



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

Report No: L112411507




**Report No:** L112411507

**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--HACW-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-	HACW-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>	4766.00
<b>Efficacy:</b>	101.34
<b>Input Voltage (VAC/60Hz):</b>	120.08
<b>Input Current (Amp):</b>	0.3965
<b>Input Power (W):</b>	47.03
<b>Input Power Factor:</b>	0.9882
<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

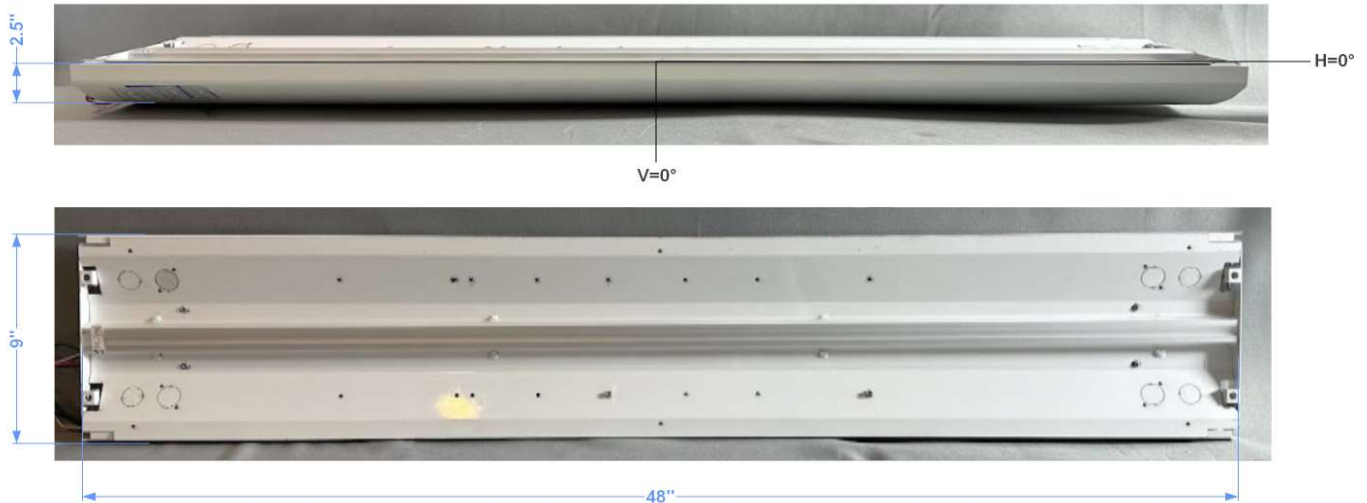


FIG. 1 LUMINAIRE



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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 : L112411507.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L112411507  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUE DATE] 11/21/2024  
[MANUFAC] Prudential Lighting  
[LUMCAT] WV2-LED35-80-SO-4'-SAL-TMW-D9-HACW-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	4766
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	47.03
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  
PHOTOMETRIC FILENAME : L112411507.IES

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	9	16	7	9	7	5	5	4	9
92	15	94	21	15	12	9	14	51	15
93	22	164	125	88	30	23	117	134	22
94	29	207	254	251	173	157	256	191	29
95	37	237	433	454	370	327	432	228	37
96	46	265	565	729	621	569	567	257	47
97	56	290	651	941	897	819	653	277	57
98	67	314	707	1086	1126	1013	709	304	67
99	77	338	754	1204	1281	1136	758	328	85
100	87	369	789	1272	1409	1228	796	346	90
101	100	397	821	1333	1488	1296	826	382	101
102	110	433	845	1378	1553	1349	849	414	113
103	123	474	871	1425	1606	1395	877	458	125
104	134	501	896	1448	1651	1436	900	492	137
105	147	502	918	1472	1685	1460	922	502	150
106	158	498	936	1498	1708	1482	942	502	163
107	172	496	955	1516	1730	1506	961	499	174
108	183	496	974	1533	1750	1524	979	499	187
109	196	496	994	1542	1765	1539	1001	499	199

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**CANDELA TABULATION - (Cont.)**

