

IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV2-LED35-80-HO-4-SAL-TMW-D3-SYM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L112411501

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

[ISSUE DATE] 12/2/2024

[MANUFAC] PRUDENTIAL LIGHTING

[LUMCAT] WV2-LED35-80-HO-4'-SAL-TMW-D3-SYM-SC-UNV-DM01-ADC

[LUMINAIRE] (1) OSRAM OTi-50 PROGRAMMED @ 1192 mA (1) OSRAM OTi-50 PROGRAMMED @ 1246 mA"

[BALLASTCAT] OPTOTRONIC OTi 50/120-277/1A4 DIM-1 L G2 (2)

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

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

[TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	91.48
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.50 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16291	11350	10195
55	14691	9102	7966
65	12696	6787	5804
75	9918	4303	3647
85	4655	1716	1613

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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	2089	2089	2089	2089	2089	2089	2089	2089	2089
1	2086	2088	2089	2092	2090	2091	2089	2087	2086
2	2085	2087	2087	2091	2089	2089	2087	2084	2084
3	2083	2085	2085	2089	2086	2086	2085	2081	2081
4	2079	2081	2082	2086	2083	2083	2081	2078	2078
5	2074	2077	2077	2082	2078	2077	2076	2073	2074
6	2069	2072	2072	2076	2072	2071	2071	2067	2068
7	2062	2066	2065	2071	2066	2065	2065	2060	2060
8	2055	2059	2058	2064	2059	2057	2057	2051	2053
9	2047	2051	2050	2056	2050	2048	2048	2042	2043
10	2037	2041	2040	2047	2041	2039	2039	2032	2034
11	2027	2031	2030	2037	2030	2028	2028	2021	2023
12	2015	2020	2018	2026	2018	2017	2016	2009	2011
13	2003	2008	2006	2014	2006	2004	2004	1996	1999
14	1990	1995	1993	2001	1992	1991	1990	1983	1986
15	1974	1981	1979	1987	1979	1976	1977	1968	1971
16	1960	1966	1964	1973	1963	1960	1961	1952	1955
17	1943	1950	1948	1957	1947	1944	1945	1934	1939
18	1926	1934	1931	1941	1930	1926	1928	1918	1921
19	1909	1916	1913	1922	1912	1908	1910	1899	1903
20	1890	1898	1895	1905	1894	1889	1893	1881	1885
21	1870	1879	1875	1884	1874	1869	1872	1860	1866
22	1850	1859	1856	1865	1854	1849	1852	1841	1846
23	1830	1839	1834	1844	1833	1827	1830	1819	1825
24	1808	1818	1811	1823	1810	1803	1809	1797	1802
25	1785	1795	1790	1800	1789	1782	1786	1774	1779
26	1762	1772	1766	1777	1764	1757	1764	1750	1756
27	1739	1748	1743	1753	1741	1735	1739	1726	1732
28	1715	1723	1717	1729	1715	1707	1714	1701	1706
29	1690	1699	1694	1703	1691	1684	1690	1676	1683
30	1664	1673	1667	1678	1664	1656	1665	1651	1655
31	1636	1648	1641	1651	1638	1629	1639	1623	1632
32	1612	1621	1614	1625	1610	1603	1611	1598	1603
33	1582	1595	1587	1597	1582	1575	1584	1569	1578
34	1557	1566	1559	1569	1554	1547	1556	1543	1548
35	1527	1539	1531	1540	1526	1519	1526	1513	1520
36	1502	1511	1503	1512	1497	1489	1499	1486	1492
37	1470	1482	1474	1480	1466	1459	1469	1456	1463
38	1444	1453	1444	1454	1437	1429	1441	1428	1435
39	1412	1424	1415	1421	1406	1399	1410	1398	1405
40	1382	1395	1384	1394	1377	1369	1382	1367	1376
41	1353	1365	1355	1360	1345	1338	1351	1338	1346
42	1323	1335	1323	1333	1316	1307	1321	1306	1316
43	1293	1305	1294	1299	1283	1276	1289	1277	1286
44	1263	1273	1262	1268	1252	1242	1257	1245	1255
45	1232	1244	1232	1236	1220	1214	1228	1215	1225
46	1201	1212	1200	1205	1189	1180	1196	1184	1194
47	1171	1182	1171	1174	1158	1152	1166	1153	1164
48	1140	1150	1138	1143	1126	1119	1134	1122	1133
49	1109	1120	1105	1111	1093	1088	1104	1091	1102
50	1078	1088	1076	1080	1064	1056	1071	1060	1071
51	1047	1058	1043	1049	1031	1024	1040	1028	1040
52	1016	1026	1013	1017	1001	992	1009	998	1006
53	985	993	981	986	969	961	978	965	975

