

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV2-LED35-LO-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-LO-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	1662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	13.8
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	4462	4314	4134
55	4054	3883	3670
65	3609	3447	3286
75	3010	3044	2998
85	1842	3070	3685

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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	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4
1	556.5	557.1	557.1	557.7	557.4	557.4	557.1	556.8	556.8
2	556.2	556.8	556.5	557.1	556.8	556.8	556.8	556.2	556.2
3	555.6	555.9	555.9	556.5	556.2	555.9	555.9	555.6	555.6
4	554.4	555.0	554.7	555.6	555.0	554.7	555.0	554.4	554.7
5	553.2	553.8	553.5	554.1	553.5	553.2	553.5	552.9	553.2
6	551.7	552.3	551.7	552.6	551.7	551.4	552.0	551.4	551.7
7	549.6	550.5	549.6	550.5	549.6	549.0	549.9	549.0	549.9
8	547.2	548.4	547.5	548.4	547.2	546.6	547.8	546.9	547.8
9	545.1	546.0	544.8	545.7	544.5	543.9	545.1	544.5	545.4
10	542.1	543.3	541.8	543.0	540.9	540.6	542.1	541.5	542.7
11	539.4	540.3	538.8	539.4	537.9	537.0	539.1	538.5	539.7
12	535.8	537.0	535.2	535.8	533.7	533.4	535.5	535.2	536.1
13	532.5	533.4	531.6	532.2	530.1	529.5	531.9	531.3	532.8
14	528.6	529.8	527.4	527.7	525.3	525.0	528.0	527.4	528.6
15	524.4	525.9	522.6	523.5	520.8	520.2	523.8	523.2	525.3
16	520.2	521.4	518.7	518.7	516.0	515.4	519.0	518.7	520.5
17	515.4	516.9	513.3	513.9	510.9	510.3	514.2	513.9	516.3
18	510.6	512.1	508.8	508.5	505.5	504.9	509.4	509.1	511.2
19	505.8	507.0	503.1	503.1	499.8	499.2	503.7	504.0	506.4
20	500.4	501.6	498.0	497.4	493.8	493.5	498.6	498.6	501.0
21	494.7	496.2	491.4	491.4	487.5	487.2	492.3	492.9	495.6
22	489.3	490.5	486.0	485.1	481.2	480.9	486.9	487.2	489.9
23	483.3	484.5	479.4	478.5	474.6	474.3	480.0	481.2	483.9
24	477.3	478.5	472.8	471.9	467.7	467.1	474.0	474.6	477.9
25	471.0	472.2	466.2	465.0	460.5	460.5	466.8	468.3	471.6
26	464.4	465.6	459.3	457.8	453.3	453.0	460.8	461.4	465.3
27	458.1	459.0	452.4	450.6	445.8	446.1	453.3	455.1	458.7
28	451.2	451.8	445.2	442.8	438.0	438.0	446.1	447.9	451.2
29	444.3	445.2	437.7	435.6	430.5	430.8	438.6	441.0	444.9
30	436.5	437.7	430.2	427.5	422.1	422.7	431.1	433.5	437.4
31	429.9	430.5	422.7	420.0	414.6	414.6	423.6	426.3	430.8
32	421.8	423.0	414.9	411.6	405.6	406.5	415.8	418.8	422.7
33	414.3	415.2	407.1	403.8	397.8	398.1	408.0	410.7	415.8
34	406.8	407.7	399.3	395.4	389.1	390.3	400.2	403.2	407.7
35	399.0	399.6	391.2	386.7	380.7	381.6	392.1	395.1	399.9
36	391.2	392.1	383.1	378.6	372.0	373.5	384.0	387.6	392.1
37	383.4	383.7	374.7	369.9	363.6	364.5	375.9	379.2	384.3
38	375.3	376.2	366.6	361.8	354.9	356.4	367.8	371.7	376.5
39	367.5	367.8	358.2	353.1	346.5	347.7	359.4	363.0	368.4
40	359.4	360.0	349.2	344.7	337.8	339.0	351.0	354.9	360.3
41	351.0	351.3	341.4	336.0	329.1	330.6	342.9	346.8	352.2
42	342.9	343.5	332.4	327.6	320.4	321.9	334.5	338.4	344.1
43	334.8	334.8	324.9	318.6	312.0	313.5	325.8	330.0	335.7
44	326.7	326.1	315.6	310.2	303.3	305.1	316.8	321.3	327.3
45	318.3	318.3	307.8	301.8	294.9	296.4	308.7	313.5	319.2
46	309.9	309.6	298.8	292.8	286.5	288.0	300.0	304.8	310.8
47	301.8	301.5	291.3	284.7	278.1	279.6	291.9	297.0	302.7
48	293.4	292.8	282.0	276.0	269.7	271.2	283.2	288.3	294.3
49	284.4	285.0	273.6	267.9	261.0	262.5	274.8	279.9	285.9
50	276.6	276.3	265.5	259.5	253.2	254.4	266.7	271.5	277.8
51	267.6	267.9	257.1	251.4	244.5	246.3	258.3	263.1	269.4
52	260.1	259.8	249.0	243.3	237.0	238.2	250.2	255.0	261.0
53	251.1	251.4	240.9	235.2	228.3	230.1	242.1	246.6	252.0