110	208	497	1018	1551	1775	1549	1024	500	212
111	220	497	1045	1556	1781	1556	1056	500	223
112	232	498	1083	1559	1782	1560	1093	501	236
113	244	498	1125	1565	1782	1564	1138	502	248
114	255	498	1150	1565	1777	1568	1160	502	259
115	267	498	1158	1573	1776	1570	1159	503	271
116	278	498	1146	1587	1769	1581	1145	502	282
117	289	497	1115	1604	1768	1596	1117	502	293
118	299	497	1087	1629	1773	1616	1090	502	303
119	310	497	1059	1647	1782	1639	1062	502	314
120	320	496	1034	1643	1796	1652	1038	501	324
121	331	496	1008	1619	1810	1640	1012	501	334
122	334	496	986	1577	1806	1610	988	500	343
123	347	496	962	1521	1775	1561	967	501	353
124	356	498	942	1464	1732	1508	945	502	362
125	365	500	920	1411	1665	1448	925	504	371
126	375	503	899	1360	1599	1396	904	506	379
127	382	505	880	1312	1536	1346	885	508	387
128	391	507	860	1266	1476	1298	865	510	395
129	399	509	842	1221	1419	1253	846	512	404
130	406	511	824	1182	1365	1211	828	514	411
131	413	513	807	1139	1311	1170	811	516	418
132	420	514	790	1106	1265	1131	794	517	425
133	427	515	774	1066	1217	1095	777	519	432
134	434	517	759	1035	1175	1059	763	520	438
135	440	518	744	1000	1132	1025	748	522	445
136	446	520	730	969	1094	993	734	523	450
137	452	521	716	939	1054	963	720	524	456
138	457	522	703	911	1018	933	706	525	462
139	463	524	690	885	983	906	694	527	467
140	468	525	680	859	953	879	682	528	472
141	472	526	669	835	921	855	672	529	477
142	478	527	659	813	892	829	663	530	482
143	482	528	651	792	865	809	654	531	486
144	487	529	644	772	840	787	647	532	490
145	490	530	636	753	816	768	639	533	494
146	495	531	630	735	794	747	632	534	498
147	498	532	623	717	772	732	625	535	502
148	502	533	617	704	752	714	620	536	505
149	505	535	611	689	733	701	613	537	509
150	509	536	605	678	717	687	608	538	512
151	512	537	600	666	702	675	603	539	515
152	515	538	596	657	688	664	598	540	518
153	518	539	592	646	675	654	594	541	521
154	520	540	588	637	663	644	590	542	523
155	523	541	584	628	653	635	586	543	526
156	525	542	581	620	642	627	583	543	528
157	528	543	578	613	633	619	579	544	530
158	530	544	575	607	624	612	577	545	533
159	532	544	572	601	617	606	574	546	535
160	534	545	570	595	609	600	571	546	536
161	536	546	568	590	603	594	569	547	538
162	538	547	566	586	596	589	568	548	540
163	540	547	565	581	591	585	566	549	542
164	542	548	563	577	586	581	564	549	543
165	543	549	562	574	581	577	563	550	545

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CANDELA TABULATION - (Cont.)

166	544	549	561	571	577	574	562	550	546
167	546	550	560	568	574	571	560	551	547
168	547	551	559	566	571	568	559	551	548
169	548	551	558	564	568	566	559	552	549
170	549	551	557	562	566	563	558	552	550
171	550	552	556	560	564	562	557	552	551
172	551	552	556	558	561	560	556	553	551
173	551	553	555	557	560	558	556	553	552
174	552	553	555	556	559	557	555	553	553
175	552	553	554	555	557	556	555	553	553
176	553	553	554	554	556	555	554	554	553
177	553	553	554	554	556	554	554	554	553
178	554	554	554	553	555	554	554	554	554
179	554	554	553	553	555	553	554	554	554
180	554	554	554	554	554	554	554	554	554

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L112411507.IES**

**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	1360.89	N.A.	28.60
90-120	2405.62	N.A.	50.50
90-130	3274.36	N.A.	68.70
90-150	4280.57	N.A.	89.80
90-180	4766.2	N.A.	100.00
110-180	3405.31	N.A.	71.40
0-180	4766.2	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	374.96
100-110	985.93
110-120	1044.73
120-130	868.74
130-140	597.82
140-150	408.38
150-160	272.77
160-170	159.84
170-180	53.02

