

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4030-LED4-LO-FWA-D1.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] P3930 or 4030-LED4-LO-FWA -D1  
[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	4933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	48
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	2526	2520	2525
55	2439	2428	2430
65	2304	2289	2297
75	2090	2084	2097
85	1643	1672	1707

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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	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781
2.5	1708.614	1708.113	1708.795	1708.680	1709.064	1708.680	1708.795	1708.113	1709.433	1708.113
5.0	1702.971	1702.932	1703.031	1702.707	1703.086	1702.707	1703.031	1702.932	1703.405	1702.932
7.5	1693.978	1693.835	1693.060	1692.564	1692.955	1692.564	1693.060	1693.835	1692.581	1693.835
10.0	1679.425	1679.607	1679.596	1680.003	1679.639	1680.003	1679.596	1679.607	1679.711	1679.607
12.5	1661.935	1662.826	1662.452	1661.523	1662.342	1661.523	1662.452	1662.826	1662.436	1662.826
15.0	1640.837	1642.751	1641.123	1641.293	1641.332	1641.293	1641.123	1642.751	1641.640	1642.751
17.5	1615.416	1617.479	1617.649	1616.280	1616.637	1616.280	1617.649	1617.479	1617.572	1617.479
20.0	1588.092	1588.911	1588.757	1588.719	1589.164	1588.719	1588.757	1588.911	1589.363	1588.911
22.5	1556.913	1558.100	1557.210	1556.830	1558.046	1556.830	1557.210	1558.100	1557.693	1558.100
25.0	1520.635	1522.367	1521.773	1521.278	1522.620	1521.278	1521.773	1522.367	1523.841	1522.367
27.5	1483.416	1484.379	1484.186	1483.471	1485.308	1483.471	1484.186	1484.379	1484.802	1484.379
30.0	1440.043	1444.014	1443.832	1442.392	1444.663	1442.392	1443.832	1444.014	1445.257	1444.014
32.5	1395.053	1399.349	1398.436	1398.474	1401.593	1398.474	1398.436	1399.349	1401.164	1399.349
35.0	1348.396	1353.632	1351.532	1352.621	1354.155	1352.621	1351.532	1353.632	1352.709	1353.632
37.5	1303.324	1302.840	1302.081	1301.718	1304.143	1301.718	1302.081	1302.840	1302.433	1302.840
40.0	1254.336	1249.875	1249.704	1249.463	1251.454	1249.463	1249.704	1249.875	1251.135	1249.875
42.5	1200.045	1196.971	1195.513	1195.491	1197.432	1195.491	1195.513	1196.971	1196.102	1196.971
45.0	1141.795	1139.572	1138.852	1138.412	1141.222	1138.412	1138.852	1139.572	1137.868	1139.572
47.5	1079.975	1080.431	1079.364	1079.529	1081.652	1079.529	1079.364	1080.431	1077.890	1080.431
50.0	1019.150	1019.738	1017.538	1018.028	1019.728	1018.028	1017.538	1019.738	1017.115	1019.738
52.5	958.419	956.665	954.657	954.531	956.087	954.531	954.657	956.665	953.299	956.665
55.0	894.338	891.468	890.285	889.614	890.945	889.614	890.285	891.468	888.949	891.468
57.5	826.309	825.429	823.911	824.224	825.588	824.224	823.911	825.429	822.382	825.429
60.0	757.477	758.780	756.844	757.163	758.478	757.163	756.844	758.780	755.667	758.780
62.5	689.728	689.799	687.792	689.623	689.590	689.623	687.792	689.799	687.841	689.799
65.0	622.336	621.093	618.294	620.565	620.422	620.565	618.294	621.093	617.826	621.093
67.5	552.690	551.518	548.906	549.835	552.107	549.835	548.906	551.518	549.021	551.518
70.0	480.909	481.800	480.750	480.436	482.284	480.436	480.750	481.800	480.128	481.800
72.5	412.115	413.265	412.330	413.182	414.227	413.182	412.330	413.265	412.467	413.265
75.0	345.703	345.752	344.746	346.330	346.830	346.330	344.746	345.752	345.796	345.752
77.5	280.550	279.488	278.311	280.825	281.287	280.825	278.311	279.488	279.994	279.488
80.0	215.748	215.925	214.753	216.079	216.678	216.079	214.753	215.925	214.863	215.925
82.5	152.427	154.099	152.526	153.428	154.677	153.428	152.526	154.099	152.785	154.099
85.0	91.503	95.211	93.126	94.705	95.111	94.705	93.126	95.211	94.342	95.211
87.5	37.697	39.924	37.922	39.347	39.974	39.347	37.922	39.924	38.764	39.924
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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**CANDELA TABULATION - (Cont.)**