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**CANDELA TABULATION - (Cont.)**

54	243.6	243.0	232.8	227.1	221.1	222.3	234.0	238.5	244.5
55	234.6	234.9	224.7	219.3	212.4	214.5	225.9	230.1	235.5
56	226.5	226.8	216.6	211.2	205.2	206.4	217.8	221.7	228.0
57	218.1	218.4	208.8	203.7	197.4	198.9	209.7	213.9	219.0
58	210.0	210.3	200.4	195.9	190.2	191.1	201.9	205.5	211.8
59	201.9	202.5	193.2	188.1	182.4	183.9	194.1	198.0	203.1
60	193.8	194.1	185.1	180.6	175.2	176.1	185.7	189.6	195.0
61	185.7	186.3	177.6	173.1	168.0	169.2	178.5	181.8	186.9
62	177.6	178.2	169.2	165.9	160.8	161.7	170.4	173.7	178.8
63	169.8	170.4	162.6	158.7	153.9	154.5	163.5	166.2	170.7
64	161.7	162.3	154.5	151.8	147.0	147.6	155.4	158.1	162.9
65	153.9	154.5	147.0	144.6	140.1	140.1	148.8	150.0	154.8
66	146.1	147.0	139.8	137.7	133.5	133.8	140.7	142.5	147.0
67	138.3	139.2	132.6	131.1	126.9	126.6	134.4	134.7	139.2
68	130.5	131.7	125.7	124.2	120.3	120.3	126.6	127.5	131.4
69	122.7	123.9	118.5	117.6	114.0	113.4	119.4	119.7	123.9
70	115.2	116.7	111.6	111.3	107.7	106.8	112.5	112.5	116.1
71	107.4	108.9	104.4	104.7	101.7	101.1	105.9	103.5	108.6
72	99.9	102.0	97.8	98.7	95.7	95.4	99.0	98.1	101.1
73	93.0	94.5	92.1	92.4	90.0	89.1	92.4	91.2	93.6
74	85.2	87.9	85.8	86.7	84.0	83.1	86.1	84.3	86.4
75	78.6	80.7	79.5	80.4	78.3	77.4	79.8	77.4	78.6
76	70.8	73.5	73.2	74.4	72.6	71.7	73.5	70.5	71.4
77	64.2	67.2	67.2	69.3	67.5	66.3	67.5	63.9	64.5
78	57.0	60.3	61.2	63.6	62.1	60.6	61.8	57.6	57.6
79	51.0	54.3	55.5	58.5	57.6	55.8	56.1	51.3	51.0
80	43.8	48.0	50.1	53.4	52.5	50.7	50.4	45.3	44.7
81	38.1	42.3	44.7	48.9	48.3	46.2	45.0	39.6	38.7
82	31.8	36.6	39.9	44.4	43.8	42.0	40.2	33.9	32.7
83	26.4	31.2	35.1	39.9	39.9	37.8	35.7	28.5	26.7
84	21.0	26.7	30.9	36.0	36.3	33.9	30.9	23.7	21.6
85	16.2	21.3	27.0	32.1	32.4	30.3	27.3	19.2	16.2
86	12.0	17.1	23.4	28.5	29.1	27.0	23.7	15.3	12.0
87	8.1	13.5	20.1	25.2	26.4	23.7	19.8	12.0	8.1
88	4.8	10.2	16.8	22.2	22.8	20.7	16.8	9.0	4.5
89	2.1	7.8	14.1	19.2	19.8	17.7	13.8	6.6	1.8
90	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
91	0.3	0.3	0.6	0.6	0.6	0.3	0.3	0.3	0.6
92	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
93	2.4	0.9	0.9	0.9	0.6	0.6	0.6	0.6	2.7
94	3.9	1.5	0.9	0.9	0.9	0.9	0.9	0.9	4.2
95	5.4	3.6	1.2	1.2	1.2	1.2	1.2	2.1	5.7
96	7.2	6.0	1.5	1.5	1.5	1.5	1.5	3.9	7.2
97	9.0	9.3	1.8	1.8	1.5	1.5	1.8	6.9	9.0
98	10.8	12.0	3.0	2.1	1.8	1.8	2.7	10.2	10.8
99	12.6	14.7	5.4	2.4	2.1	2.1	4.8	13.5	12.6
100	14.1	17.7	7.8	3.3	2.7	2.7	7.2	16.2	14.1
101	15.9	20.1	10.5	6.0	3.3	4.2	9.6	18.9	16.2
102	17.7	21.9	13.8	8.1	5.4	6.3	13.2	21.3	17.7
103	19.5	23.7	17.7	10.8	8.1	8.7	17.1	23.4	19.8
104	21.3	25.8	21.0	13.5	10.5	11.1	20.7	24.9	21.3
105	23.1	27.3	24.3	17.4	13.2	14.4	24.0	26.4	23.4
106	24.9	28.8	27.3	21.3	16.5	18.0	27.6	27.9	25.2
107	26.4	30.3	30.3	24.9	20.1	22.2	30.3	29.7	26.7
108	28.2	32.1	33.3	28.2	24.0	25.8	33.6	31.5	28.5
109	29.7	34.2	36.0	31.5	27.6	29.1	36.3	33.3	30.0

