

IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV2-LED35-MO-4-SAL-D9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L112411503
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 12/2/2024
[MANUFAC] PRUDENTIAL LIGHTING
[LUMCAT] WV2-LED35-80-MO-4'-SAL-D9
[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	2991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
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	8031	7766	7440
55	7297	6989	6606
65	6497	6205	5914
75	5418	5480	5397
85	3316	5527	6632

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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	1003.32	1003.32	1003.32	1003.32	1003.32	1003.32	1003.32	1003.32	1003.32
1	1001.70	1002.78	1002.78	1003.86	1003.32	1003.32	1002.78	1002.24	1002.24
2	1001.16	1002.24	1001.70	1002.78	1002.24	1002.24	1002.24	1001.16	1001.16
3	1000.08	1000.62	1000.62	1001.70	1001.16	1000.62	1000.62	1000.08	1000.08
4	997.92	999.00	998.46	1000.08	999.00	998.46	999.00	997.92	998.46
5	995.76	996.84	996.30	997.38	996.30	995.76	996.30	995.22	995.76
6	993.06	994.14	993.06	994.68	993.06	992.52	993.60	992.52	993.06
7	989.28	990.90	989.28	990.90	989.28	988.20	989.82	988.20	989.82
8	984.96	987.12	985.50	987.12	984.96	983.88	986.04	984.42	986.04
9	981.18	982.80	980.64	982.26	980.10	979.02	981.18	980.10	981.72
10	975.78	977.94	975.24	977.40	973.62	973.08	975.78	974.70	976.86
11	970.92	972.54	969.84	970.92	968.22	966.60	970.38	969.30	971.46
12	964.44	966.60	963.36	964.44	960.66	960.12	963.90	963.36	964.98
13	958.50	960.12	956.88	957.96	954.18	953.10	957.42	956.34	959.04
14	951.48	953.64	949.32	949.86	945.54	945.00	950.40	949.32	951.48
15	943.92	946.62	940.68	942.30	937.44	936.36	942.84	941.76	945.54
16	936.36	938.52	933.66	933.66	928.80	927.72	934.20	933.66	936.90
17	927.72	930.42	923.94	925.02	919.62	918.54	925.56	925.02	929.34
18	919.08	921.78	915.84	915.30	909.90	908.82	916.92	916.38	920.16
19	910.44	912.60	905.58	905.58	899.64	898.56	906.66	907.20	911.52
20	900.72	902.88	896.40	895.32	888.84	888.30	897.48	897.48	901.80
21	890.46	893.16	884.52	884.52	877.50	876.96	886.14	887.22	892.08
22	880.74	882.90	874.80	873.18	866.16	865.62	876.42	876.96	881.82
23	869.94	872.10	862.92	861.30	854.28	853.74	864.00	866.16	871.02
24	859.14	861.30	851.04	849.42	841.86	840.78	853.20	854.28	860.22
25	847.80	849.96	839.16	837.00	828.90	828.90	840.24	842.94	848.88
26	835.92	838.08	826.74	824.04	815.94	815.40	829.44	830.52	837.54
27	824.58	826.20	814.32	811.08	802.44	802.98	815.94	819.18	825.66
28	812.16	813.24	801.36	797.04	788.40	788.40	802.98	806.22	812.16
29	799.74	801.36	787.86	784.08	774.90	775.44	789.48	793.80	800.82
30	785.70	787.86	774.36	769.50	759.78	760.86	775.98	780.30	787.32
31	773.82	774.90	760.86	756.00	746.28	746.28	762.48	767.34	775.44
32	759.24	761.40	746.82	740.88	730.08	731.70	748.44	753.84	760.86
33	745.74	747.36	732.78	726.84	716.04	716.58	734.40	739.26	748.44
34	732.24	733.86	718.74	711.72	700.38	702.54	720.36	725.76	733.86
35	718.20	719.28	704.16	696.06	685.26	686.88	705.78	711.18	719.82
36	704.16	705.78	689.58	681.48	669.60	672.30	691.20	697.68	705.78
37	690.12	690.66	674.46	665.82	654.48	656.10	676.62	682.56	691.74
38	675.54	677.16	659.88	651.24	638.82	641.52	662.04	669.06	677.70
39	661.50	662.04	644.76	635.58	623.70	625.86	646.92	653.40	663.12
40	646.92	648.00	628.56	620.46	608.04	610.20	631.80	638.82	648.54
41	631.80	632.34	614.52	604.80	592.38	595.08	617.22	624.24	633.96
42	617.22	618.30	598.32	589.68	576.72	579.42	602.10	609.12	619.38
43	602.64	602.64	584.82	573.48	561.60	564.30	586.44	594.00	604.26
44	588.06	586.98	568.08	558.36	545.94	549.18	570.24	578.34	589.14
45	572.94	572.94	554.04	543.24	530.82	533.52	555.66	564.30	574.56
46	557.82	557.28	537.84	527.04	515.70	518.40	540.00	548.64	559.44
47	543.24	542.70	524.34	512.46	500.58	503.28	525.42	534.60	544.86
48	528.12	527.04	507.60	496.80	485.46	488.16	509.76	518.94	529.74
49	511.92	513.00	492.48	482.22	469.80	472.50	494.64	503.82	514.62
50	497.88	497.34	477.90	467.10	455.76	457.92	480.06	488.70	500.04
51	481.68	482.22	462.78	452.52	440.10	443.34	464.94	473.58	484.92
52	468.18	467.64	448.20	437.94	426.60	428.76	450.36	459.00	469.80
53	451.98	452.52	433.62	423.36	410.94	414.18	435.78	443.88	453.60

