



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

Report No: L112411502



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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-D1-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: 11/27/24

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
Model Number:	WV2-LED35-80-SO-4'-SAL-TMW-D1-SC-UNV-DM01
Driver Model Number:	OPTOTRONIC OTi 50/120-277/1A4 DIM-1 L G2

Photometric & Electrical Test Results

Total Lumens:	5473.00
Efficacy:	122.01
Input Voltage (VAC/60Hz):	120.04
Input Current (Amp):	0.3789
Input Power (W):	44.86
Input Power Factor:	0.9862
Current ATHD (%):	8.4%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:05



FIG. 1 LUMINAIRE



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NVLAP LAB CODE 200927-0

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 : L112411502.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L112411502
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 11/25/2024
[MANUFAC] PRUDENTIAL LIGHTING
[LUMCAT] WV2-LED35-80-SO-4'-SAL-TMW-D1-SC-UNV-DM01
[LUMINAIRE] OSRAM OTi-50 PROGRAMMED @ 1192 mA
[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] 120VAC
[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5473
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	44.86
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.50 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17633	17675	17563
55	16243	16278	16001
65	14611	14681	14353
75	12407	12867	12714
85	8188	11145	11941

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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	2133	2133	2133	2133	2133	2133	2133	2133	2133
1	2132	2132	2132	2133	2134	2133	2132	2131	2131
2	2130	2131	2131	2132	2133	2131	2131	2129	2130
3	2127	2129	2128	2130	2130	2128	2128	2127	2127
4	2124	2125	2125	2127	2127	2124	2125	2123	2124
5	2118	2121	2120	2123	2122	2120	2120	2118	2119
6	2113	2116	2115	2118	2117	2114	2115	2112	2113
7	2106	2110	2108	2112	2110	2107	2108	2105	2107
8	2098	2102	2100	2105	2103	2098	2100	2096	2099
9	2089	2094	2092	2097	2094	2090	2092	2087	2090
10	2080	2084	2082	2088	2085	2080	2082	2077	2080
11	2069	2074	2072	2078	2075	2070	2072	2066	2070
12	2058	2062	2060	2067	2063	2058	2060	2054	2058
13	2045	2051	2049	2055	2051	2046	2047	2042	2046
14	2031	2037	2035	2042	2038	2032	2034	2027	2032
15	2016	2024	2020	2029	2023	2017	2020	2012	2017
16	2001	2008	2006	2014	2009	2002	2005	1997	2002
17	1984	1993	1989	1998	1992	1985	1989	1980	1985
18	1967	1975	1972	1982	1976	1968	1972	1963	1968
19	1949	1956	1954	1964	1958	1949	1954	1944	1948
20	1930	1939	1936	1946	1940	1931	1935	1926	1931
21	1910	1918	1916	1927	1919	1911	1916	1905	1909
22	1890	1899	1895	1907	1900	1890	1895	1885	1891
23	1869	1877	1874	1886	1878	1868	1874	1862	1868
24	1845	1857	1852	1864	1856	1846	1852	1839	1846
25	1824	1833	1830	1842	1833	1823	1830	1817	1823
26	1798	1811	1806	1818	1810	1799	1806	1793	1799
27	1776	1786	1782	1794	1785	1775	1782	1769	1775
28	1749	1761	1758	1768	1759	1750	1755	1743	1750
29	1726	1736	1732	1744	1733	1724	1732	1719	1725
30	1697	1710	1706	1716	1707	1697	1704	1691	1699
31	1671	1684	1678	1692	1680	1667	1680	1665	1672
32	1644	1657	1653	1662	1653	1642	1650	1638	1645
33	1616	1630	1622	1637	1624	1612	1624	1610	1618
34	1588	1602	1597	1606	1596	1586	1594	1581	1590
35	1560	1573	1566	1577	1567	1554	1566	1553	1561
36	1531	1545	1539	1548	1537	1527	1536	1524	1533
37	1502	1515	1507	1518	1505	1494	1507	1495	1501
38	1472	1487	1480	1488	1476	1466	1478	1465	1474
39	1442	1456	1447	1458	1444	1433	1447	1435	1442
40	1412	1426	1417	1428	1413	1403	1417	1403	1414
41	1382	1395	1386	1396	1381	1371	1386	1374	1381
42	1348	1365	1355	1365	1350	1340	1355	1342	1353
43	1320	1334	1324	1334	1318	1308	1324	1313	1320
44	1287	1302	1293	1301	1284	1276	1291	1280	1289
45	1258	1272	1261	1271	1253	1244	1261	1250	1258
46	1224	1239	1229	1237	1219	1212	1229	1217	1226
47	1196	1209	1198	1205	1188	1179	1198	1187	1195
48	1161	1176	1166	1171	1154	1147	1165	1154	1163
49	1129	1146	1134	1140	1122	1113	1134	1121	1132
50	1098	1113	1102	1106	1088	1083	1101	1091	1100
51	1067	1081	1071	1074	1057	1048	1069	1058	1069
52	1035	1049	1039	1041	1023	1017	1037	1028	1037
53	1003	1016	1005	1007	990	983	1004	994	1005

