435
179	1435	1436	1436	1436	1438	1437	1436	1436	1435
180	1436	1436	1436	1436	1436	1436	1436	1436	1436



**IES INDOOR REPORT**  
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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	777.79	N.A.	11.80
90-120	1748.82	N.A.	26.60
90-130	2942.98	N.A.	44.70
90-150	5315.2	N.A.	80.80
90-180	6578.11	N.A.	100.00
110-180	5800.33	N.A.	88.20
0-180	6578.11	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	180.45
100-110	597.34
110-120	971.03
120-130	1194.17
130-140	1297.95
140-150	1074.27
150-160	694.67
160-170	429.54
170-180	138.71

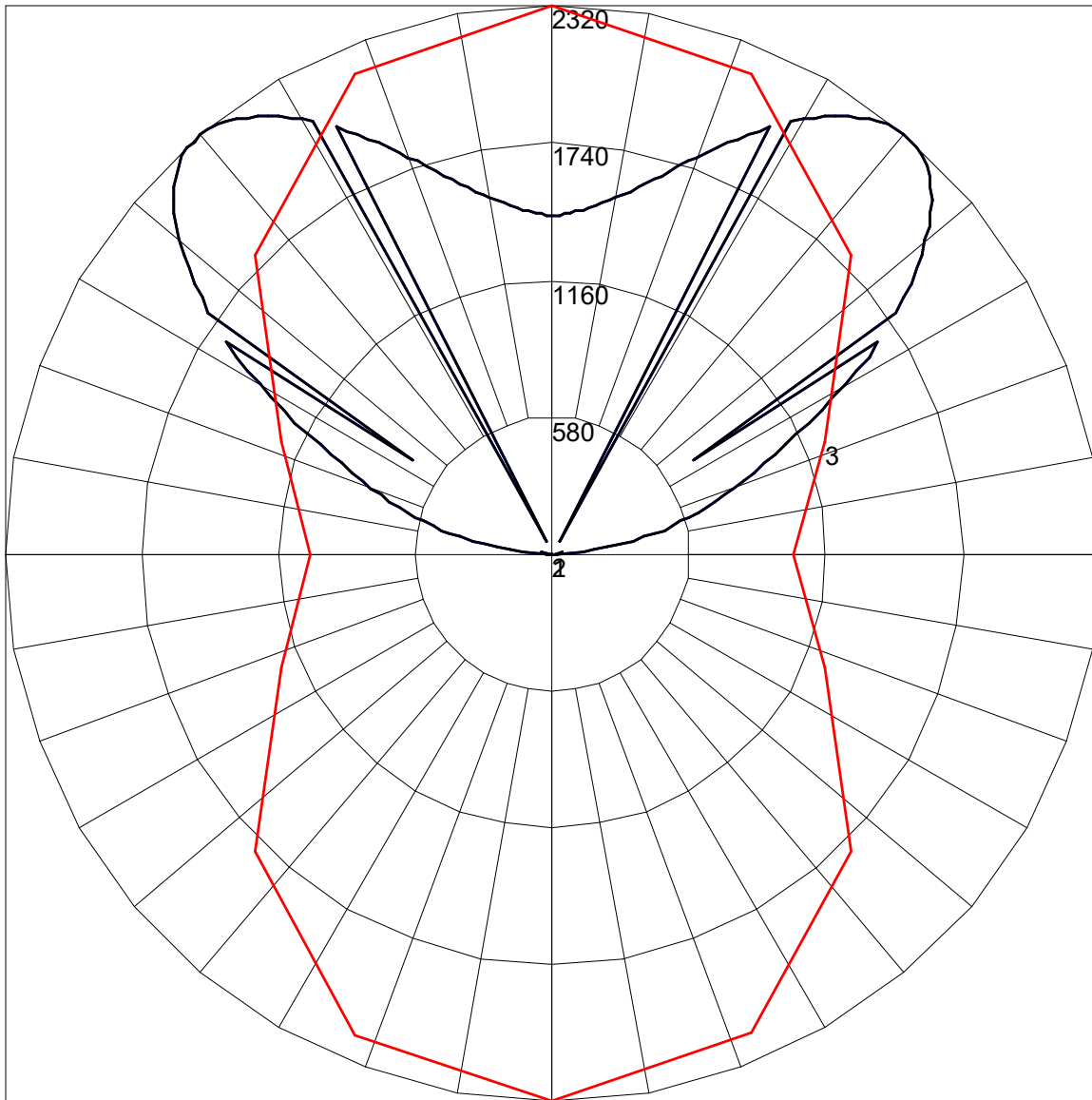
**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2320 Located At Horizontal Angle = 90, Vertical Angle = 140  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (140) (Through Max. Cd.)