



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHTLOTIIWT40120-277V-P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 3896  
 [TESTLAB] TUV SUD America  
 [ISSUEDATE] 6/10/2020 9:41:48 AM  
 [MANUFAC] BEGHELLI NORTH AMERICA  
 [LUMCAT] BL736LEDHTLOTIIWT40120-277V-P  
 [LUMINAIRE] 8150-1

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20082
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	150
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.44
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.33 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.33 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	169258	84508	18521
55	69060	61011	1366
65	2798	4310	671
75	1075	926	431
85	597	295	107

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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	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985
2.5	11909.477	11489.022	11138.594	10334.262	9891.356	9556.976	8897.013	8651.639	8944.459	8651.639
5.0	13116.074	12845.225	11901.213	10933.505	9520.322	8339.470	7765.798	7237.576	7516.301	7237.576
7.5	12793.444	13034.507	12633.338	10994.434	9211.975	7576.357	6421.775	5835.836	6020.055	5835.836
10.0	12487.980	12597.436	12453.480	11255.284	9025.742	7044.928	5427.027	4429.403	4541.994	4429.403
12.5	12380.945	12208.743	12088.400	11908.607	9027.005	6412.055	4418.543	3051.641	2934.461	3051.641
15.0	12192.356	11964.292	11806.567	12051.736	8663.396	5557.564	3350.552	2333.492	2236.910	2333.492
17.5	12372.649	11726.863	11634.179	11494.315	8326.868	5022.678	2445.839	1835.396	1713.758	1835.396
20.0	12856.684	11783.023	11270.340	11252.786	7894.199	4216.150	1947.375	1391.528	1256.290	1391.528
22.5	14332.816	12326.507	11010.395	10245.980	7507.823	3332.335	1517.123	1276.704	1198.166	1276.704
25.0	18770.184	13819.704	10623.086	10041.901	7058.043	2750.612	1238.618	1227.957	1290.614	1227.957
27.5	19540.562	17316.745	10588.705	9119.574	6873.451	2029.759	1066.885	1231.678	1243.775	1231.678
30.0	19992.481	18351.005	11009.709	8634.050	6164.512	1348.164	975.939	1211.861	1309.142	1211.861
32.5	22134.729	18682.095	12653.729	130.723	5755.570	958.397	919.553	1193.949	1272.065	1193.949
35.0	21950.440	19931.600	13015.432	7535.432	5078.525	717.152	876.997	1296.012	1418.999	1296.012
37.5	24835.249	19773.835	13295.948	6664.498	4451.173	567.577	823.284	1371.796	1463.711	1371.796
40.0	21602.397	20944.791	13384.076	5994.363	3741.181	501.272	823.217	1417.148	1434.841	1417.148
42.5	24900.629	19776.997	12197.112	5679.440	3281.594	450.369	833.514	1291.726	1346.011	1291.726
45.0	24571.467	20550.779	13278.286	5286.458	2688.680	416.583	843.396	1142.637	1182.553	1142.637
47.5	20984.232	19981.784	11258.990	4367.323	1647.486	335.458	836.501	1023.660	1093.716	1023.660
50.0	21519.074	18029.090	11818.106	3165.139	982.685	260.171	755.544	901.388	923.920	901.388
52.5	14128.823	17979.211	10111.396	2182.829	405.135	203.533	692.675	746.228	772.085	746.228
55.0	8824.545	12055.566	8640.911	1134.367	174.569	171.254	613.440	548.473	539.318	548.473
57.5	5769.259	6972.699	7172.469	577.488	123.458	134.487	495.281	408.711	452.230	408.711
60.0	3325.685	4169.300	4121.837	352.718	101.520	105.508	359.083	334.830	392.452	334.830