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**CANDELA TABULATION - (Cont.)**

110	31.5	36.3	38.7	34.5	30.9	32.7	39.0	35.7	31.8
111	33.0	38.7	40.8	37.5	34.2	35.7	41.1	37.8	33.3
112	34.8	40.5	42.3	40.2	37.2	38.7	42.9	39.9	35.1
113	36.0	42.3	44.1	43.2	40.2	41.4	44.7	42.0	36.6
114	37.8	44.1	45.9	45.6	42.9	44.1	46.5	43.8	38.1
115	39.3	45.9	47.4	48.3	45.6	46.5	47.4	45.6	39.6
116	40.8	47.4	48.3	50.4	48.0	49.2	48.3	47.4	41.1
117	42.3	48.9	49.5	51.9	50.7	51.3	49.5	48.6	42.6
118	43.8	50.1	50.7	53.4	52.8	52.8	51.0	50.1	44.1
119	45.3	51.6	52.2	55.2	54.6	54.3	52.2	51.3	45.6
120	46.8	52.8	53.1	56.7	56.1	55.8	53.4	52.5	47.1
121	48.3	54.0	54.6	57.6	57.6	57.0	54.9	53.7	48.6
122	49.8	55.2	56.1	58.5	59.1	57.9	56.7	54.6	50.1
123	51.0	56.1	58.2	59.4	60.0	58.8	58.2	55.8	51.6
124	52.5	57.3	60.0	60.3	60.6	59.7	60.3	56.7	52.8
125	54.0	58.2	61.8	61.5	61.5	60.6	62.1	57.6	54.3
126	55.5	59.4	63.3	62.4	62.4	61.8	63.6	58.8	55.8
127	56.7	60.3	64.8	63.3	63.3	62.7	65.4	59.7	57.0
128	58.2	61.2	66.3	64.8	64.5	63.9	66.9	60.9	58.2
129	59.4	62.4	67.8	66.0	65.1	65.1	68.4	61.8	59.7
130	60.9	63.3	69.3	67.8	66.3	66.9	69.9	63.0	60.9
131	61.8	64.5	70.5	69.3	67.8	68.1	71.1	63.9	62.1
132	63.3	65.4	71.7	71.1	69.3	70.2	72.3	65.1	63.3
133	64.5	66.6	72.6	72.6	70.8	71.7	73.2	66.0	64.8
134	65.7	67.5	73.5	73.8	72.3	73.2	74.1	67.2	66.0
135	66.9	68.7	74.4	75.3	74.1	74.7	75.0	68.1	66.9
136	67.8	69.9	75.3	76.8	75.3	76.2	75.9	69.3	68.1
137	69.3	70.8	76.2	78.0	76.8	77.4	76.5	70.5	69.3