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CANDELA TABULATION - (Cont.)

54	954	964	951	955	939	929	947	936	944
55	923	931	919	924	907	899	914	903	913
56	889	901	888	893	876	868	884	871	882
57	860	869	857	862	846	837	852	841	851
58	827	839	826	832	815	807	823	809	820
59	799	807	795	801	785	777	791	780	790
60	765	776	765	768	754	747	760	747	759
61	737	745	734	741	724	717	730	718	728
62	703	715	704	708	694	687	699	686	697
63	675	684	674	682	666	658	670	657	667
64	642	654	645	650	637	629	639	626	636
65	611	623	613	623	607	597	611	595	605
66	581	593	585	592	579	571	580	565	575
67	551	563	555	566	550	541	552	536	545
68	520	533	526	535	524	515	522	506	515
69	491	503	498	508	495	485	494	477	482
70	461	474	469	480	469	460	465	448	456
71	431	444	440	453	441	431	437	419	423
72	402	416	412	426	415	404	410	389	397
73	373	386	385	399	389	378	382	362	365
74	333	358	355	373	364	345	355	331	339
75	317	329	331	348	336	329	329	309	308
76	289	302	308	323	315	304	303	280	280
77	262	275	282	298	291	280	278	255	253
78	234	249	257	274	267	256	252	228	226
79	208	223	233	251	245	233	229	204	200
80	183	198	209	227	222	211	204	178	175
81	157	175	187	204	201	190	181	155	151
82	134	150	164	183	180	169	159	134	126
83	110	128	143	164	160	149	139	111	104
84	90	107	123	143	141	130	118	91	85
85	69	88	105	124	124	113	99	72	63
86	51	68	87	107	107	97	84	55	45
87	34	51	72	92	92	82	68	40	30
88	20	37	58	78	78	69	54	28	16
89	8	25	46	64	66	55	42	18	6
90	6	5	4	4	4	6	9	8	5
91	17	10	8	9	13	19	24	21	16
92	34	24	21	23	31	38	42	40	34
93	53	43	40	43	51	59	64	62	54
94	76	71	61	66	73	81	87	84	80
95	98	92	87	87	96	104	110	109	100
96	121	115	108	112	121	130	135	134	124
97	148	140	140	136	146	155	161	159	151
98	173	164	176	162	172	182	189	184	176
99	201	191	195	221	199	209	217	214	204
100	226	218	225	228	231	238	249	242	233
101	259	248	251	255	257	273	280	272	263
102	286	276	276	287	295	305	305	301	293
103	318	308	304	320	325	335	332	334	324
104	334	337	328	344	357	357	366	355	358
105	381	366	365	373	383	392	401	397	388
106	412	402	396	402	413	424	434	431	422
107	447	435	430	434	446	459	468	466	456
108	484	469	465	468	481	494	504	502	494
109	517	506	497	503	516	530	540	536	527

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CANDELA TABULATION - (Cont.)

