

IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV2-LED35-80-LO-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-LO-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	1751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	14
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	5643	5656	5620
55	5198	5209	5120
65	4675	4698	4593
75	3970	4117	4068
85	2620	3566	3821

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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	682.56	682.56	682.56	682.56	682.56	682.56	682.56	682.56	682.56
1	682.24	682.24	682.24	682.56	682.88	682.56	682.24	681.92	681.92
2	681.60	681.92	681.92	682.24	682.56	681.92	681.92	681.28	681.60
3	680.64	681.28	680.96	681.60	681.60	680.96	680.96	680.64	680.64
4	679.68	680.00	680.00	680.64	680.64	679.68	680.00	679.36	679.68
5	677.76	678.72	678.40	679.36	679.04	678.40	678.40	677.76	678.08
6	676.16	677.12	676.80	677.76	677.44	676.48	676.80	675.84	676.16
7	673.92	675.20	674.56	675.84	675.20	674.24	674.56	673.60	674.24
8	671.36	672.64	672.00	673.60	672.96	671.36	672.00	670.72	671.68
9	668.48	670.08	669.44	671.04	670.08	668.80	669.44	667.84	668.80
10	665.60	666.88	666.24	668.16	667.20	665.60	666.24	664.64	665.60
11	662.08	663.68	663.04	664.96	664.00	662.40	663.04	661.12	662.40
12	658.56	659.84	659.20	661.44	660.16	658.56	659.20	657.28	658.56
13	654.40	656.32	655.68	657.60	656.32	654.72	655.04	653.44	654.72
14	649.92	651.84	651.20	653.44	652.16	650.24	650.88	648.64	650.24
15	645.12	647.68	646.40	649.28	647.36	645.44	646.40	643.84	645.44
16	640.32	642.56	641.92	644.48	642.88	640.64	641.60	639.04	640.64
17	634.88	637.76	636.48	639.36	637.44	635.20	636.48	633.60	635.20
18	629.44	632.00	631.04	634.24	632.32	629.76	631.04	628.16	629.76
19	623.68	625.92	625.28	628.48	626.56	623.68	625.28	622.08	623.36
20	617.60	620.48	619.52	622.72	620.80	617.92	619.20	616.32	617.92
21	611.20	613.76	613.12	616.64	614.08	611.52	613.12	609.60	610.88
22	604.80	607.68	606.40	610.24	608.00	604.80	606.40	603.20	605.12
23	598.08	600.64	599.68	603.52	600.96	597.76	599.68	595.84	597.76