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CANDELA TABULATION - (Cont.)

54	438.48	437.40	419.04	408.78	397.98	400.14	421.20	429.30	440.10
55	422.28	422.82	404.46	394.74	382.32	386.10	406.62	414.18	423.90
56	407.70	408.24	389.88	380.16	369.36	371.52	392.04	399.06	410.40
57	392.58	393.12	375.84	366.66	355.32	358.02	377.46	385.02	394.20
58	378.00	378.54	360.72	352.62	342.36	343.98	363.42	369.90	381.24
59	363.42	364.50	347.76	338.58	328.32	331.02	349.38	356.40	365.58
60	348.84	349.38	333.18	325.08	315.36	316.98	334.26	341.28	351.00
61	334.26	335.34	319.68	311.58	302.40	304.56	321.30	327.24	336.42
62	319.68	320.76	304.56	298.62	289.44	291.06	306.72	312.66	321.84
63	305.64	306.72	292.68	285.66	277.02	278.10	294.30	299.16	307.26
64	291.06	292.14	278.10	273.24	264.60	265.68	279.72	284.58	293.22
65	277.02	278.10	264.60	260.28	252.18	252.18	267.84	270.00	278.64
66	262.98	264.60	251.64	247.86	240.30	240.84	253.26	256.50	264.60
67	248.94	250.56	238.68	235.98	228.42	227.88	241.92	242.46	250.56
68	234.90	237.06	226.26	223.56	216.54	216.54	227.88	229.50	236.52
69	220.86	223.02	213.30	211.68	205.20	204.12	214.92	215.46	223.02
70	207.36	210.06	200.88	200.34	193.86	192.24	202.50	202.50	208.98
71	193.32	196.02	187.92	188.46	183.06	181.98	190.62	186.30	195.48
72	179.82	183.60	176.04	177.66	172.26	171.72	178.20	176.58	181.98
73	167.40	170.10	165.78	166.32	162.00	160.38	166.32	164.16	168.48
74	153.36	158.22	154.44	156.06	151.20	149.58	154.98	151.74	155.52
75	141.48	145.26	143.10	144.72	140.94	139.32	143.64	139.32	141.48
76	127.44	132.30	131.76	133.92	130.68	129.06	132.30	126.90	128.52
77	115.56	120.96	120.96	124.74	121.50	119.34	121.50	115.02	116.10
78	102.60	108.54	110.16	114.48	111.78	109.08	111.24	103.68	103.68
79	91.80	97.74	99.90	105.30	103.68	100.44	100.98	92.34	91.80
80	78.84	86.40	90.18	96.12	94.50	91.26	90.72	81.54	80.46
81	68.58	76.14	80.46	88.02	86.94	83.16	81.00	71.28	69.66
82	57.24	65.88	71.82	79.92	78.84	75.60	72.36	61.02	58.86
83	47.52	56.16	63.18	71.82	71.82	68.04	64.26	51.30	48.06
84	37.80	48.06	55.62	64.80	65.34	61.02	55.62	42.66	38.88
85	29.16	38.34	48.60	57.78	58.32	54.54	49.14	34.56	29.16
86	21.60	30.78	42.12	51.30	52.38	48.60	42.66	27.54	21.60
87	14.58	24.30	36.18	45.36	47.52	42.66	35.64	21.60	14.58
88	8.64	18.36	30.24	39.96	41.04	37.26	30.24	16.20	8.10
89	3.78	14.04	25.38	34.56	35.64	31.86	24.84	11.88	3.24
90	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
91	0.54	0.54	1.08	1.08	1.08	0.54	0.54	0.54	1.08
92	2.16	1.08	1.08	1.08	1.08	1.08	1.08	1.08	2.16
93	4.32	1.62	1.62	1.62	1.08	1.08	1.08	1.08	4.86
94	7.02	2.70	1.62	1.62	1.62	1.62	1.62	1.62	7.56
95	9.72	6.48	2.16	2.16	2.16	2.16	2.16	3.78	10.26
96	12.96	10.80	2.70	2.70	2.70	2.70	2.70	7.02	12.96
97	16.20	16.74	3.24	3.24	2.70	2.70	3.24	12.42	16.20
98	19.44	21.60	5.40	3.78	3.24	3.24	4.86	18.36	19.44
99	22.68	26.46	9.72	4.32	3.78	3.78	8.64	24.30	22.68
100	25.38	31.86	14.04	5.94	4.86	4.86	12.96	29.16	25.38
101	28.62	36.18	18.90	10.80	5.94	7.56	17.28	34.02	29.16
102	31.86	39.42	24.84	14.58	9.72	11.34	23.76	38.34	31.86
103	35.10	42.66	31.86	19.44	14.58	15.66	30.78	42.12	35.64
104	38.34	46.44	37.80	24.30	18.90	19.98	37.26	44.82	38.34
105	41.58	49.14	43.74	31.32	23.76	25.92	43.20	47.52	42.12
106	44.82	51.84	49.14	38.34	29.70	32.40	49.68	50.22	45.36
107	47.52	54.54	54.54	44.82	36.18	39.96	54.54	53.46	48.06
108	50.76	57.78	59.94	50.76	43.20	46.44	60.48	56.70	51.30
109	53.46	61.56	64.80	56.70	49.68	52.38	65.34	59.94	54.00