138	70.2	72.0	77.1	79.2	78.3	78.9	77.4	71.4	70.5
139	71.4	72.9	77.7	80.4	79.5	79.8	78.0	72.6	71.7
140	72.3	74.1	78.3	81.0	80.7	80.7	78.6	73.5	72.6
141	73.5	75.0	78.9	81.9	81.9	81.6	78.9	74.7	73.8
142	74.4	75.9	79.5	82.5	82.8	82.2	79.5	75.6	74.7
143	75.6	77.1	80.1	83.1	83.4	83.1	80.1	76.5	75.6
144	76.5	78.0	80.4	83.7	84.0	83.7	80.7	77.7	76.8
145	77.4	78.9	81.0	84.3	84.6	84.3	81.3	78.6	77.7
146	78.3	79.8	81.9	84.9	85.2	84.6	81.9	79.5	78.6
147	79.2	80.7	82.2	85.2	85.8	85.2	82.5	80.4	79.5
148	80.1	81.6	82.8	85.5	86.4	85.5	83.1	81.3	80.4
149	81.0	82.2	83.4	85.8	86.7	85.8	83.7	81.9	81.3
150	81.9	83.1	84.0	86.4	87.0	86.1	84.3	82.8	82.2
151	82.8	83.7	84.6	86.7	87.3	86.4	84.9	83.7	82.8
152	83.4	84.6	85.5	87.0	87.6	86.7	85.5	84.3	83.7
153	84.3	85.2	86.1	87.3	87.9	87.3	86.1	84.9	84.3
154	84.9	85.8	86.7	87.9	88.2	87.6	86.7	85.5	85.2
155	85.5	86.4	87.3	88.2	88.5	88.2	87.3	86.1	85.8
156	86.4	87.0	87.9	88.8	88.8	88.5	87.9	86.7	86.4
157	87.0	87.6	88.5	89.1	89.4	88.8	88.5	87.3	87.0
158	87.6	87.9	89.1	89.7	89.7	89.4	89.1	87.9	87.6
159	88.2	88.5	89.4	90.0	90.0	90.0	89.7	88.2	88.2
160	88.8	88.8	90.0	90.6	90.6	90.3	90.3	88.8	88.8
161	89.1	89.4	90.6	91.2	90.9	90.9	90.6	89.1	89.4
162	89.7	89.7	90.9	91.5	91.5	91.2	91.2	89.7	89.7
163	90.3	90.3	91.2	91.8	91.8	91.8	91.5	90.0	90.3
164	90.6	90.6	91.8	92.4	92.1	92.1	91.8	90.6	90.6
165	91.2	90.9	91.8	92.7	92.4	92.4	92.1	90.9	91.2

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**CANDELA TABULATION - (Cont.)**

