

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV2-LED35-80-SO-4-SAL-TMW-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L112411502  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUE DATE] 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.  
[TEST PROCEDURE] IESNA:LM-79-19

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4214
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	34.4
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	13578	13610	13524
55	12507	12534	12321
65	11250	11304	11052
75	9554	9908	9790
85	6305	8581	9194

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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	1642.41	1642.41	1642.41	1642.41	1642.41	1642.41	1642.41	1642.41	1642.41
1	1641.64	1641.64	1641.64	1642.41	1643.18	1642.41	1641.64	1640.87	1640.87
2	1640.10	1640.87	1640.87	1641.64	1642.41	1640.87	1640.87	1639.33	1640.10
3	1637.79	1639.33	1638.56	1640.10	1640.10	1638.56	1638.56	1637.79	1637.79
4	1635.48	1636.25	1636.25	1637.79	1637.79	1635.48	1636.25	1634.71	1635.48
5	1630.86	1633.17	1632.40	1634.71	1633.94	1632.40	1632.40	1630.86	1631.63
6	1627.01	1629.32	1628.55	1630.86	1630.09	1627.78	1628.55	1626.24	1627.01
7	1621.62	1624.70	1623.16	1626.24	1624.70	1622.39	1623.16	1620.85	1622.39
8	1615.46	1618.54	1617.00	1620.85	1619.31	1615.46	1617.00	1613.92	1616.23
9	1608.53	1612.38	1610.84	1614.69	1612.38	1609.30	1610.84	1606.99	1609.30
10	1601.60	1604.68	1603.14	1607.76	1605.45	1601.60	1603.14	1599.29	1601.60
11	1593.13	1596.98	1595.44	1600.06	1597.75	1593.90	1595.44	1590.82	1593.90
12	1584.66	1587.74	1586.20	1591.59	1588.51	1584.66	1586.20	1581.58	1584.66
13	1574.65	1579.27	1577.73	1582.35	1579.27	1575.42	1576.19	1572.34	1575.42
14	1563.87	1568.49	1566.95	1572.34	1569.26	1564.64	1566.18	1560.79	1564.64
15	1552.32	1558.48	1555.40	1562.33	1557.71	1553.09	1555.40	1549.24	1553.09
16	1540.77	1546.16	1544.62	1550.78	1546.93	1541.54	1543.85	1537.69	1541.54
17	1527.68	1534.61	1531.53	1538.46	1533.84	1528.45	1531.53	1524.60	1528.45
18	1514.59	1520.75	1518.44	1526.14	1521.52	1515.36	1518.44	1511.51	1515.36
19	1500.73	1506.12	1504.58	1512.28	1507.66	1500.73	1504.58	1496.88	1499.96
20	1486.10	1493.03	1490.72	1498.42	1493.80	1486.87	1489.95	1483.02	1486.87
21	1470.70	1476.86	1475.32	1483.79	1477.63	1471.47	1475.32	1466.85	1469.93