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CANDELA TABULATION - (Cont.)

110	56.70	65.34	69.66	62.10	55.62	58.86	70.20	64.26	57.24
111	59.40	69.66	73.44	67.50	61.56	64.26	73.98	68.04	59.94
112	62.64	72.90	76.14	72.36	66.96	69.66	77.22	71.82	63.18
113	64.80	76.14	79.38	77.76	72.36	74.52	80.46	75.60	65.88
114	68.04	79.38	82.62	82.08	77.22	79.38	83.70	78.84	68.58
115	70.74	82.62	85.32	86.94	82.08	83.70	85.32	82.08	71.28
116	73.44	85.32	86.94	90.72	86.40	88.56	86.94	85.32	73.98
117	76.14	88.02	89.10	93.42	91.26	92.34	89.10	87.48	76.68
118	78.84	90.18	91.26	96.12	95.04	95.04	91.80	90.18	79.38
119	81.54	92.88	93.96	99.36	98.28	97.74	93.96	92.34	82.08
120	84.24	95.04	95.58	102.06	100.98	100.44	96.12	94.50	84.78
121	86.94	97.20	98.28	103.68	103.68	102.60	98.82	96.66	87.48
122	89.64	99.36	100.98	105.30	106.38	104.22	102.06	98.28	90.18
123	91.80	100.98	104.76	106.92	108.00	105.84	104.76	100.44	92.88
124	94.50	103.14	108.00	108.54	109.08	107.46	108.54	102.06	95.04
125	97.20	104.76	111.24	110.70	110.70	109.08	111.78	103.68	97.74
126	99.90	106.92	113.94	112.32	112.32	111.24	114.48	105.84	100.44
127	102.06	108.54	116.64	113.94	113.94	112.86	117.72	107.46	102.60
128	104.76	110.16	119.34	116.64	116.10	115.02	120.42	109.62	104.76
129	106.92	112.32	122.04	118.80	117.18	117.18	123.12	111.24	107.46
130	109.62	113.94	124.74	122.04	119.34	120.42	125.82	113.40	109.62
131	111.24	116.10	126.90	124.74	122.04	122.58	127.98	115.02	111.78
132	113.94	117.72	129.06	127.98	124.74	126.36	130.14	117.18	113.94
133	116.10	119.88	130.68	130.68	127.44	129.06	131.76	118.80	116.64
134	118.26	121.50	132.30	132.84	130.14	131.76	133.38	120.96	118.80
135	120.42	123.66	133.92	135.54	133.38	134.46	135.00	122.58	120.42
136	122.04	125.82	135.54	138.24	135.54	137.16	136.62	124.74	122.58
137	124.74	127.44	137.16	140.40	138.24	139.32	137.70	126.90	124.74
138	126.36	129.60	138.78	142.56	140.94	142.02	139.32	128.52	126.90
139	128.52	131.22	139.86	144.72	143.10	143.64	140.40	130.68	129.06
140	130.14	133.38	140.94	145.80	145.26	145.26	141.48	132.30	130.68
141	132.30	135.00	142.02	147.42	147.42	146.88	142.02	134.46	132.84
142	133.92	136.62	143.10	148.50	149.04	147.96	143.10	136.08	134.46
143	136.08	138.78	144.18	149.58	150.12	149.58	144.18	137.70	136.08
144	137.70	140.40	144.72	150.66	151.20	150.66	145.26	139.86	138.24
145	139.32	142.02	145.80	151.74	152.28	151.74	146.34	141.48	139.86
