



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

Report No: L122410206



Report No: L122410206

Issue Date: 12/6/2024

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-MCW-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: 12/4/24

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-MCW-SC-UNV-DM01	
Driver Model Number:	OSRAM OTi-50 PROGRAMMED @ 1246 mA	

Photometric & Electrical Test Results

Total Lumens:	5692.00
Efficacy:	120.94
Input Voltage (VAC/60Hz):	120.02
Input Current (Amp):	0.3968
Input Power (W):	47.07
Input Power Factor:	0.9880
Current ATHD (%):	7.8%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:20



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 : L122410206.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L122410206

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

[ISSUE DATE] 12/5/2024

[MANUFAC] Prudential Lighting

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

[LUMINAIRE]

[BALLASTCAT] OSRAM OTi-50 PROGRAMMED @ 1246 mA

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

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

[INPUT] 120AC

[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5692
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	6	19	8	7	4	3	4	6	6
92	14	68	49	47	19	13	46	45	14
93	23	120	125	119	80	68	119	104	23
94	34	148	236	246	202	175	237	140	34
95	45	166	353	405	320	318	350	158	46
96	59	188	409	557	487	478	435	178	60
97	72	211	484	681	632	613	484	201	74
98	88	233	512	761	752	716	513	226	89
99	103	248	538	823	839	791	540	243	106
100	120	266	562	864	903	839	565	257	123
101	137	288	588	906	951	880	594	274	140
102	155	316	618	943	995	919	623	298	158
103	174	348	649	985	1043	961	659	333	176
104	192	375	682	1025	1088	999	690	361	195
105	212	394	710	1069	1137	1043	717	390	214
106	231	406	731	1112	1186	1085	738	401	236
107	250	418	750	1155	1236	1131	757	413	253
108	270	432	770	1195	1286	1172	777	426	275
109	290	446	792	1232	1335	1213	798	440	293

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CANDELA TABULATION - (Cont.)

110	310	461	821	1263	1382	1249	823	455	315
111	331	475	851	1291	1421	1278	858	470	334
112	349	490	894	1318	1460	1306	902	484	356
113	369	504	932	1345	1493	1332	947	498	376
114	389	517	971	1371	1525	1359	985	512	396
115	409	532	997	1401	1555	1384	1011	526	417
116	430	546	1015	1432	1585	1414	1023	541	437
117	452	563	1022	1471	1615	1448	1027	556	458
118	470	578	1024	1509	1646	1489	1028	572	478
119	493	597	1027	1546	1683	1529	1031	589	498
120	511	614	1031	1572	1723	1563	1035	608	518
121	533	633	1036	1590	1758	1588	1041	626	539
122	551	653	1041	1594	1786	1600	1046	645	559
123	573	670	1047	1588	1802	1599	1052	664	579
124	591	690	1053	1577	1808	1589	1058	682	599
125	613	707	1059	1567	1800	1578	1063	701	619
126	633	726	1064	1557	1785	1567	1069	720	639
127	653	744	1070	1547	1770	1557	1074	737	659
128	673	762	1075	1537	1753	1547	1079	756	679
129	692	780	1079	1527	1737	1537	1084	773	698
130	711	798	1084	1517	1721	1527	1088	792	718
131	730	815	1088	1507	1705	1517	1093	808	738
132	750	832	1094	1496	1688	1506	1098	827	756
133	768	849	1099	1485	1671	1495	1103	844	777
134	787	865	1105	1474	1654	1484	1109	860	794
135	806	882	1111	1463	1636	1472	1114	877	814
136	824	898	1117	1451	1618	1461	1121	893	830
137	842	914	1123	1440	1600	1449	1127	910	850
138	859	930	1130	1428	1581	1438	1134	925	867
139	876	945	1136	1418	1562	1427	1140	941	884
140	893	960	1143	1407	1544	1416	1147	955	901
141	910	974	1149	1397	1526	1405	1152	970	918
142	928	988	1154	1387	1507	1395	1158	984	934
143	943	1002	1160	1378	1491	1385	1163	998	950
144	960	1015	1165	1370	1474	1377	1169	1012	965
145	973	1028	1170	1362	1460	1368	1174	1025	981
146	990	1041	1175	1354	1444	1361	1179	1038	995
147	1005	1053	1180	1347	1431	1353	1183	1050	1010
148	1018	1065	1184	1340	1418	1346	1188	1062	1024
149	1032	1076	1188	1333	1405	1339	1192	1073	1037
150	1045	1087	1192	1327	1393	1332	1196	1085	1050
151	1058	1098	1197	1321	1381	1325	1199	1095	1064
152	1070	1108	1200	1315	1371	1320	1203	1106	1075
153	1083	1118	1204	1309	1360	1314	1206	1116	1088
154	1094	1128	1207	1304	1350	1308	1209	1125	1100
155	1105	1136	1210	1299	1341	1303	1212	1134	1111
156	1116	1146	1213	1294	1332	1298	1215	1143	1121
157	1126	1153	1216	1289	1324	1293	1218	1151	1131
158	1137	1162	1218	1285	1316	1288	1220	1160	1141
159	1145	1169	1220	1281	1308	1284	1222	1167	1150
160	1155	1176	1223	1277	1302	1280	1225	1175	1159
161	1163	1183	1225	1273	1295	1276	1227	1181	1167
162	1172	1189	1227	1270	1289	1273	1229	1188	1175
163	1179	1195	1229	1267	1284	1270	1230	1194	1182
164	1187	1201	1230	1264	1279	1266	1232	1199	1189
165	1193	1206	1232	1261	1274	1264	1233	1205	1196

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CANDELA TABULATION - (Cont.)