22	1455.30	1462.23	1459.15	1468.39	1463.00	1455.30	1459.15	1451.45	1456.07
23	1439.13	1445.29	1442.98	1452.22	1446.06	1438.36	1442.98	1433.74	1438.36
24	1420.65	1429.89	1426.04	1435.28	1429.12	1421.42	1426.04	1416.03	1421.42
25	1404.48	1411.41	1409.10	1418.34	1411.41	1403.71	1409.10	1399.09	1403.71
26	1384.46	1394.47	1390.62	1399.86	1393.70	1385.23	1390.62	1380.61	1385.23
27	1367.52	1375.22	1372.14	1381.38	1374.45	1366.75	1372.14	1362.13	1366.75
28	1346.73	1355.97	1353.66	1361.36	1354.43	1347.50	1351.35	1342.11	1347.50
29	1329.02	1336.72	1333.64	1342.88	1334.41	1327.48	1333.64	1323.63	1328.25
30	1306.69	1316.70	1313.62	1321.32	1314.39	1306.69	1312.08	1302.07	1308.23
31	1286.67	1296.68	1292.06	1302.84	1293.60	1283.59	1293.60	1282.05	1287.44
32	1265.88	1275.89	1272.81	1279.74	1272.81	1264.34	1270.50	1261.26	1266.65
33	1244.32	1255.10	1248.94	1260.49	1250.48	1241.24	1250.48	1239.70	1245.86
34	1222.76	1233.54	1229.69	1236.62	1228.92	1221.22	1227.38	1217.37	1224.30
35	1201.20	1211.21	1205.82	1214.29	1206.59	1196.58	1205.82	1195.81	1201.97
36	1178.87	1189.65	1185.03	1191.96	1183.49	1175.79	1182.72	1173.48	1180.41
37	1156.54	1166.55	1160.39	1168.86	1158.85	1150.38	1160.39	1151.15	1155.77
38	1133.44	1144.99	1139.60	1145.76	1136.52	1128.82	1138.06	1128.05	1134.98
39	1110.34	1121.12	1114.19	1122.66	1111.88	1103.41	1114.19	1104.95	1110.34
40	1087.24	1098.02	1091.09	1099.56	1088.01	1080.31	1091.09	1080.31	1088.78
41	1064.14	1074.15	1067.22	1074.92	1063.37	1055.67	1067.22	1057.98	1063.37
42	1037.96	1051.05	1043.35	1051.05	1039.50	1031.80	1043.35	1033.34	1041.81
43	1016.40	1027.18	1019.48	1027.18	1014.86	1007.16	1019.48	1011.01	1016.40
44	990.99	1002.54	995.61	1001.77	988.68	982.52	994.07	985.60	992.53
45	968.66	979.44	970.97	978.67	964.81	957.88	970.97	962.50	968.66
46	942.48	954.03	946.33	952.49	938.63	933.24	946.33	937.09	944.02
47	920.92	930.93	922.46	927.85	914.76	907.83	922.46	913.99	920.15
48	893.97	905.52	897.82	901.67	888.58	883.19	897.05	888.58	895.51
49	869.33	882.42	873.18	877.80	863.94	857.01	873.18	863.17	871.64
50	845.46	857.01	848.54	851.62	837.76	833.91	847.77	840.07	847.00
51	821.59	832.37	824.67	826.98	813.89	806.96	823.13	814.66	823.13
52	796.95	807.73	800.03	801.57	787.71	783.09	798.49	791.56	798.49
53	772.31	782.32	773.85	775.39	762.30	756.91	773.08	765.38	773.85