146	140.94	143.64	147.42	152.82	153.36	152.28	147.42	143.10	141.48
147	142.56	145.26	147.96	153.36	154.44	153.36	148.50	144.72	143.10
148	144.18	146.88	149.04	153.90	155.52	153.90	149.58	146.34	144.72
149	145.80	147.96	150.12	154.44	156.06	154.44	150.66	147.42	146.34
150	147.42	149.58	151.20	155.52	156.60	154.98	151.74	149.04	147.96
151	149.04	150.66	152.28	156.06	157.14	155.52	152.82	150.66	149.04
152	150.12	152.28	153.90	156.60	157.68	156.06	153.90	151.74	150.66
153	151.74	153.36	154.98	157.14	158.22	157.14	154.98	152.82	151.74
154	152.82	154.44	156.06	158.22	158.76	157.68	156.06	153.90	153.36
155	153.90	155.52	157.14	158.76	159.30	158.76	157.14	154.98	154.44
156	155.52	156.60	158.22	159.84	159.84	159.30	158.22	156.06	155.52
157	156.60	157.68	159.30	160.38	160.92	159.84	159.30	157.14	156.60
158	157.68	158.22	160.38	161.46	161.46	160.92	160.38	158.22	157.68
159	158.76	159.30	160.92	162.00	162.00	162.00	161.46	158.76	158.76
160	159.84	159.84	162.00	163.08	163.08	162.54	162.54	159.84	159.84
161	160.38	160.92	163.08	164.16	163.62	163.62	163.08	160.38	160.92
162	161.46	161.46	163.62	164.70	164.70	164.16	164.16	161.46	161.46
163	162.54	162.54	164.16	165.24	165.24	165.24	164.70	162.00	162.54
164	163.08	163.08	165.24	166.32	165.78	165.78	165.24	163.08	163.08
165	164.16	163.62	165.24	166.86	166.32	166.32	165.78	163.62	164.16

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CANDELA TABULATION - (Cont.)

166	164.70	164.16	165.78	167.40	166.86	166.86	165.78	164.16	164.70
167	165.24	165.24	166.32	167.40	167.40	167.40	166.32	164.70	165.24
168	165.78	165.78	166.32	167.94	167.94	167.94	166.32	165.24	165.78
169	166.32	166.32	166.86	167.94	167.94	167.94	166.86	165.78	166.86
170	166.86	166.86	166.86	167.94	168.48	167.94	166.86	166.32	166.86
171	167.40	166.86	166.86	167.94	167.94	167.94	167.40	166.86	167.40
172	167.94	167.40	167.40	167.94	167.94	167.94	167.40	167.40	167.94
173	167.94	167.94	167.94	167.94	167.94	167.94	167.94	167.94	168.48
174	168.48	168.48	167.94	167.94	167.94	167.94	167.94	168.48	168.48
175	168.48	168.48	168.48	168.48	168.48	168.48	168.48	168.48	169.02
176	169.02	169.02	168.48	168.48	168.48	168.48	169.02	169.02	169.02
177	169.02	169.02	169.02	169.02	169.02	169.02	169.02	169.02	169.56
178	169.56	169.56	169.02	169.02	169.02	169.02	169.56	169.56	169.56
179	169.56	169.56	169.56	169.56	169.56	169.56	169.56	169.56	169.56
180	169.56	169.56	169.56	169.56	169.56	169.56	169.56	169.56	169.56