110	553	540	533	538	552	566	575	575	563
111	592	576	568	574	588	602	612	610	600
112	627	615	606	611	625	639	649	649	638
113	664	651	643	648	662	677	687	688	680
114	702	687	681	685	700	715	726	728	715
115	739	727	719	723	738	754	765	765	759
116	776	764	758	762	777	793	805	804	797
117	816	808	798	804	818	834	846	844	837
118	856	845	837	841	856	873	885	884	873
119	896	888	877	883	898	915	927	925	918
120	937	927	918	922	937	954	966	967	955
121	978	970	959	965	980	997	1010	1008	1001
122	1020	1011	1000	1006	1021	1039	1052	1050	1042
123	1062	1053	1042	1048	1063	1081	1095	1092	1084
124	1104	1095	1086	1090	1105	1124	1136	1135	1127
125	1146	1137	1127	1133	1147	1166	1181	1177	1170
126	1193	1180	1173	1177	1192	1211	1224	1222	1213
127	1231	1223	1214	1218	1232	1251	1266	1263	1255
128	1278	1265	1259	1263	1278	1297	1310	1308	1299
129	1318	1308	1300	1304	1319	1338	1353	1349	1342
130	1365	1352	1345	1349	1363	1383	1396	1394	1385
131	1403	1394	1388	1392	1407	1426	1439	1438	1428
132	1450	1437	1432	1435	1450	1470	1483	1481	1471
133	1493	1483	1475	1478	1493	1512	1525	1526	1515
134	1536	1524	1517	1522	1536	1555	1568	1568	1557
135	1578	1568	1560	1564	1579	1598	1610	1611	1600
136	1621	1608	1603	1607	1621	1641	1653	1653	1642
137	1663	1652	1645	1649	1664	1682	1697	1695	1684
138	1704	1694	1687	1691	1706	1724	1738	1736	1729
139	1745	1735	1728	1733	1747	1765	1779	1777	1767
140	1786	1776	1769	1774	1788	1806	1819	1817	1810
141	1826	1816	1810	1814	1828	1846	1859	1858	1847
142	1866	1858	1851	1857	1870	1887	1900	1896	1890
143	1905	1895	1888	1893	1907	1924	1937	1935	1925
144	1944	1935	1929	1936	1947	1964	1977	1973	1967
145	1981	1971	1965	1970	1984	2000	2012	2009	2001
146	2017	2010	2004	2010	2022	2038	2050	2046	2041
147	2053	2045	2040	2047	2058	2073	2085	2083	2077
148	2087	2081	2075	2082	2093	2108	2119	2115	2112
149	2124	2115	2112	2116	2129	2143	2153	2153	2145
150	2154	2148	2143	2149	2162	2174	2185	2183	2178
151	2189	2180	2177	2182	2194	2208	2216	2215	2209
152	2217	2211	2208	2213	2225	2237	2246	2245	2240
153	2250	2242	2239	2244	2255	2269	2276	2275	2269
154	2276	2271	2269	2273	2284	2297	2304	2304	2298
155	2308	2299	2297	2301	2312	2325	2332	2331	2326
156	2334	2327	2325	2329	2339	2352	2358	2357	2352
157	2362	2353	2351	2356	2366	2377	2383	2382	2378
158	2385	2379	2376	2382	2390	2402	2408	2406	2402
159	2409	2402	2400	2405	2414	2425	2429	2428	2424
160	2432	2426	2423	2429	2436	2447	2452	2450	2447
161	2452	2446	2446	2449	2458	2468	2472	2470	2467
162	2472	2468	2466	2471	2478	2489	2492	2489	2488
163	2492	2487	2486	2491	2498	2508	2510	2508	2507
164	2511	2506	2504	2509	2516	2525	2528	2526	2525
165	2526	2523	2523	2527	2534	2542	2544	2542	2541

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CANDELA TABULATION - (Cont.)