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

54	972	986	975	976	958	953	973	964	974
55	940	953	942	942	926	919	940	931	942
56	908	922	908	912	892	886	910	899	910
57	877	889	878	878	861	855	877	868	878
58	845	859	845	848	828	822	847	836	847
59	814	826	814	814	798	792	814	804	815
60	782	795	782	783	765	759	782	773	781
61	750	763	751	752	735	729	750	742	752
62	719	731	719	721	703	697	720	709	718
63	688	701	689	690	674	668	689	679	689
64	657	669	657	659	642	636	657	647	656
65	623	639	626	629	612	606	627	616	627
66	595	607	596	599	582	576	597	586	593
67	561	578	566	569	553	547	566	555	565
68	533	546	536	539	524	517	536	525	532
69	500	516	506	509	494	488	505	494	501
70	473	486	477	481	467	460	477	465	471
71	440	456	448	451	438	432	446	434	441
72	410	426	418	425	412	396	419	406	411
73	380	397	387	395	385	378	388	371	381
74	345	368	362	371	360	350	363	348	351
75	324	340	336	342	332	325	333	311	323
76	296	310	308	316	307	291	306	292	294
77	267	284	283	290	282	275	279	265	266
78	240	256	256	266	258	250	254	238	238
79	213	231	232	242	235	227	229	212	211
80	187	204	207	218	212	203	205	187	183
81	163	178	184	196	189	180	182	162	159
82	137	154	162	172	167	160	158	139	135
83	113	131	139	151	146	137	136	117	112
84	92	110	119	131	126	118	116	95	89
85	72	89	98	113	105	97	95	76	69
86	54	69	79	91	87	79	76	58	50
87	36	52	62	73	70	63	61	42	35
88	23	36	46	60	56	49	43	27	20
89	10	23	33	44	43	36	30	16	9
90	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	770.52	N.A.	14.10
0-30	1612.22	N.A.	29.50
0-40	2590.36	N.A.	47.30
0-60	4398.73	N.A.	80.40
0-80	5366.76	N.A.	98.10
0-90	5473.3	N.A.	100.00
10-90	5272.11	N.A.	96.30
20-40	1819.84	N.A.	33.20
20-50	2790.23	N.A.	51.00
40-70	2425.21	N.A.	44.30
60-80	968.04	N.A.	17.70
70-80	351.20	N.A.	6.40
80-90	106.54	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5473.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.19
10-20	569.33
20-30	841.70
30-40	978.14
40-50	970.39
50-60	837.98
60-70	616.84
70-80	351.20
80-90	106.54
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

IES INDOOR REPORT
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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	21.7	23.3	22.1	23.6	24.0
	3H	23.4	24.9	23.8	25.2	25.6
	4H	24.0	25.4	24.4	25.8	26.1
	6H	24.5	25.7	24.9	26.1	26.5
	8H	24.6	25.8	25.0	26.2	26.6
	12H	24.7	25.8	25.1	26.2	26.6

UGR Viewed Endwise

21.5	23.1	21.9	23.5	23.8
23.3	24.7	23.6	25.0	25.4
23.9	25.3	24.3	25.6	26.0
24.4	25.7	24.8	26.1	26.5
24.6	25.8	25.1	26.2	26.6
24.8	25.9	25.2	26.3	26.7