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	359.58	N.A.	12.00
0-30	745.74	N.A.	24.90
0-40	1185.53	N.A.	39.60
0-60	1974.31	N.A.	66.00
0-80	2388.5	N.A.	79.90
0-90	2440.79	N.A.	81.60
10-90	2346.34	N.A.	78.40
20-40	825.95	N.A.	27.60
20-50	1252.86	N.A.	41.90
40-70	1052.07	N.A.	35.20
60-80	414.19	N.A.	13.80
70-80	150.91	N.A.	5.00
80-90	52.29	N.A.	1.70
90-110	46.70	N.A.	1.60
90-120	127.21	N.A.	4.30
90-130	223.35	N.A.	7.50
90-150	415.16	N.A.	13.90
90-180	550.37	N.A.	18.40
110-180	503.67	N.A.	16.80
0-180	2991.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.44
10-20	265.13
20-30	386.16
30-40	439.79
40-50	426.91
50-60	361.87
60-70	263.28
70-80	150.91
80-90	52.29
90-100	5.92
100-110	40.79
110-120	80.51
120-130	96.14
130-140	100.15
140-150	91.65
150-160	72.50
160-170	46.67
170-180	16.04

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WV2-LED35-MO-4-SAL-D9.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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	105	100	96	93	100	96	93	89	89	86	83	82	80	77	75	74	72	69
2	96	88	81	76	91	84	79	74	78	73	69	72	68	65	67	64	61	58
3	87	78	70	64	84	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	54	77	66	59	53	62	55	50	57	52	48	53	49	45	42
5	74	62	53	47	71	60	52	46	55	49	44	52	46	42	48	43	40	37
6	68	56	47	41	65	54	46	40	50	43	38	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	56	45	37	32	42	35	31	39	34	29	37	32	28	26
9	55	42	35	29	53	41	34	29	39	32	28	36	31	27	34	29	25	24
10	52	39	32	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