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	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781	1710.781
2.5	1708.795	1708.680	1709.064	1708.680	1708.795	1708.113	1708.614
5.0	1703.031	1702.707	1703.086	1702.707	1703.031	1702.932	1702.971
7.5	1693.060	1692.564	1692.955	1692.564	1693.060	1693.835	1693.978
10.0	1679.596	1680.003	1679.639	1680.003	1679.596	1679.607	1679.425
12.5	1662.452	1661.523	1662.342	1661.523	1662.452	1662.826	1661.935
15.0	1641.123	1641.293	1641.332	1641.293	1641.123	1642.751	1640.837
17.5	1617.649	1616.280	1616.637	1616.280	1617.649	1617.479	1615.416
20.0	1588.757	1588.719	1589.164	1588.719	1588.757	1588.911	1588.092
22.5	1557.210	1556.830	1558.046	1556.830	1557.210	1558.100	1556.913
25.0	1521.773	1521.278	1522.620	1521.278	1521.773	1522.367	1520.635
27.5	1484.186	1483.471	1485.308	1483.471	1484.186	1484.379	1483.416
30.0	1443.832	1442.392	1444.663	1442.392	1443.832	1444.014	1440.043
32.5	1398.436	1398.474	1401.593	1398.474	1398.436	1399.349	1395.053
35.0	1351.532	1352.621	1354.155	1352.621	1351.532	1353.632	1348.396
37.5	1302.081	1301.718	1304.143	1301.718	1302.081	1302.840	1303.324
40.0	1249.704	1249.463	1251.454	1249.463	1249.704	1249.875	1254.336
42.5	1195.513	1195.491	1197.432	1195.491	1195.513	1196.971	1200.045
45.0	1138.852	1138.412	1141.222	1138.412	1138.852	1139.572	1141.795
47.5	1079.364	1079.529	1081.652	1079.529	1079.364	1080.431	1079.975
50.0	1017.538	1018.028	1019.728	1018.028	1017.538	1019.738	1019.150
52.5	954.657	954.531	956.087	954.531	954.657	956.665	958.419
55.0	890.285	889.614	890.945	889.614	890.285	891.468	894.338
57.5	823.911	824.224	825.588	824.224	823.911	825.429	826.309
60.0	756.844	757.163	758.478	757.163	756.844	758.780	757.477
62.5	687.792	689.623	689.590	689.623	687.792	689.799	689.728
65.0	618.294	620.565	620.422	620.565	618.294	621.093	622.336
67.5	548.906	549.835	552.107	549.835	548.906	551.518	552.690
70.0	480.750	480.436	482.284	480.436	480.750	481.800	480.909
72.5	412.330	413.182	414.227	413.182	412.330	413.265	412.115
75.0	344.746	346.330	346.830	346.330	344.746	345.752	345.703
77.5	278.311	280.825	281.287	280.825	278.311	279.488	280.550
80.0	214.753	216.079	216.678	216.079	214.753	215.925	215.748

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82.5	152.526	153.428	154.677	153.428	152.526	154.099	152.427
85.0	93.126	94.705	95.111	94.705	93.126	95.211	91.503
87.5	37.922	39.347	39.974	39.347	37.922	39.924	37.697
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	625.04	N.A.	12.70
0-30	1326.6	N.A.	26.90
0-40	2172.46	N.A.	44.00
0-60	3846.92	N.A.	78.00
0-80	4826.14	N.A.	97.80
0-90	4933.49	N.A.	100.00
10-90	4771.67	N.A.	96.70
20-40	1547.41	N.A.	31.40
20-50	2425.91	N.A.	49.20
40-70	2287.88	N.A.	46.40
60-80	979.22	N.A.	19.80
70-80	365.81	N.A.	7.40
80-90	107.34	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	4933.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.81
10-20	463.23
20-30	701.55
30-40	845.86
40-50	878.50
50-60	795.97
60-70	613.41
70-80	365.81
80-90	107.34
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

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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	14.4	16.0	14.7	16.3	16.6	14.4	16.0	14.7	16.3	16.6
	3H	16.2	17.7	16.6	18.1	18.4	16.2	17.7	16.6	18.0	18.4
	4H	17.0	18.4	17.3	18.7	19.1	16.9	18.4	17.3	18.7	19.1
	6H	17.5	18.8	17.9	19.2	19.6	17.5	18.8	17.9	19.2	19.6
	8H	17.7	18.9	18.1	19.3	19.7	17.7	19.0	18.1	19.3	19.7
	12H	17.8	19.0	18.2	19.4	19.8	17.8	19.0	18.2	19.4	19.8