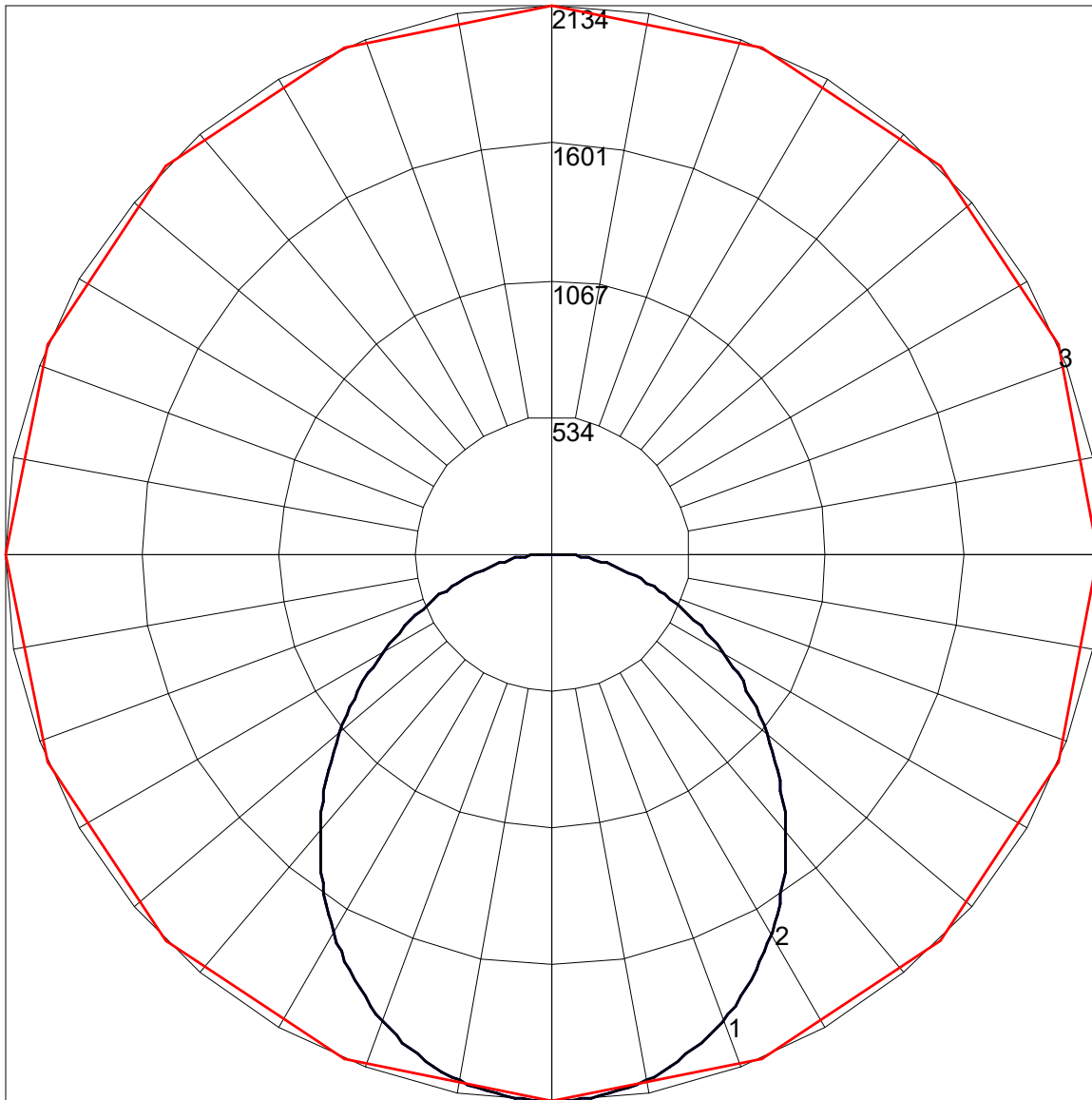
4H	2H	22.3	23.7	22.7	24.0	24.4	22.2	23.5	22.6	23.9	24.3
	3H	24.3	25.4	24.7	25.8	26.2	24.1	25.2	24.5	25.6	26.0
	4H	25.0	26.0	25.4	26.5	26.9	24.9	25.9	25.3	26.3	26.8
	6H	25.6	26.5	26.0	26.9	27.4	25.6	26.5	26.0	26.9	27.4
	8H	25.8	26.6	26.2	27.0	27.5	25.8	26.6	26.3	27.1	27.6
	12H	25.9	26.6	26.3	27.1	27.6	26.0	26.8	26.5	27.2	27.7

8H	4H	25.3	26.2	25.8	26.6	27.1	25.2	26.1	25.7	26.5	27.0
	6H	26.0	26.7	26.5	27.2	27.7	26.0	26.7	26.5	27.2	27.7
	8H	26.3	26.9	26.8	27.4	27.9	26.3	27.0	26.8	27.5	28.0
	12H	26.5	27.0	27.0	27.5	28.1	26.6	27.2	27.1	27.7	28.2

12H	4H	25.3	26.1	25.8	26.6	27.1	25.2	26.0	25.7	26.5	26.9
	6H	26.1	26.7	26.6	27.2	27.7	26.1	26.7	26.6	27.2	27.7
	8H	26.4	27.0	26.9	27.4	28.0	26.5	27.0	27.0	27.5	28.1

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 2134 Located At Horizontal Angle = 90, Vertical Angle = 1
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 (1) (Through Max. Cd.)