IES INDOOR REPORT
PHOTOMETRIC FILENAME : WV2-LED35-MO-4-SAL-D9.IES

UGR TABLE - CORRECTED

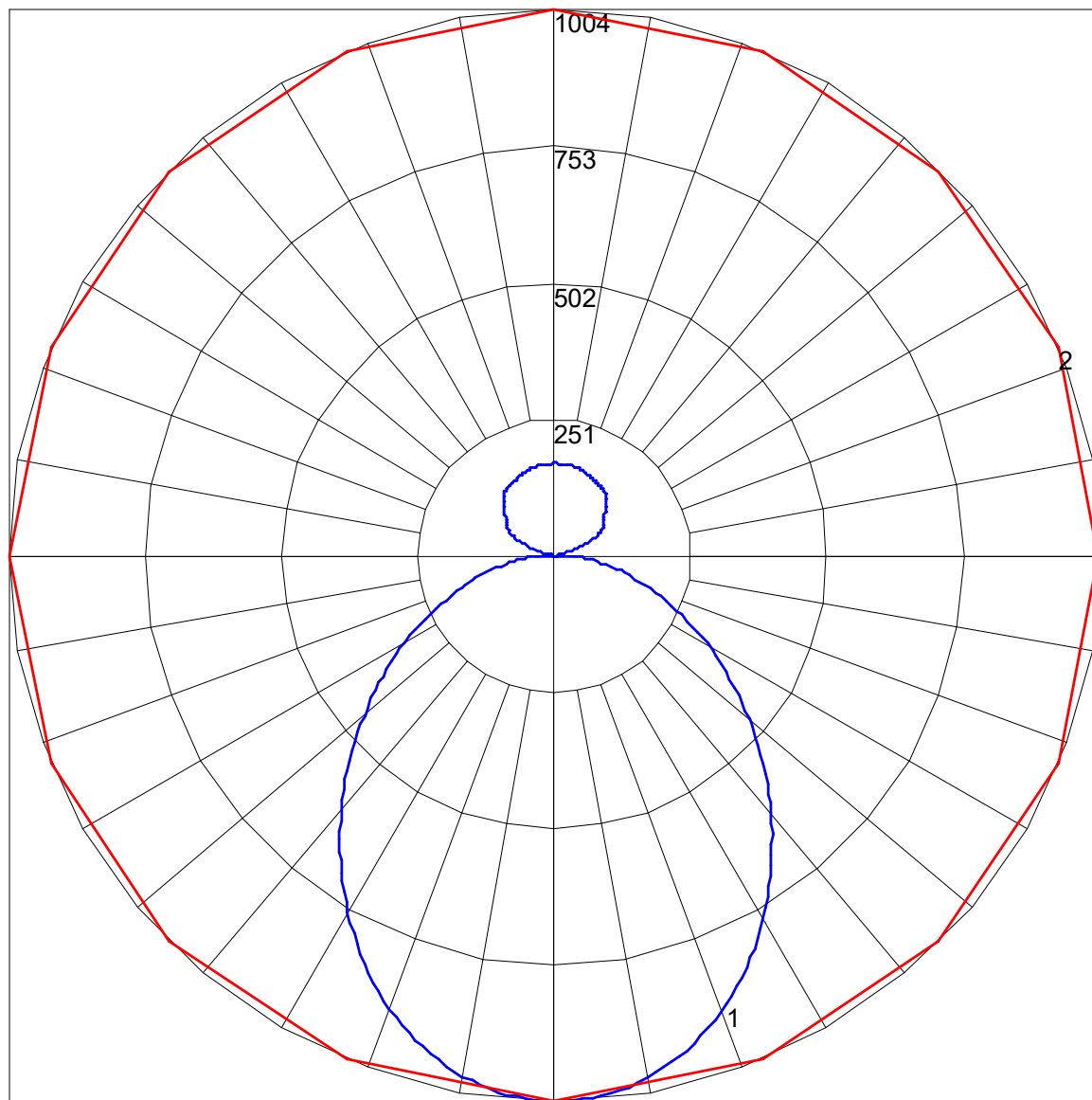
Reflectances

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	17.6	18.8	18.2	19.5	20.2	17.0	18.2	17.6	18.9	19.6
	3H	19.2	20.4	19.9	21.0	21.8	18.7	19.8	19.3	20.4	21.2
	4H	19.8	20.9	20.5	21.5	22.3	19.3	20.4	20.0	21.0	21.8
	6H	20.2	21.2	20.9	21.9	22.7	19.9	20.9	20.6	21.5	22.3
	8H	20.3	21.3	21.0	21.9	22.7	20.1	21.1	20.8	21.7	22.5
	12H	20.4	21.3	21.1	21.9	22.8	20.4	21.2	21.0	21.9	22.7
4H	2H	18.1	19.1	18.7	19.8	20.6	17.6	18.7	18.3	19.3	20.1
	3H	20.0	20.8	20.6	21.5	22.3	19.5	20.4	20.2	21.1	21.9
	4H	20.7	21.5	21.4	22.2	23.0	20.3	21.1	21.0	21.8	22.6
	6H	21.2	21.9	21.9	22.6	23.5	21.0	21.7	21.7	22.4	23.3
	8H	21.4	22.0	22.1	22.7	23.6	21.3	22.0	22.0	22.7	23.5
	12H	21.4	22.0	22.2	22.8	23.6	21.6	22.2	22.3	22.9	23.8
8H	4H	20.9	21.6	21.7	22.3	23.2	20.6	21.3	21.3	22.0	22.8
	6H	21.6	22.1	22.3	22.9	23.8	21.4	22.0	22.2	22.8	23.6
	8H	21.8	22.3	22.6	23.1	24.0	21.9	22.3	22.6	23.1	24.0
	12H	22.0	22.4	22.8	23.2	24.1	22.3	22.7	23.0	23.5	24.4
12H	4H	21.0	21.6	21.7	22.3	23.1	20.6	21.2	21.4	22.0	22.8
	6H	21.7	22.2	22.4	22.9	23.8	21.5	22.0	22.3	22.7	23.6
	8H	21.9	22.4	22.7	23.1	24.1	22.0	22.4	22.7	23.2	24.1

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1003.86 Located At Horizontal Angle = 67.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)