

IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4030-LED4-SO-FWA-D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] P3930 or 4030-LED4-SO-FWA -D1 - pendant

[TESTLAB] Intertek

[ISSUE DATE] October 4, 2016

[MANUFAC] Prudential Ltg

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	94
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.96 ft (Diameter)
Luminous Width (90-270)	2.96 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4731	4719	4729
55	4568	4548	4551
65	4315	4286	4301
75	3913	3903	3926
85	3076	3131	3197

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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>	<u>202.5</u>
0.0	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825
2.5	3199.767	3198.830	3200.107	3199.891	3200.612	3199.891	3200.107	3198.830	3201.302	3198.830
5.0	3189.199	3189.127	3189.312	3188.705	3189.416	3188.705	3189.312	3189.127	3190.013	3189.127
7.5	3172.359	3172.091	3170.639	3169.712	3170.443	3169.712	3170.639	3172.091	3169.742	3172.091
10.0	3145.105	3145.445	3145.424	3146.186	3145.507	3146.186	3145.424	3145.445	3145.641	3145.445
12.5	3112.351	3114.020	3113.319	3111.578	3113.113	3111.578	3113.319	3114.020	3113.288	3114.020
15.0	3072.840	3076.425	3073.376	3073.695	3073.767	3073.695	3073.376	3076.425	3074.344	3076.425
17.5	3025.234	3029.096	3029.415	3026.851	3027.520	3026.851	3029.415	3029.096	3029.271	3029.096
20.0	2974.063	2975.598	2975.309	2975.237	2976.072	2975.237	2975.309	2975.598	2976.442	2975.598
22.5	2915.672	2917.897	2916.229	2915.518	2917.794	2915.518	2916.229	2917.897	2917.135	2917.897
25.0	2847.734	2850.978	2849.866	2848.939	2851.452	2848.939	2849.866	2850.978	2853.739	2850.978
27.5	2778.034	2779.836	2779.476	2778.136	2781.577	2778.136	2779.476	2779.836	2780.629	2779.836
30.0	2696.808	2704.244	2703.904	2701.206	2705.460	2701.206	2703.904	2704.244	2706.572	2704.244
32.5	2612.554	2620.598	2618.888	2618.960	2624.801	2618.960	2618.888	2620.598	2623.997	2620.598
35.0	2525.179	2534.984	2531.050	2533.089	2535.963	2533.089	2531.050	2534.984	2533.254	2534.984
37.5	2440.770	2439.864	2438.442	2437.763	2442.305	2437.763	2438.442	2439.864	2439.102	2439.864
40.0	2349.028	2340.675	2340.356	2339.902	2343.631	2339.902	2340.356	2340.675	2343.034	2340.675
42.5	2247.357	2241.599	2238.870	2238.829	2242.464	2238.829	2238.870	2241.599	2239.972	2241.599
45.0	2138.270	2134.108	2132.759	2131.935	2137.198	2131.935	2132.759	2134.108	2130.916	2134.108
47.5	2022.498	2023.353	2021.354	2021.663	2025.639	2021.663	2021.354	2023.353	2018.594	2023.353
50.0	1908.590	1909.692	1905.572	1906.489	1909.671	1906.489	1905.572	1909.692	1904.779	1909.692
52.5	1794.857	1791.572	1787.812	1787.575	1790.490	1787.575	1791.572	1791.572	1785.268	1791.572
55.0	1674.852	1669.475	1667.261	1666.004	1668.497	1666.004	1667.261	1669.475	1664.758	1669.475
57.5	1547.451	1545.803	1542.961	1543.548	1546.102	1543.548	1542.961	1545.803	1540.097	1545.803
60.0	1418.547	1420.988	1417.362	1417.960	1420.422	1417.960	1417.362	1420.988	1415.158	1420.988
62.5	1291.672	1291.805	1288.046	1291.476	1291.414	1291.476	1288.046	1291.805	1288.139	1291.805
65.0	1165.466	1163.138	1157.895	1162.149	1161.881	1162.149	1157.895	1163.138	1157.020	1163.138
67.5	1035.037	1032.843	1027.950	1029.691	1033.945	1029.691	1027.950	1032.843	1028.167	1032.843
70.0	900.611	902.280	900.313	899.726	903.186	899.726	900.313	902.280	899.149	902.280
72.5	771.779	773.932	772.181	773.777	775.734	773.777	772.181	773.932	772.438	773.932
75.0	647.406	647.499	645.614	648.581	649.518	648.581	645.614	647.499	647.582	647.499
77.5	525.393	523.405	521.201	525.908	526.773	525.908	521.201	523.405	524.352	523.405
80.0	404.038	404.368	402.174	404.656	405.779	404.656	402.174	404.368	402.380	404.368
82.5	285.454	288.585	285.640	287.329	289.667	287.329	285.640	288.585	286.124	288.585
85.0	171.361	178.303	174.400	177.356	178.118	177.356	174.400	178.303	176.676	178.303
87.5	70.596	74.768	71.018	73.686	74.860	73.686	71.018	74.768	72.594	74.768
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825	3203.825
2.5	3200.107	3199.891	3200.612	3199.891	3200.107	3198.830	3199.767
5.0	3189.312	3188.705	3189.416	3188.705	3189.312	3189.127	3189.199
7.5	3170.639	3169.712	3170.443	3169.712	3170.639	3172.091	3172.359
10.0	3145.424	3146.186	3145.507	3146.186	3145.424	3145.445	3145.105
12.5	3113.319	3111.578	3113.113	3111.578	3113.319	3114.020	3112.351
15.0	3073.376	3073.695	3073.767	3073.695	3073.376	3076.425	3072.840
17.5	3029.415	3026.851	3027.520	3026.851	3029.415	3029.096	3025.234
20.0	2975.309	2975.237	2976.072	2975.237	2975.309	2975.598	2974.063
22.5	2916.229	2915.518	2917.794	2915.518	2916.229	2917.897	2915.672
25.0	2849.866	2848.939	2851.452	2848.939	2849.866	2850.978	2847.734
27.5	2779.476	2778.136	2781.577	2778.136	2779.476	2779.836	2778.034
30.0	2703.904	2701.206	2705.460	2701.206	2703.904	2704.244	2696.808
32.5	2618.888	2618.960	2624.801	2618.960	2618.888	2620.598	2612.554
35.0	2531.050	2533.089	2535.963	2533.089	2531.050	2534.984	2525.179
37.5	2438.442	2437.763	2442.305	2437.763	2438.442	2439.864	2440.770
40.0	2340.356	2339.902	2343.631	2339.902	2340.356	2340.675	2349.028
42.5	2238.870	2238.829	2242.464	2238.829	2238.870	2241.599	2247.357
45.0	2132.759	2131.935	2137.198	2131.935	2132.759	2134.108	2138.270
47.5	2021.354	2021.663	2025.639	2021.663	2021.354	2023.353	2022.498
50.0	1905.572	1906.489	1909.671	1906.489	1905.572	1909.692	1908.590
52.5	1787.812	1787.575	1790.490	1787.575	1787.812	1791.572	1794.857
55.0	1667.261	1666.004	1668.497	1666.004	1667.261	1669.475	1674.852
57.5	1542.961	1543.548	1546.102	1543.548	1542.961	1545.803	1547.451
60.0	1417.362	1417.960	1420.422	1417.960	1417.362	1420.988	1418.547
62.5	1288.046	1291.476	1291.414	1291.476	1288.046	1291.805	1291.672
65.0	1157.895	1162.149	1161.881	1162.149	1157.895	1163.138	1165.466
67.5	1027.950	1029.691	1033.945	1029.691	1027.950	1032.843	1035.037
70.0	900.313	899.726	903.186	899.726	900.313	902.280	900.611
72.5	772.181	773.777	775.734	773.777	772.181	773.932	771.779
75.0	645.614	648.581	649.518	648.581	645.614	647.499	647.406
77.5	521.201	525.908	526.773	525.908	521.201	523.405	525.393
80.0	402.174	404.656	405.779	404.656	402.174	404.368	404.038