<b>166</b>	91.5	91.2	92.1	93.0	92.7	92.7	92.1	91.2	91.5
<b>167</b>	91.8	91.8	92.4	93.0	93.0	93.0	92.4	91.5	91.8
<b>168</b>	92.1	92.1	92.4	93.3	93.3	93.3	92.4	91.8	92.1
<b>169</b>	92.4	92.4	92.7	93.3	93.3	93.3	92.7	92.1	92.7
<b>170</b>	92.7	92.7	92.7	93.3	93.6	93.3	92.7	92.4	92.7
<b>171</b>	93.0	92.7	92.7	93.3	93.3	93.3	93.0	92.7	93.0
<b>172</b>	93.3	93.0	93.0	93.3	93.3	93.3	93.0	93.0	93.3
<b>173</b>	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.6
<b>174</b>	93.6	93.6	93.3	93.3	93.3	93.3	93.3	93.6	93.6
<b>175</b>	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.9
<b>176</b>	93.9	93.9	93.6	93.6	93.6	93.6	93.9	93.9	93.9
<b>177</b>	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.2
<b>178</b>	94.2	94.2	93.9	93.9	93.9	93.9	94.2	94.2	94.2
<b>179</b>	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
<b>180</b>	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	199.76	N.A.	12.00
0-30	414.30	N.A.	24.90
0-40	658.63	N.A.	39.60
0-60	1096.84	N.A.	66.00
0-80	1326.95	N.A.	79.90
0-90	1355.99	N.A.	81.60
10-90	1303.52	N.A.	78.40
20-40	458.86	N.A.	27.60
20-50	696.03	N.A.	41.90
40-70	584.48	N.A.	35.20
60-80	230.11	N.A.	13.80
70-80	83.84	N.A.	5.00
80-90	29.05	N.A.	1.70
90-110	25.95	N.A.	1.60
90-120	70.67	N.A.	4.30
90-130	124.08	N.A.	7.50
90-150	230.64	N.A.	13.90
90-180	305.76	N.A.	18.40
110-180	279.82	N.A.	16.80
0-180	1661.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	52.47
10-20	147.30
20-30	214.54
30-40	244.33
40-50	237.17
50-60	201.04
60-70	146.27
70-80	83.84
80-90	29.05
90-100	3.29
100-110	22.66
110-120	44.73
120-130	53.41
130-140	55.64
140-150	50.92
150-160	40.28
160-170	25.93
170-180	8.91

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : WV2-LED35-LO-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	83	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	33	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-LO-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

X=2H	Y=2H	15.6	16.8	16.2	17.5	18.2	UGR Viewed Endwise	15.0	16.2	15.6	16.9	17.6
	3H	17.2	18.4	17.9	19.0	19.8		16.7	17.8	17.3	18.4	19.2
	4H	17.8	18.9	18.5	19.5	20.3		17.3	18.4	18.0	19.0	19.8
	6H	18.2	19.2	18.9	19.9	20.7		17.9	18.9	18.6	19.5	20.3
	8H	18.3	19.3	19.0	19.9	20.7		18.1	19.1	18.8	19.7	20.5
	12H	18.4	19.3	19.1	19.9	20.8		18.3	19.2	19.0	19.9	20.7