24	590.40	594.24	592.64	596.48	593.92	590.72	592.64	588.48	590.72
25	583.68	586.56	585.60	589.44	586.56	583.36	585.60	581.44	583.36
26	575.36	579.52	577.92	581.76	579.20	575.68	577.92	573.76	575.68
27	568.32	571.52	570.24	574.08	571.20	568.00	570.24	566.08	568.00
28	559.68	563.52	562.56	565.76	562.88	560.00	561.60	557.76	560.00
29	552.32	555.52	554.24	558.08	554.56	551.68	554.24	550.08	552.00
30	543.04	547.20	545.92	549.12	546.24	543.04	545.28	541.12	543.68
31	534.72	538.88	536.96	541.44	537.60	533.44	537.60	532.80	535.04
32	526.08	530.24	528.96	531.84	528.96	525.44	528.00	524.16	526.40
33	517.12	521.60	519.04	523.84	519.68	515.84	519.68	515.20	517.76
34	508.16	512.64	511.04	513.92	510.72	507.52	510.08	505.92	508.80
35	499.20	503.36	501.12	504.64	501.44	497.28	501.12	496.96	499.52
36	489.92	494.40	492.48	495.36	491.84	488.64	491.52	487.68	490.56
37	480.64	484.80	482.24	485.76	481.60	478.08	482.24	478.40	480.32
38	471.04	475.84	473.60	476.16	472.32	469.12	472.96	468.80	471.68
39	461.44	465.92	463.04	466.56	462.08	458.56	463.04	459.20	461.44
40	451.84	456.32	453.44	456.96	452.16	448.96	453.44	448.96	452.48
41	442.24	446.40	443.52	446.72	441.92	438.72	443.52	439.68	441.92
42	431.36	436.80	433.60	436.80	432.00	428.80	433.60	429.44	432.96
43	422.40	426.88	423.68	426.88	421.76	418.56	423.68	420.16	422.40
44	411.84	416.64	413.76	416.32	410.88	408.32	413.12	409.60	412.48
45	402.56	407.04	403.52	406.72	400.96	398.08	403.52	400.00	402.56
46	391.68	396.48	393.28	395.84	390.08	387.84	393.28	389.44	392.32
47	382.72	386.88	383.36	385.60	380.16	377.28	383.36	379.84	382.40
48	371.52	376.32	373.12	374.72	369.28	367.04	372.80	369.28	372.16
49	361.28	366.72	362.88	364.80	359.04	356.16	362.88	358.72	362.24
50	351.36	356.16	352.64	353.92	348.16	346.56	352.32	349.12	352.00
51	341.44	345.92	342.72	343.68	338.24	335.36	342.08	338.56	342.08
52	331.20	335.68	332.48	333.12	327.36	325.44	331.84	328.96	331.84
53	320.96	325.12	321.60	322.24	316.80	314.56	321.28	318.08	321.60