62.5	1372.424	2166.232	1862.467	217.092	85.192	74.569	240.239	284.617	331.574	284.617
65.0	298.040	776.374	525.103	137.159	71.415	53.044	149.027	211.356	227.617	211.356
67.5	186.158	232.259	194.825	93.348	61.250	40.233	110.751	125.002	119.914	125.002
70.0	146.941	164.595	145.145	74.120	52.191	30.310	76.201	42.957	34.607	42.957
72.5	137.140	136.268	112.921	59.520	44.064	23.480	42.417	17.792	18.981	17.792
75.0	88.175	109.191	91.044	47.255	35.350	17.749	17.334	12.965	14.499	12.965
77.5	59.603	78.228	70.959	36.543	26.609	12.878	10.604	10.168	13.021	10.168
80.0	56.768	60.732	51.401	26.641	19.103	8.801	7.577	8.579	12.764	8.579
82.5	65.205	58.074	34.391	17.172	11.644	5.457	5.039	6.780	10.064	6.780
85.0	32.839	34.175	21.168	9.253	5.873	2.712	2.643	3.071	5.144	3.071
87.5	4.030	7.412	6.355	3.051	1.586	0.547	0.510	0.530	1.688	0.530
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. 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	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985	10058.985
2.5	8897.013	9556.976	9891.356	10334.262	11138.594	11489.022	11909.477
5.0	7765.798	8339.470	9520.322	10933.505	11901.213	12845.225	13116.074
7.5	6421.775	7576.357	9211.975	10994.434	12633.338	13034.507	12793.444
10.0	5427.027	7044.928	9025.742	11255.284	12453.480	12597.436	12487.980
12.5	4418.543	6412.055	9027.005	11908.607	12088.400	12208.743	12380.945
15.0	3350.552	5557.564	8663.396	12051.736	11806.567	11964.292	12192.356
17.5	2445.839	5022.678	8326.868	11494.315	11634.179	11726.863	12372.649
20.0	1947.375	4216.150	7894.199	11252.786	11270.340	11783.023	12856.684
22.5	1517.123	3332.335	7507.823	10245.980	11010.395	12326.507	14332.816
25.0	1238.618	2750.612	7058.043	10041.901	110623.086	13819.704	18770.184
27.5	1066.885	2029.759	6873.451	9119.574	10588.705	17316.745	19540.562
30.0	975.939	1348.164	6164.512	8634.050	11009.709	18351.005	19992.481
32.5	919.553	958.397	5755.570	8130.723	12653.729	18682.095	22134.729
35.0	876.997	717.152	5078.525	7535.432	13015.432	19931.600	21950.440
37.5	823.284	567.577	4451.173	6664.498	13295.948	19773.835	24835.249
40.0	823.217	501.272	3741.181	5994.363	13384.076	20944.791	21602.397
42.5	833.514	450.369	3281.594	5679.440	12197.112	19776.997	24900.629
45.0	843.396	416.583	2688.680	5286.458	13278.286	20550.779	24571.467
47.5	836.501	335.458	1647.486	4367.323	11258.990	19981.784	20984.232
50.0	755.544	260.171	982.685	3165.139	11818.106	18029.090	21519.074
52.5	692.675	203.533	405.135	2182.829	10111.396	17979.211	14128.823
55.0	613.440	171.254	174.569	1134.367	8640.911	12055.566	8824.545
57.5	495.281	134.487	123.458	577.488	7172.469	6972.699	5769.259
60.0	359.083	105.508	101.520	352.718	4121.837	4169.300	3325.685
62.5	240.239	74.569	85.192	217.092	1862.467	2166.232	1372.424
65.0	149.027	53.044	71.415	137.159	525.103	776.374	298.040
67.5	110.751	40.233	61.250	93.348	194.825	232.259	186.158
70.0	76.201	30.310	52.191	74.120	145.145	164.595	146.941
72.5	42.417	23.480	44.064	59.520	112.921	136.268	137.140
75.0	17.334	17.749	35.350	47.255	91.044	109.191	88.175
77.5	10.604	12.878	26.609	36.543	70.959	78.228	59.603
80.0	7.577	8.801	19.103	26.641	51.401	60.732	56.768