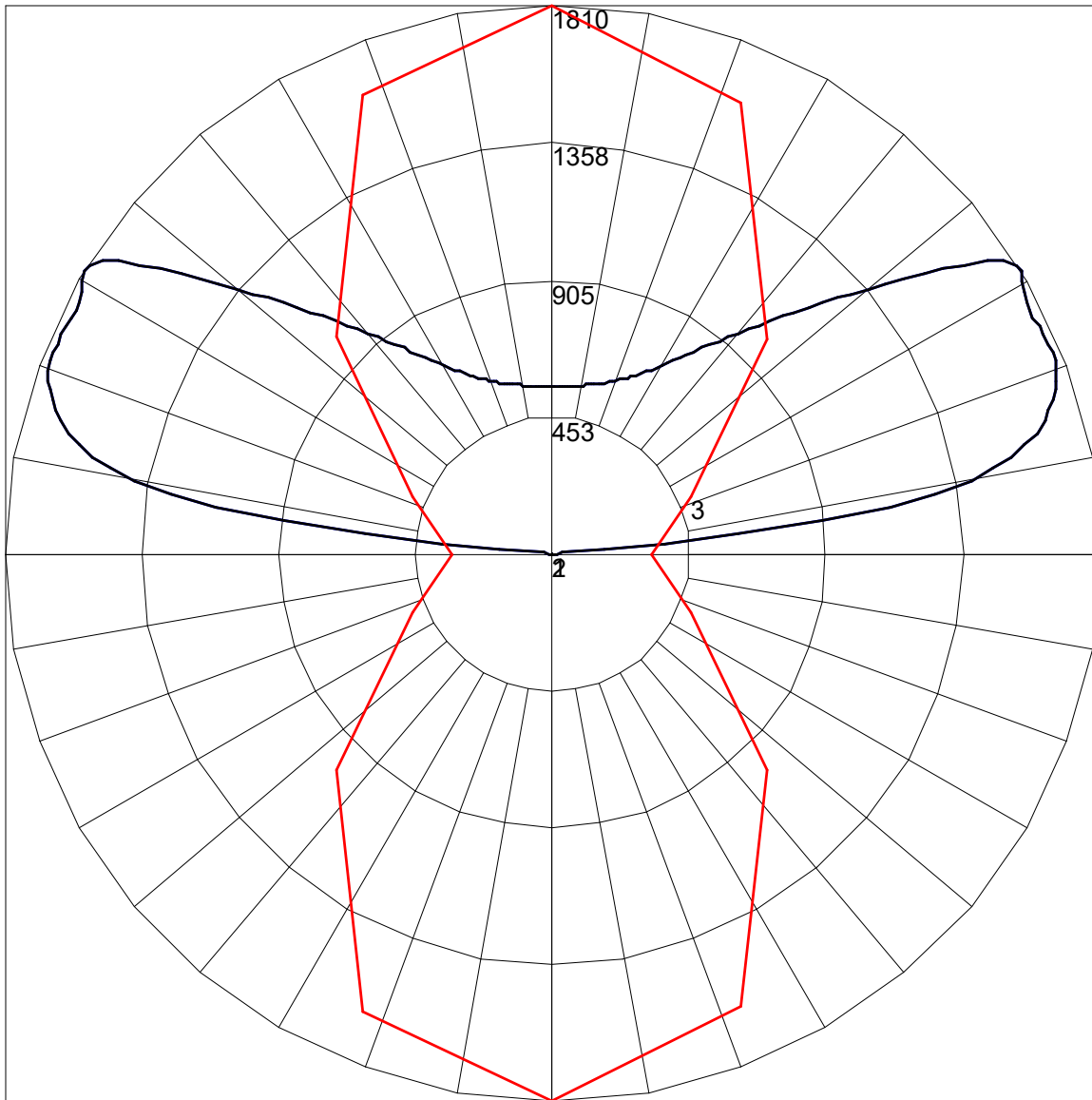
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L112411507.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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 = 1810 Located At Horizontal Angle = 90, Vertical Angle = 121  
# 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 (121) (Through Max. Cd.)