166	2543	2539	2539	2543	2549	2557	2559	2557	2557
167	2558	2555	2555	2558	2566	2572	2573	2571	2570
168	2572	2569	2569	2572	2578	2585	2586	2583	2584
169	2585	2581	2582	2585	2592	2597	2599	2596	2596
170	2596	2593	2594	2597	2603	2607	2607	2607	2607
171	2608	2605	2605	2608	2613	2617	2618	2616	2615
172	2617	2613	2615	2617	2623	2626	2626	2625	2625
173	2627	2623	2623	2626	2632	2634	2634	2633	2631
174	2635	2631	2632	2633	2640	2640	2640	2639	2638
175	2640	2637	2637	2639	2645	2645	2645	2643	2644
176	2646	2643	2643	2645	2650	2650	2649	2648	2648
177	2650	2647	2648	2649	2654	2653	2652	2651	2652
178	2653	2650	2651	2652	2656	2655	2653	2653	2655
179	2655	2652	2653	2655	2658	2655	2654	2654	2656
180	2656	2656	2656	2656	2656	2656	2656	2656	2656

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	754.19	N.A.	6.20
0-30	1576.73	N.A.	13.00
0-40	2531.52	N.A.	20.80
0-60	4296.08	N.A.	35.40
0-80	5248.56	N.A.	43.20
0-90	5361.64	N.A.	44.10
10-90	5164.59	N.A.	42.50
20-40	1777.33	N.A.	14.60
20-50	2723.84	N.A.	22.40
40-70	2368.99	N.A.	19.50
60-80	952.48	N.A.	7.80
70-80	348.05	N.A.	2.90
80-90	113.08	N.A.	0.90
90-110	521.30	N.A.	4.30
90-120	1257.86	N.A.	10.40
90-130	2289.72	N.A.	18.90
90-150	4753.97	N.A.	39.10
90-180	6784.34	N.A.	55.90
110-180	6263.04	N.A.	51.60
0-180	12145.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	197.05
10-20	557.13
20-30	822.54
30-40	954.80
40-50	946.51
50-60	818.05
60-70	604.43
70-80	348.05
80-90	113.08
90-100	113.45
100-110	407.85
110-120	736.55
120-130	1031.87
130-140	1221.78
140-150	1242.47
150-160	1065.17
160-170	714.30
170-180	250.90

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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	45	48	43	39	39	36	33	31	29	26	23
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	27	22	19	21	18	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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UGR TABLE - CORRECTED