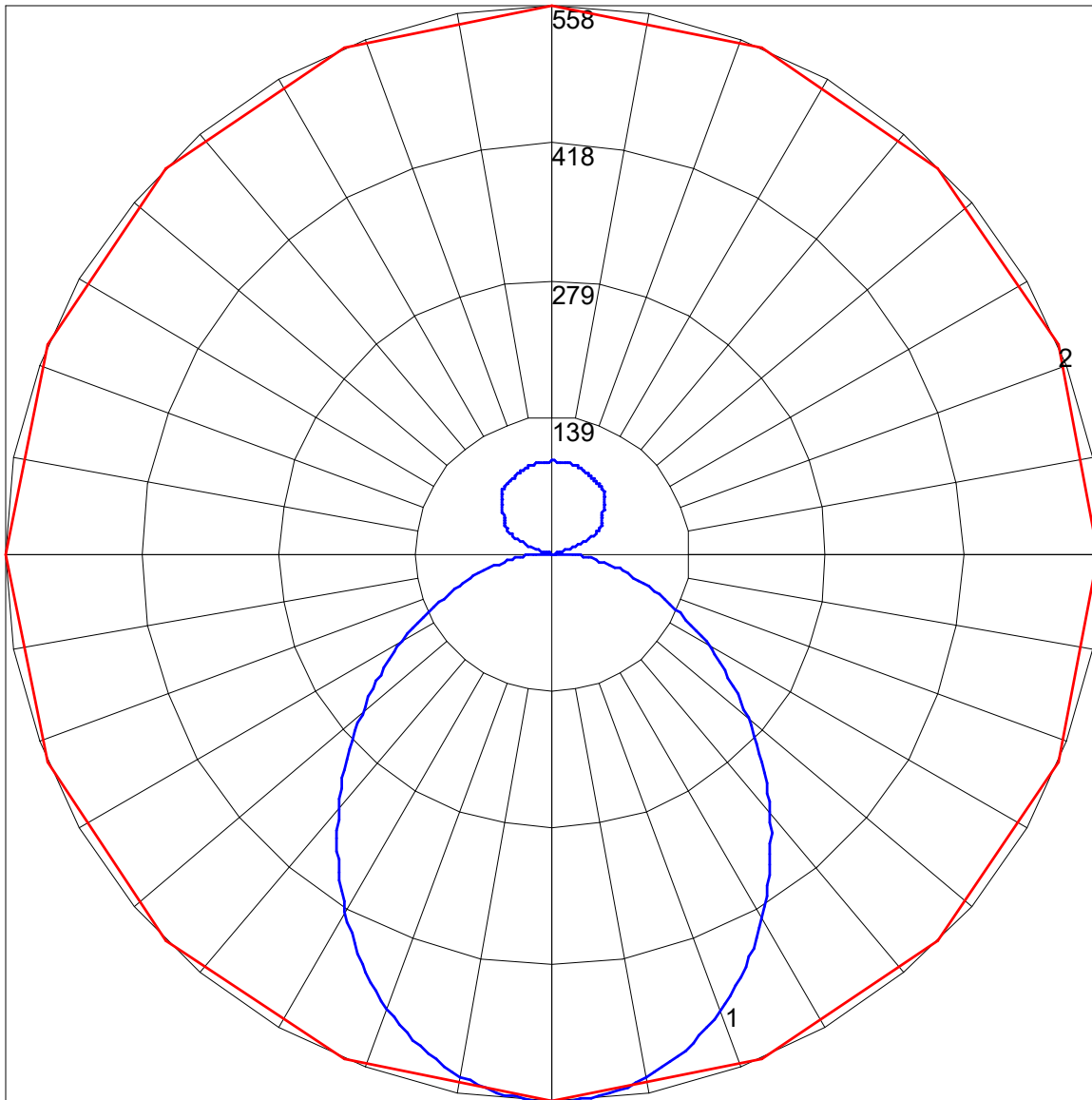
4H	2H	16.1	17.1	16.7	17.8	18.6	15.6	16.7	16.3	17.3	18.1
	3H	18.0	18.8	18.6	19.5	20.3	17.5	18.4	18.2	19.1	19.9
	4H	18.7	19.5	19.4	20.2	21.0	18.3	19.1	19.0	19.8	20.6
	6H	19.2	19.9	19.9	20.6	21.5	19.0	19.7	19.7	20.4	21.3
	8H	19.4	20.0	20.1	20.7	21.6	19.3	20.0	20.0	20.7	21.5
	12H	19.4	20.0	20.2	20.8	21.6	19.6	20.2	20.3	20.9	21.8

8H	4H	18.9	19.6	19.7	20.3	21.2	18.6	19.3	19.3	20.0	20.8
	6H	19.6	20.1	20.3	20.9	21.8	19.4	20.0	20.2	20.8	21.6
	8H	19.8	20.3	20.6	21.1	22.0	19.8	20.3	20.6	21.1	22.0
	12H	20.0	20.4	20.8	21.2	22.1	20.3	20.7	21.0	21.5	22.4

12H	4H	19.0	19.5	19.7	20.3	21.1	18.6	19.2	19.3	20.0	20.8
	6H	19.7	20.2	20.4	20.9	21.8	19.5	20.0	20.3	20.7	21.6
	8H	19.9	20.4	20.7	21.1	22.1	20.0	20.4	20.7	21.2	22.1

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 557.7 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.)