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**CANDELA TABULATION - (Cont.)**

54	748.44	759.22	750.75	751.52	737.66	733.81	749.21	742.28	749.98
55	723.80	733.81	725.34	725.34	713.02	707.63	723.80	716.87	725.34
56	699.16	709.94	699.16	702.24	686.84	682.22	700.70	692.23	700.70
57	675.29	684.53	676.06	676.06	662.97	658.35	675.29	668.36	676.06
58	650.65	661.43	650.65	652.96	637.56	632.94	652.19	643.72	652.19
59	626.78	636.02	626.78	626.78	614.46	609.84	626.78	619.08	627.55
60	602.14	612.15	602.14	602.91	589.05	584.43	602.14	595.21	601.37
61	577.50	587.51	578.27	579.04	565.95	561.33	577.50	571.34	579.04
62	553.63	562.87	553.63	555.17	541.31	536.69	554.40	545.93	552.86
63	529.76	539.77	530.53	531.30	518.98	514.36	530.53	522.83	530.53
64	505.89	515.13	505.89	507.43	494.34	489.72	505.89	498.19	505.12
65	479.71	492.03	482.02	484.33	471.24	466.62	482.79	474.32	482.79
66	458.15	467.39	458.92	461.23	448.14	443.52	459.69	451.22	456.61
67	431.97	445.06	435.82	438.13	425.81	421.19	435.82	427.35	435.05
68	410.41	420.42	412.72	415.03	403.48	398.09	412.72	404.25	409.64
69	385.00	397.32	389.62	391.93	380.38	375.76	388.85	380.38	385.77
70	364.21	374.22	367.29	370.37	359.59	354.20	367.29	358.05	362.67
71	338.80	351.12	344.96	347.27	337.26	332.64	343.42	334.18	339.57
72	315.70	328.02	321.86	327.25	317.24	304.92	322.63	312.62	316.47
73	292.60	305.69	297.99	304.15	296.45	291.06	298.76	285.67	293.37
74	265.65	283.36	278.74	285.67	277.20	269.50	279.51	267.96	270.27
75	249.48	261.80	258.72	263.34	255.64	250.25	256.41	239.47	248.71
76	227.92	238.70	237.16	243.32	236.39	224.07	235.62	224.84	226.38
77	205.59	218.68	217.91	223.30	217.14	211.75	214.83	204.05	204.82
78	184.80	197.12	197.12	204.82	198.66	192.50	195.58	183.26	183.26
79	164.01	177.87	178.64	186.34	180.95	174.79	176.33	163.24	162.47
80	143.99	157.08	159.39	167.86	163.24	156.31	157.85	143.99	140.91
81	125.51	137.06	141.68	150.92	145.53	138.60	140.14	124.74	122.43
82	105.49	118.58	124.74	132.44	128.59	123.20	121.66	107.03	103.95
83	87.01	100.87	107.03	116.27	112.42	105.49	104.72	90.09	86.24
84	70.84	84.70	91.63	100.87	97.02	90.86	89.32	73.15	68.53
85	55.44	68.53	75.46	87.01	80.85	74.69	73.15	58.52	53.13
86	41.58	53.13	60.83	70.07	66.99	60.83	58.52	44.66	38.50
87	27.72	40.04	47.74	56.21	53.90	48.51	46.97	32.34	26.95
88	17.71	27.72	35.42	46.20	43.12	37.73	33.11	20.79	15.40
89	7.70	17.71	25.41	33.88	33.11	27.72	23.10	12.32	6.93
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	593.30	N.A.	14.10
0-30	1241.41	N.A.	29.50
0-40	1994.57	N.A.	47.30
0-60	3387.02	N.A.	80.40
0-80	4132.41	N.A.	98.10
0-90	4214.44	N.A.	100.00
10-90	4059.53	N.A.	96.30
20-40	1401.28	N.A.	33.20
20-50	2148.47	N.A.	51.00
40-70	1867.41	N.A.	44.30
60-80	745.39	N.A.	17.70
70-80	270.42	N.A.	6.40
80-90	82.04	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	4214.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	154.92
10-20	438.38
20-30	648.11
30-40	753.17
40-50	747.20
50-60	645.25
60-70	474.96
70-80	270.42
80-90	82.04
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

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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	20.8	22.4	21.2	22.7	23.1	20.6	22.2	21.0	22.6	22.9
	3H	22.5	24.0	22.9	24.3	24.7	22.4	23.8	22.7	24.1	24.5
	4H	23.1	24.5	23.5	24.9	25.2	23.0	24.4	23.4	24.7	25.1
	6H	23.6	24.8	24.0	25.2	25.6	23.5	24.8	23.9	25.2	25.6
	8H	23.7	24.9	24.1	25.3	25.7	23.7	24.9	24.2	25.3	25.7
	12H	23.8	24.9	24.2	25.3	25.7	23.9	25.0	24.3	25.4	25.8