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54	311.04	315.52	312.00	312.32	306.56	304.96	311.36	308.48	311.68
55	300.80	304.96	301.44	301.44	296.32	294.08	300.80	297.92	301.44
56	290.56	295.04	290.56	291.84	285.44	283.52	291.20	287.68	291.20
57	280.64	284.48	280.96	280.96	275.52	273.60	280.64	277.76	280.96
58	270.40	274.88	270.40	271.36	264.96	263.04	271.04	267.52	271.04
59	260.48	264.32	260.48	260.48	255.36	253.44	260.48	257.28	260.80
60	250.24	254.40	250.24	250.56	244.80	242.88	250.24	247.36	249.92
61	240.00	244.16	240.32	240.64	235.20	233.28	240.00	237.44	240.64
62	230.08	233.92	230.08	230.72	224.96	223.04	230.40	226.88	229.76
63	220.16	224.32	220.48	220.80	215.68	213.76	220.48	217.28	220.48
64	210.24	214.08	210.24	210.88	205.44	203.52	210.24	207.04	209.92
65	199.36	204.48	200.32	201.28	195.84	193.92	200.64	197.12	200.64
66	190.40	194.24	190.72	191.68	186.24	184.32	191.04	187.52	189.76
67	179.52	184.96	181.12	182.08	176.96	175.04	181.12	177.60	180.80
68	170.56	174.72	171.52	172.48	167.68	165.44	171.52	168.00	170.24
69	160.00	165.12	161.92	162.88	158.08	156.16	161.60	158.08	160.32
70	151.36	155.52	152.64	153.92	149.44	147.20	152.64	148.80	150.72
71	140.80	145.92	143.36	144.32	140.16	138.24	142.72	138.88	141.12
72	131.20	136.32	133.76	136.00	131.84	126.72	134.08	129.92	131.52
73	121.60	127.04	123.84	126.40	123.20	120.96	124.16	118.72	121.92
74	110.40	117.76	115.84	118.72	115.20	112.00	116.16	111.36	112.32
75	103.68	108.80	107.52	109.44	106.24	104.00	106.56	99.52	103.36
76	94.72	99.20	98.56	101.12	98.24	93.12	97.92	93.44	94.08
77	85.44	90.88	90.56	92.80	90.24	88.00	89.28	84.80	85.12
78	76.80	81.92	81.92	85.12	82.56	80.00	81.28	76.16	76.16
79	68.16	73.92	74.24	77.44	75.20	72.64	73.28	67.84	67.52
80	59.84	65.28	66.24	69.76	67.84	64.96	65.60	59.84	58.56
81	52.16	56.96	58.88	62.72	60.48	57.60	58.24	51.84	50.88
82	43.84	49.28	51.84	55.04	53.44	51.20	50.56	44.48	43.20
83	36.16	41.92	44.48	48.32	46.72	43.84	43.52	37.44	35.84
84	29.44	35.20	38.08	41.92	40.32	37.76	37.12	30.40	28.48
85	23.04	28.48	31.36	36.16	33.60	31.04	30.40	24.32	22.08