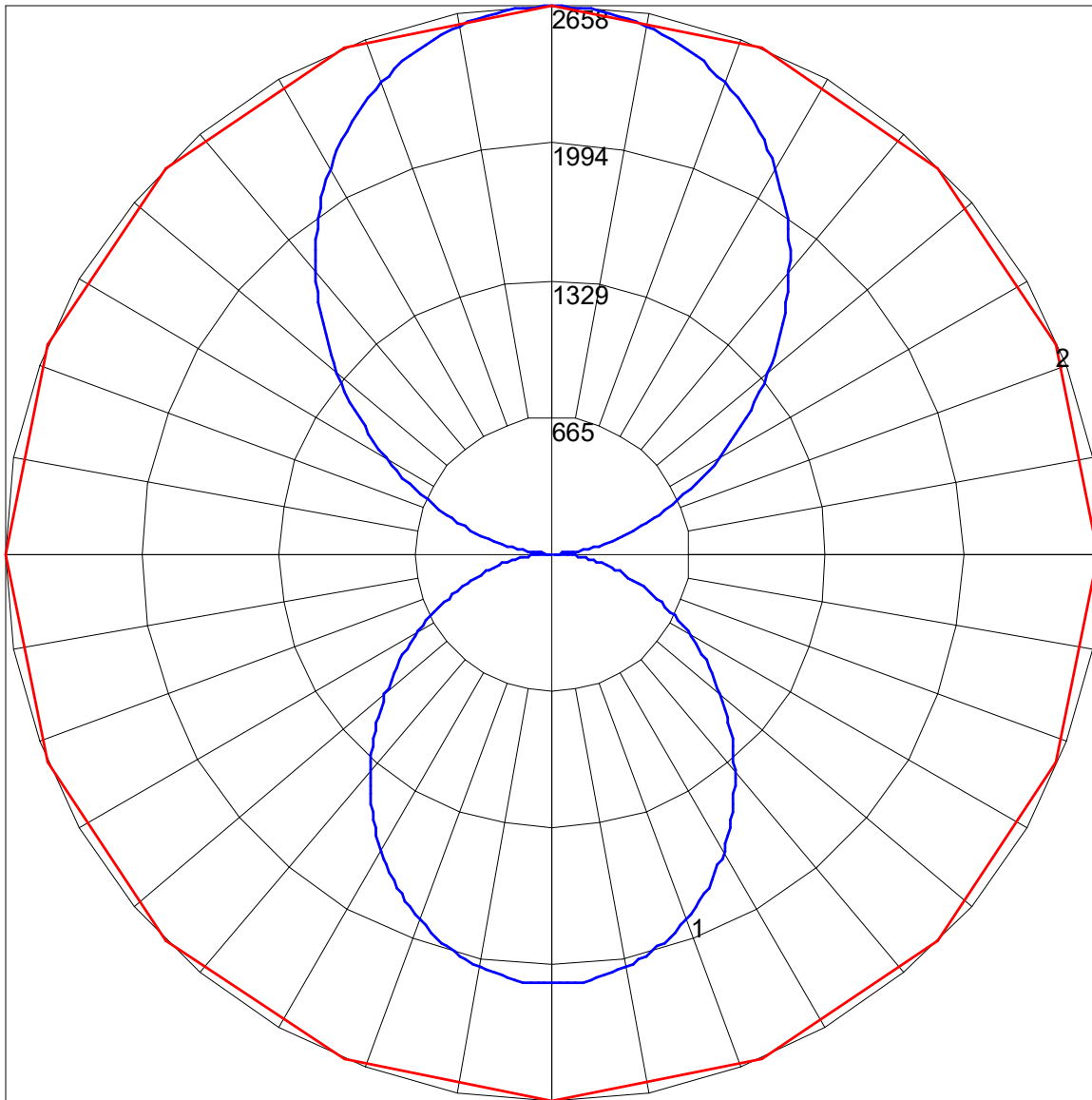
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.8	15.6	15.8	16.6	18.0	15.9	16.7	16.9	17.7	19.1
	3H	16.1	16.8	17.1	17.8	19.2	17.5	18.2	18.5	19.3	20.7
	4H	16.4	17.1	17.5	18.1	19.5	18.1	18.8	19.2	19.9	21.2
	6H	16.6	17.2	17.7	18.3	19.7	18.6	19.2	19.7	20.3	21.7
	8H	16.6	17.2	17.7	18.3	19.7	18.8	19.4	19.8	20.4	21.8
	12H	16.6	17.2	17.7	18.2	19.6	18.9	19.5	19.9	20.5	21.9
4H	2H	15.3	15.9	16.3	17.0	18.4	16.2	16.9	17.2	17.9	19.3
	3H	16.7	17.3	17.8	18.4	19.8	18.0	18.5	19.0	19.6	21.0
	4H	17.2	17.7	18.2	18.8	20.2	18.7	19.2	19.7	20.3	21.7
	6H	17.5	17.9	18.5	19.0	20.4	19.3	19.7	20.3	20.8	22.2
	8H	17.5	17.9	18.6	19.0	20.4	19.5	19.9	20.5	21.0	22.4
	12H	17.5	17.9	18.6	19.0	20.4	19.6	20.0	20.7	21.1	22.5
8H	4H	17.4	17.8	18.5	18.9	20.3	18.8	19.2	19.8	20.2	21.7
	6H	17.8	18.1	18.8	19.2	20.6	19.4	19.8	20.5	20.9	22.3
	8H	17.9	18.2	18.9	19.3	20.7	19.7	20.0	20.8	21.1	22.5
	12H	17.9	18.1	19.0	19.2	20.7	19.9	20.2	21.0	21.3	22.8
12H	4H	17.4	17.8	18.5	18.9	20.3	18.7	19.1	19.8	20.2	21.6
	6H	17.8	18.1	18.9	19.2	20.6	19.4	19.7	20.5	20.8	22.3
	8H	17.9	18.2	19.0	19.3	20.7	19.7	20.0	20.8	21.1	22.5

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 2658 Located At Horizontal Angle = 90, Vertical Angle = 179
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (179) (Through Max. Cd.)