166	1200	1211	1233	1259	1270	1261	1235	1210	1202
167	1205	1215	1235	1257	1266	1259	1236	1214	1208
168	1211	1219	1236	1255	1263	1257	1237	1218	1213
169	1216	1223	1237	1253	1260	1255	1238	1222	1218
170	1221	1227	1238	1251	1258	1253	1239	1226	1223
171	1225	1230	1239	1250	1255	1251	1240	1229	1226
172	1228	1233	1240	1248	1253	1250	1241	1232	1230
173	1232	1235	1241	1247	1251	1249	1241	1235	1233
174	1235	1237	1241	1246	1250	1247	1242	1237	1236
175	1237	1239	1242	1246	1248	1246	1242	1239	1238
176	1239	1240	1242	1245	1248	1246	1243	1240	1240
177	1241	1242	1243	1244	1247	1245	1243	1241	1241
178	1242	1242	1243	1244	1246	1244	1243	1242	1242
179	1243	1243	1243	1244	1246	1244	1243	1243	1243
180	1244	1244	1244	1244	1244	1244	1244	1244	1244

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	1026.35	N.A.	18.00
90-120	1989.31	N.A.	35.00
90-130	3003.62	N.A.	52.80
90-150	4660.25	N.A.	81.90
90-180	5691.53	N.A.	100.00
110-180	4665.18	N.A.	82.00
0-180	5691.53	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	284.64
100-110	741.71
110-120	962.96
120-130	1014.31
130-140	905.92
140-150	750.70
150-160	563.33
160-170	349.46
170-180	118.50

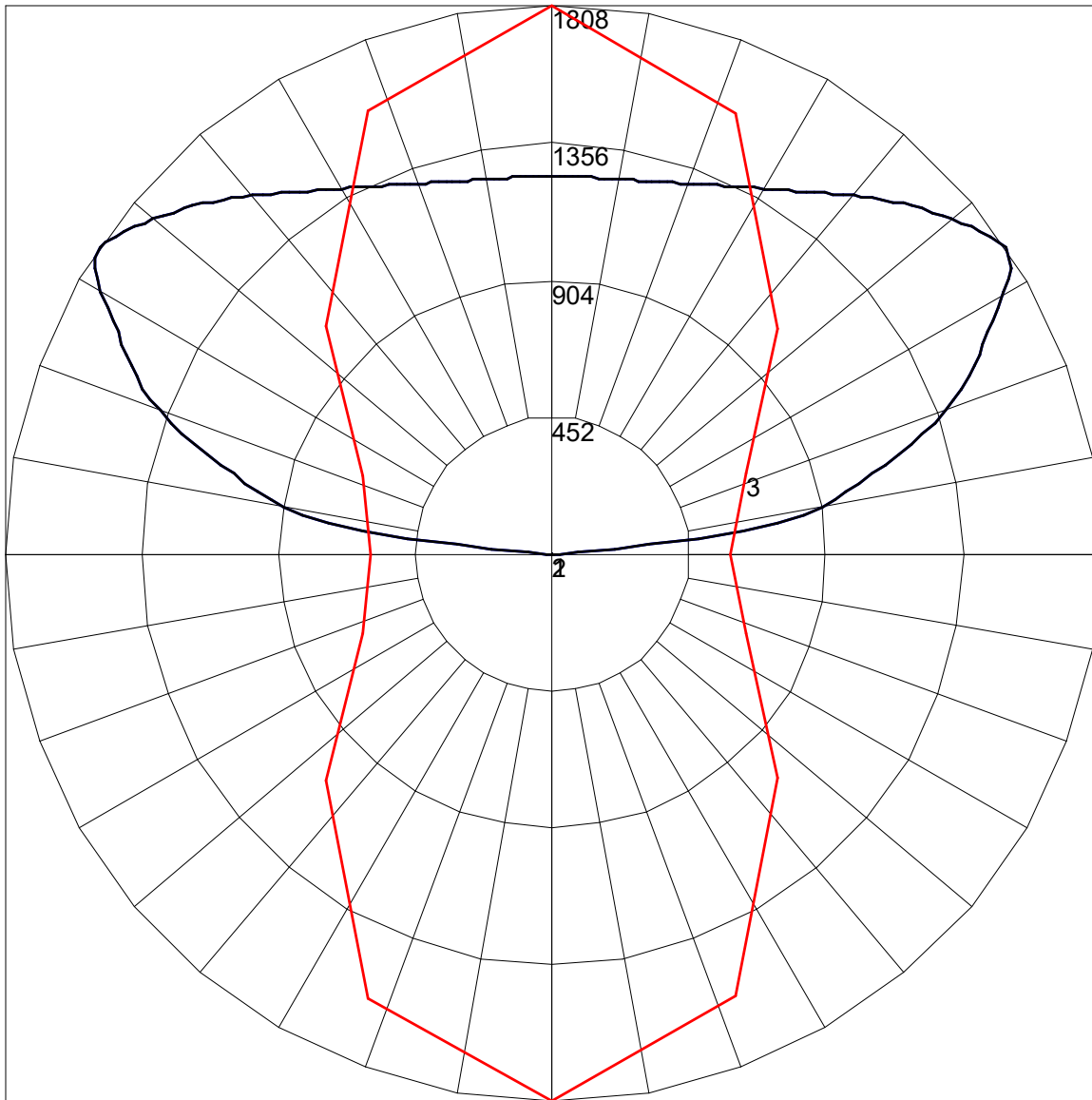
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122410206.IES

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	27	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 = 1808 Located At Horizontal Angle = 90, Vertical Angle = 124
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 (124) (Through Max. Cd.)