86	17.28	22.08	25.28	29.12	27.84	25.28	24.32	18.56	16.00
87	11.52	16.64	19.84	23.36	22.40	20.16	19.52	13.44	11.20
88	7.36	11.52	14.72	19.20	17.92	15.68	13.76	8.64	6.40
89	3.20	7.36	10.56	14.08	13.76	11.52	9.60	5.12	2.88
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	246.57	N.A.	14.10
0-30	515.91	N.A.	29.50
0-40	828.91	N.A.	47.30
0-60	1407.59	N.A.	80.40
0-80	1717.36	N.A.	98.10
0-90	1751.46	N.A.	100.00
10-90	1687.08	N.A.	96.30
20-40	582.35	N.A.	33.20
20-50	892.87	N.A.	51.00
40-70	776.07	N.A.	44.30
60-80	309.77	N.A.	17.70
70-80	112.38	N.A.	6.40
80-90	34.09	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	1751.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.38
10-20	182.18
20-30	269.34
30-40	313.00
40-50	310.52
50-60	268.16
60-70	197.39
70-80	112.38
80-90	34.09
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

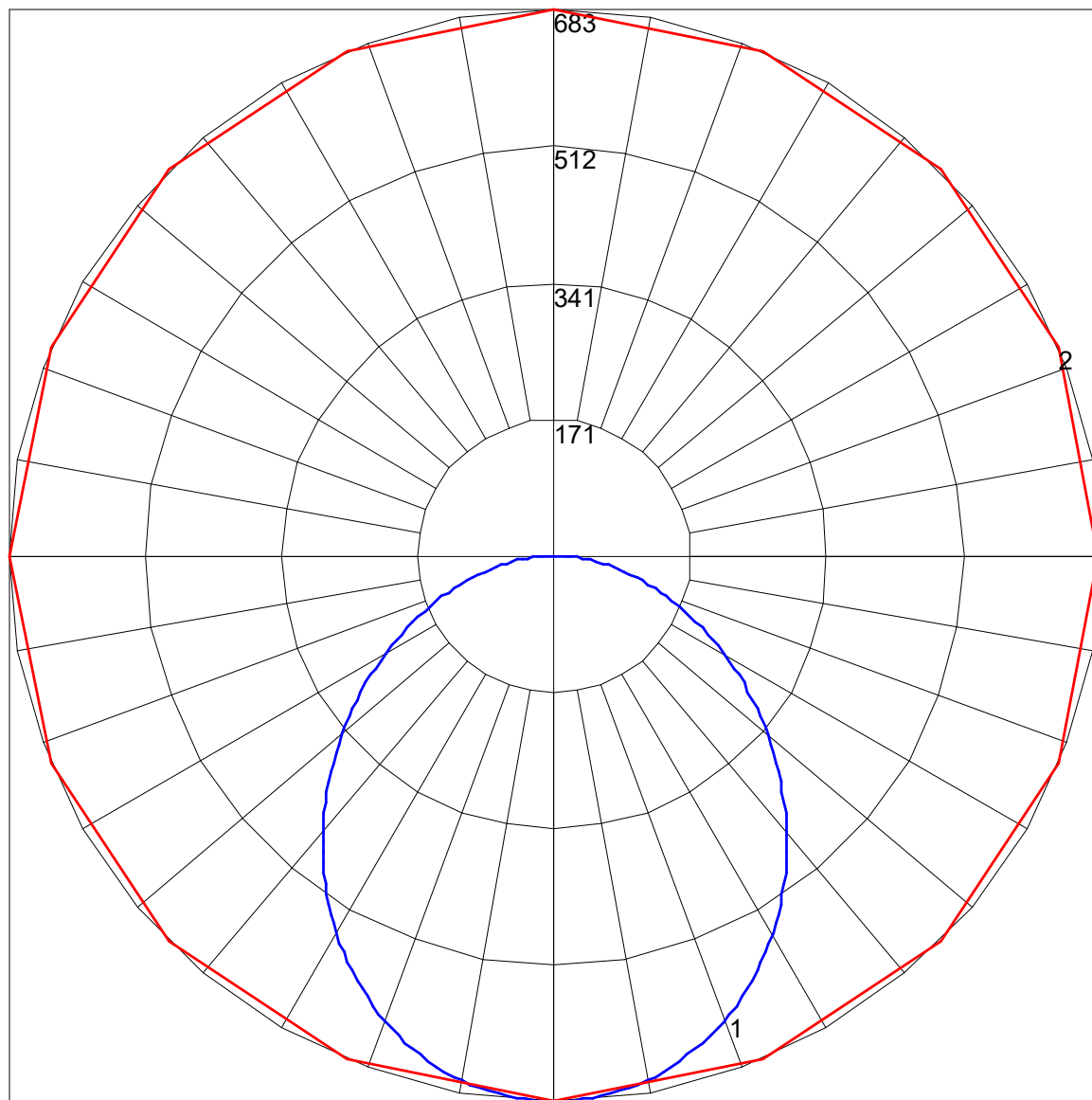
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.8	19.4	18.2	19.7	20.1	17.6	19.2	18.0	19.6	19.9
	3H	19.5	21.0	19.9	21.3	21.7	19.3	20.8	19.7	21.1	21.5
	4H	20.1	21.5	20.5	21.9	22.2	20.0	21.4	20.4	21.7	22.1
	6H	20.6	21.8	21.0	22.2	22.6	20.5	21.8	20.9	22.2	22.6
	8H	20.7	21.9	21.1	22.3	22.7	20.7	21.9	21.2	22.3	22.7
	12H	20.8	21.9	21.2	22.3	22.7	20.9	22.0	21.3	22.4	22.8
4H	2H	18.4	19.8	18.8	20.1	20.5	18.3	19.6	18.7	20.0	20.4
	3H	20.3	21.5	20.8	21.9	22.3	20.2	21.3	20.6	21.7	22.1
	4H	21.1	22.1	21.5	22.6	23.0	21.0	22.0	21.4	22.4	22.9
	6H	21.7	22.6	22.1	23.0	23.5	21.7	22.6	22.1	23.0	23.5
	8H	21.9	22.7	22.3	23.1	23.6	21.9	22.7	22.4	23.2	23.7
	12H	22.0	22.7	22.4	23.2	23.7	22.1	22.9	22.6	23.3	23.8
8H	4H	21.4	22.3	21.9	22.7	23.2	21.3	22.2	21.8	22.6	23.1
	6H	22.1	22.8	22.6	23.3	23.8	22.1	22.8	22.6	23.3	23.8
	8H	22.4	23.0	22.9	23.5	24.0	22.4	23.1	22.9	23.6	24.1
	12H	22.6	23.1	23.1	23.6	24.2	22.7	23.3	23.2	23.8	24.3
12H	4H	21.4	22.2	21.9	22.7	23.2	21.3	22.1	21.8	22.6	23.0
	6H	22.2	22.8	22.7	23.3	23.8	22.2	22.8	22.7	23.3	23.8
	8H	22.5	23.1	23.0	23.5	24.1	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 682.88 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.)