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CANDELA TABULATION - (Cont.)

82.5	285.640	287.329	289.667	287.329	285.640	288.585	285.454
85.0	174.400	177.356	178.118	177.356	174.400	178.303	171.361
87.5	71.018	73.686	74.860	73.686	71.018	74.768	70.596
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1170.54	N.A.	12.70
0-30	2484.35	N.A.	26.90
0-40	4068.42	N.A.	44.00
0-60	7204.24	N.A.	78.00
0-80	9038.05	N.A.	97.80
0-90	9239.07	N.A.	100.00
10-90	8936.04	N.A.	96.70
20-40	2897.88	N.A.	31.40
20-50	4543.07	N.A.	49.20
40-70	4284.57	N.A.	46.40
60-80	1833.81	N.A.	19.80
70-80	685.06	N.A.	7.40
80-90	201.03	N.A.	2.20
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	9239.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	303.03
10-20	867.51
20-30	1313.82
30-40	1584.06
40-50	1645.19
50-60	1490.64
60-70	1148.74
70-80	685.06
80-90	201.03
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

IES INDOOR REPORT
PHOTOMETRIC FILENAME : P4030-LED4-SO-FWA-D1.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	16.6	18.2	16.9	18.5	18.8	16.6	18.2	16.9	18.5	18.8
	3H	18.4	19.9	18.8	20.3	20.6	18.4	19.9	18.8	20.2	20.6
	4H	19.2	20.6	19.5	20.9	21.3	19.1	20.6	19.5	20.9	21.3
	6H	19.7	21.0	20.1	21.4	21.8	19.7	21.0	20.1	21.4	21.8
	8H	19.9	21.1	20.3	21.5	21.9	19.9	21.2	20.3	21.5	21.9
	12H	20.0	21.2	20.4	21.6	22.0	20.0	21.2	20.4	21.6	22.0