UGR Viewed Endwise

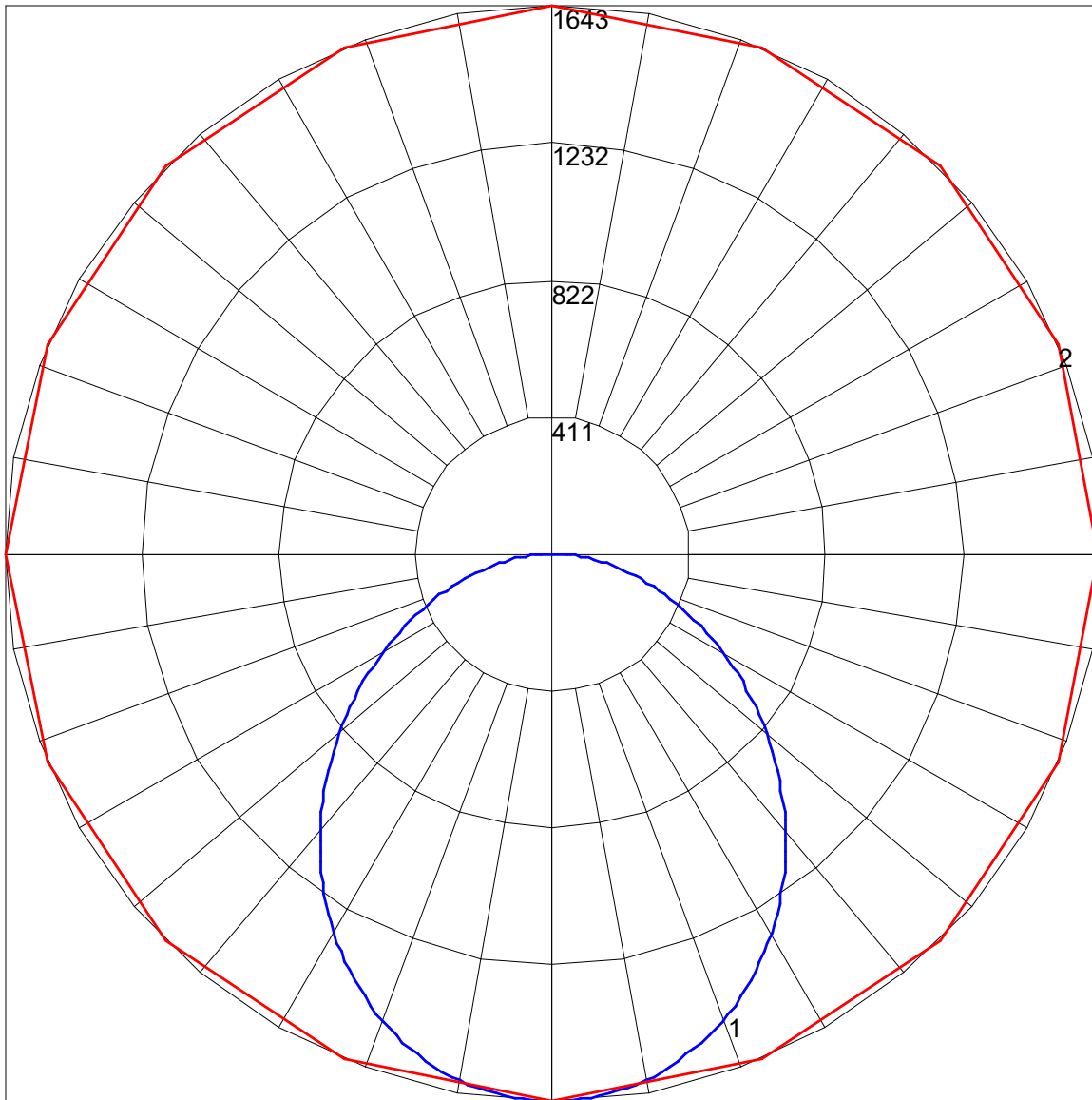
4H	2H	21.4	22.8	21.8	23.1	23.5	21.3	22.6	21.7	23.0	23.4
	3H	23.4	24.5	23.8	24.9	25.3	23.2	24.3	23.6	24.7	25.1
	4H	24.1	25.1	24.5	25.6	26.0	24.0	25.0	24.4	25.4	25.9
	6H	24.7	25.6	25.1	26.0	26.5	24.7	25.6	25.1	26.0	26.5
	8H	24.9	25.7	25.3	26.1	26.6	24.9	25.7	25.4	26.2	26.7
	12H	25.0	25.7	25.4	26.2	26.7	25.1	25.9	25.6	26.3	26.8

8H	4H	24.4	25.3	24.9	25.7	26.2	24.3	25.2	24.8	25.6	26.1
	6H	25.1	25.8	25.6	26.3	26.8	25.1	25.8	25.6	26.3	26.8
	8H	25.4	26.0	25.9	26.5	27.0	25.4	26.1	25.9	26.6	27.1
	12H	25.6	26.1	26.1	26.6	27.2	25.7	26.3	26.2	26.8	27.3

12H	4H	24.4	25.2	24.9	25.7	26.2	24.3	25.1	24.8	25.6	26.0
	6H	25.2	25.8	25.7	26.3	26.8	25.2	25.8	25.7	26.3	26.8
	8H	25.5	26.1	26.0	26.6	27.1	25.6	26.1	26.1	26.6	27.2

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 1643.18 Located At Horizontal Angle = 90, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)