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**CANDELA TABULATION - (Cont.)**

82.5	5.039	5.457	11.644	17.172	34.391	58.074	65.205
85.0	2.643	2.712	5.873	9.253	21.168	34.175	32.839
87.5	0.510	0.547	1.586	3.051	6.355	7.412	4.030
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	3121.77	N.A.	15.50
0-30	6425.73	N.A.	32.00
0-40	11109.22	N.A.	55.30
0-60	19557.12	N.A.	97.40
0-80	20068.34	N.A.	99.90
0-90	20082.13	N.A.	100.00
10-90	19176.18	N.A.	95.50
20-40	7987.44	N.A.	39.80
20-50	13222.37	N.A.	65.80
40-70	8905.59	N.A.	44.30
60-80	511.22	N.A.	2.50
70-80	53.53	N.A.	0.30
80-90	13.79	N.A.	0.10
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	20082.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	905.95
10-20	2215.83
20-30	3303.96
30-40	4683.48
40-50	5234.93
50-60	3212.97
60-70	457.69
70-80	53.53
80-90	13.79
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

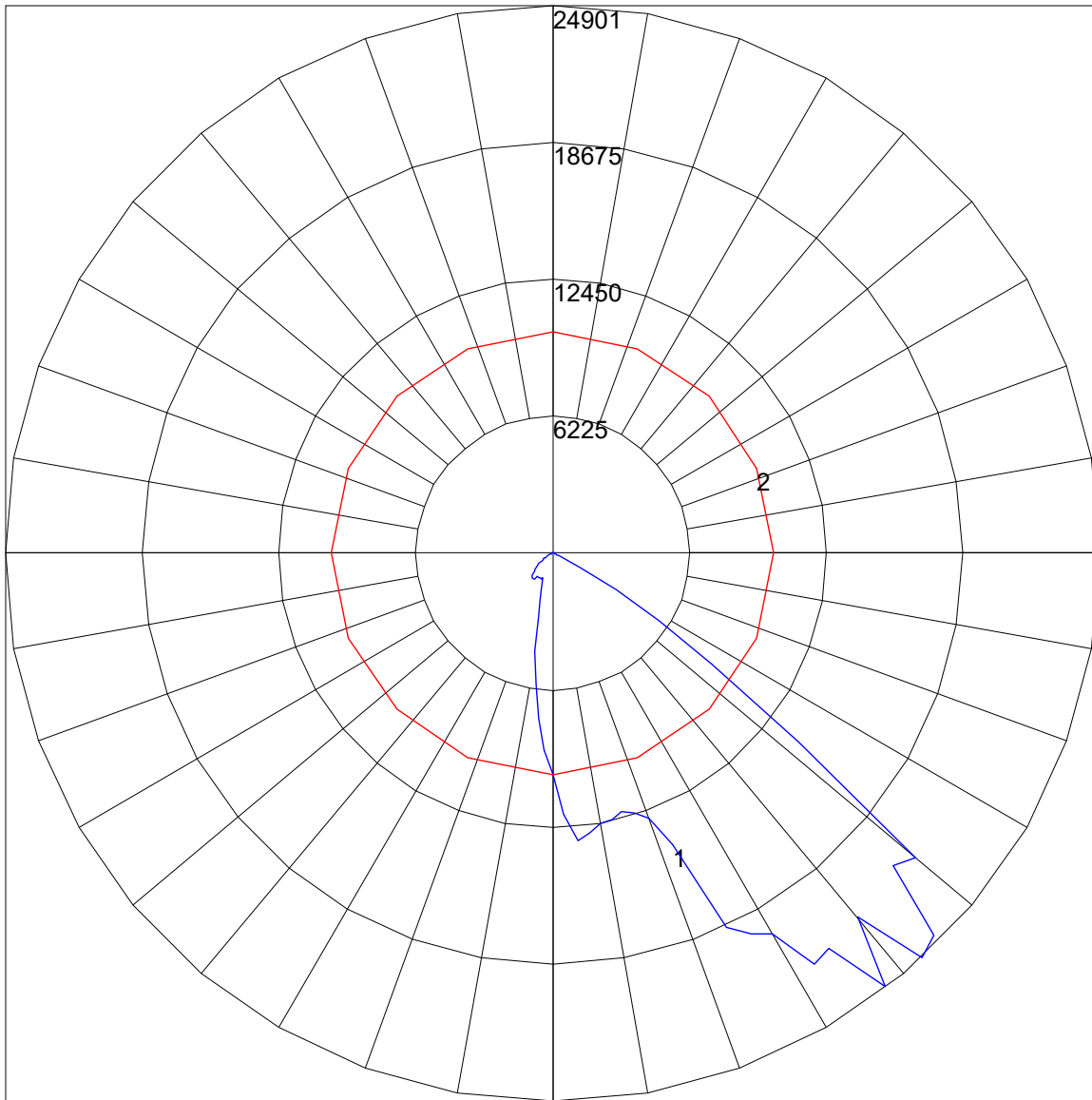
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BL736LEDHTLOTIIWT40120-277V-P.IES**

**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	28.4	29.8	28.7	30.1	30.4	10.4	10.4	10.4	10.4	10.4
	3H	28.2	29.5	28.6	29.8	30.2	10.4	10.4	10.4	10.4	10.4
	4H	28.2	29.4	28.6	29.7	30.1	10.4	10.4	10.4	10.4	10.4
	6H	28.1	29.2	28.5	29.6	30.0	10.4	10.4	10.4	10.4	10.4
	8H	28.1	29.1	28.5	29.5	29.9	10.4	10.4	10.4	10.4	10.4
	12H	28.0	29.0	28.5	29.4	29.8	10.4	10.4	10.4	10.4	10.4
4H	2H	28.2	29.4	28.6	29.7	30.1	10.4	11.0	10.4	11.3	11.7
	3H	28.1	29.0	28.5	29.4	29.8	10.4	10.8	10.4	11.2	11.6
	4H	28.0	28.9	28.5	29.3	29.7	10.4	10.7	10.4	11.1	11.5
	6H	27.9	28.7	28.4	29.1	29.6	10.4	10.5	10.4	11.0	11.4
	8H	27.9	28.6	28.3	29.0	29.5	10.4	10.4	10.4	10.9	11.3
	12H	27.8	28.4	28.3	28.9	29.4	10.4	10.4	10.4	10.8	11.3
8H	4H	27.9	28.6	28.3	29.0	29.5	10.4	10.5	10.4	10.9	11.4
	6H	27.8	28.3	28.3	28.8	29.3	10.4	10.4	10.4	10.8	11.3
	8H	27.7	28.2	28.2	28.7	29.2	10.4	10.4	10.4	10.7	11.2
	12H	27.7	28.1	28.2	28.6	29.2	10.4	10.4	10.4	10.6	11.2
12H	4H	27.8	28.4	28.3	28.9	29.4	10.4	10.4	10.4	10.8	11.3
	6H	27.7	28.2	28.3	28.7	29.2	10.4	10.4	10.4	10.7	11.2
	8H	27.7	28.1	28.2	28.6	29.2	10.4	10.4	10.4	10.6	11.2

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 24900.629 Located At Horizontal Angle = 0, Vertical Angle = 42.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)