UGR Viewed Endwise

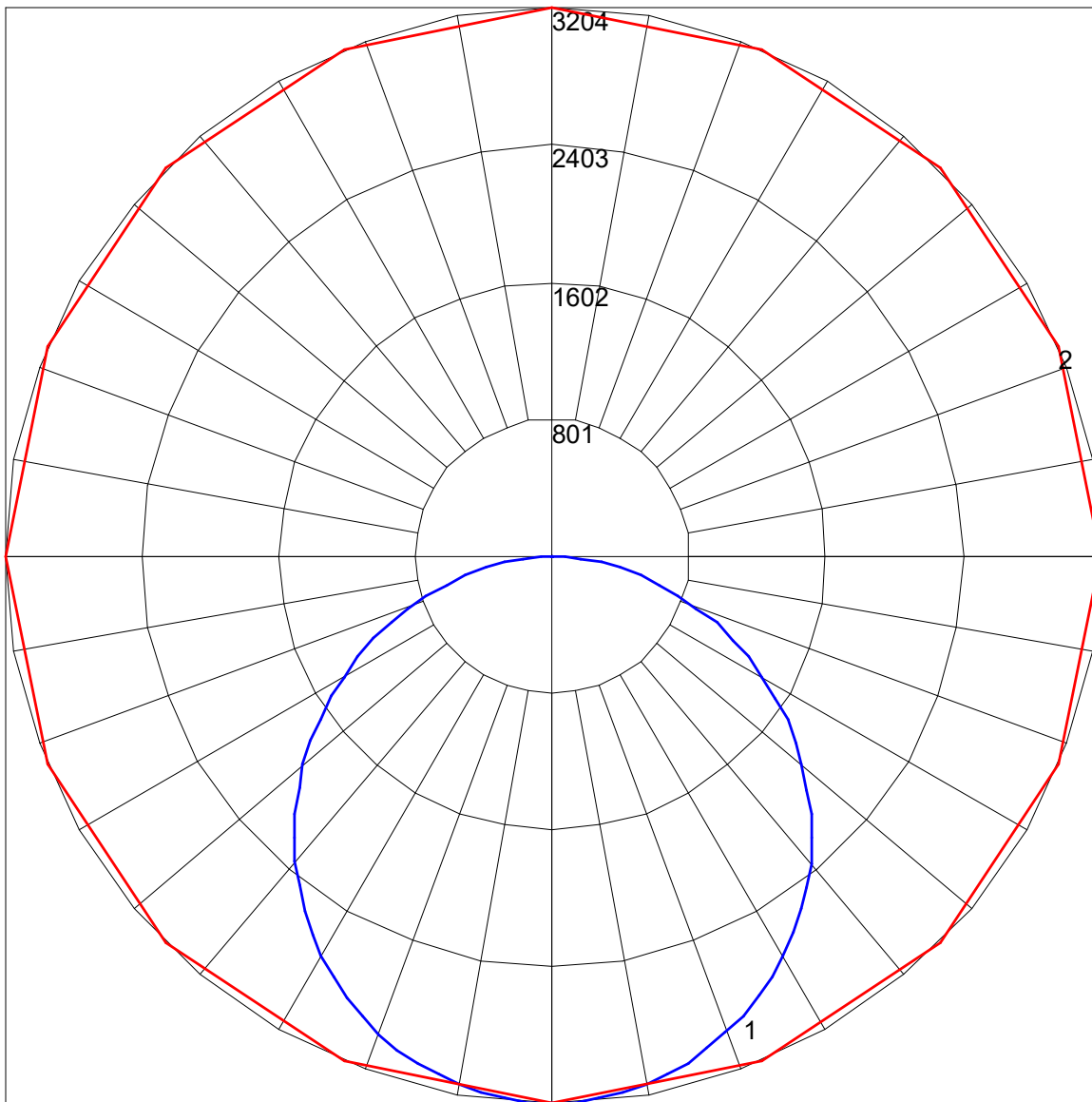
4H	2H	17.2	18.6	17.6	19.0	19.3	17.2	18.6	17.6	19.0	19.3
	3H	19.3	20.5	19.7	20.9	21.3	19.3	20.5	19.7	20.9	21.3
	4H	20.2	21.2	20.6	21.6	22.1	20.2	21.2	20.6	21.6	22.1
	6H	20.8	21.8	21.3	22.2	22.7	20.8	21.8	21.3	22.2	22.7
	8H	21.1	22.0	21.6	22.4	22.9	21.1	22.0	21.6	22.4	22.9
	12H	21.3	22.1	21.8	22.5	23.0	21.3	22.1	21.8	22.5	23.0

8H	4H	20.5	21.4	21.0	21.8	22.3	20.5	21.4	21.0	21.8	22.3
	6H	21.3	22.1	21.8	22.5	23.0	21.3	22.1	21.8	22.5	23.0
	8H	21.6	22.3	22.2	22.8	23.3	21.6	22.3	22.2	22.8	23.3
	12H	21.9	22.5	22.4	23.0	23.5	21.9	22.5	22.4	23.0	23.5

12H	4H	20.5	21.3	21.0	21.8	22.3	20.5	21.3	21.0	21.8	22.3
	6H	21.4	22.1	21.9	22.5	23.1	21.4	22.1	21.9	22.5	23.1
	8H	21.8	22.4	22.3	22.9	23.4	21.8	22.4	22.3	22.9	23.4

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 3203.825 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)