UGR Viewed Endwise

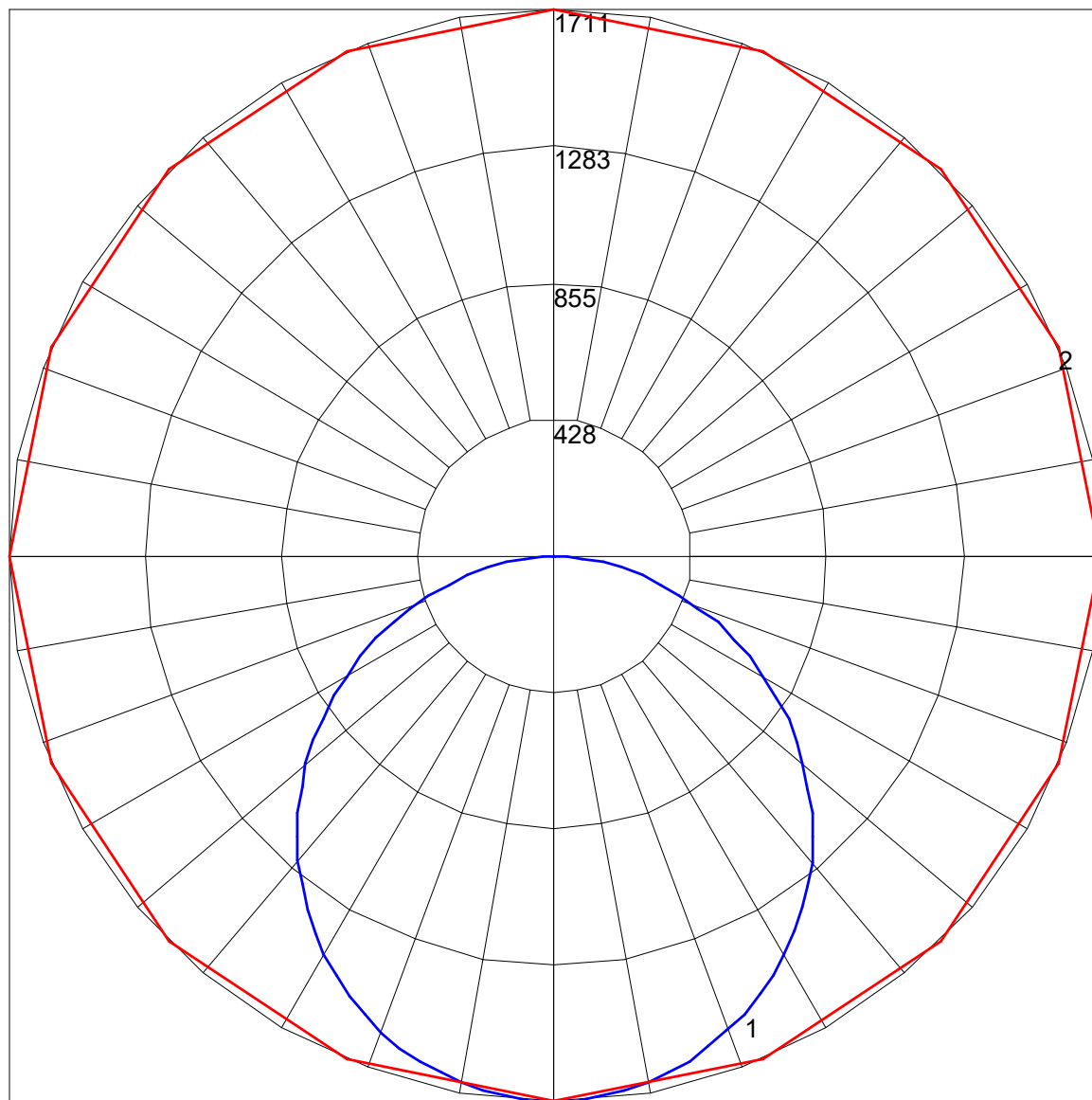
4H	2H	15.0	16.4	15.4	16.8	17.1	15.0	16.4	15.4	16.8	17.1
	3H	17.1	18.3	17.5	18.7	19.1	17.1	18.3	17.5	18.7	19.1
	4H	18.0	19.0	18.4	19.4	19.9	18.0	19.0	18.4	19.4	19.9
	6H	18.6	19.6	19.1	20.0	20.5	18.6	19.6	19.1	20.0	20.5
	8H	18.9	19.8	19.4	20.2	20.7	18.9	19.8	19.4	20.2	20.7
	12H	19.1	19.9	19.6	20.3	20.8	19.1	19.9	19.6	20.3	20.8

8H	4H	18.3	19.2	18.8	19.6	20.1	18.3	19.2	18.8	19.6	20.1
	6H	19.1	19.9	19.6	20.3	20.8	19.1	19.9	19.6	20.3	20.8
	8H	19.4	20.1	20.0	20.6	21.1	19.4	20.1	20.0	20.6	21.1
	12H	19.7	20.3	20.2	20.8	21.3	19.7	20.3	20.2	20.8	21.3

12H	4H	18.3	19.1	18.8	19.6	20.1	18.3	19.1	18.8	19.6	20.1
	6H	19.2	19.9	19.7	20.3	20.9	19.2	19.9	19.7	20.3	20.9
	8H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 1710.781 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.)