



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHOTHOTIIWT40120-277V-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] BL736LEDHOTHOTIIWT40120-277V-P
 [LUMINAIRE] 8150-1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	230
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	259554	129591	28401
55	105903	93560	2095
65	4291	6610	1028
75	1649	1420	661
85	916	452	164

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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	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267
2.5	18262.963	17618.202	17080.827	15847.399	15168.210	14655.446	13643.404	13267.128	13716.162	13267.128
5.0	20113.257	19697.914	18250.289	16766.327	14599.236	12788.422	11908.706	11098.689	11526.107	11098.689
7.5	19618.509	19988.174	19372.989	16859.760	14126.392	11618.203	9847.672	8949.146	9231.643	8949.146
10.0	19150.086	19317.934	19097.181	17259.769	13840.808	10803.266	8322.245	6792.407	6965.064	6792.407
12.5	18985.950	18721.880	18537.338	18261.627	13842.744	9832.767	6775.754	4679.635	4499.942	4679.635
15.0	18696.752	18347.020	18105.151	18481.113	13285.156	8522.421	5138.009	3578.367	3430.259	3578.367
17.5	18973.227	17982.927	17840.797	17626.319	12769.097	7702.184	3750.649	2814.546	2628.015	2814.546
20.0	19715.486	18069.047	17282.857	17255.939	12105.608	6465.388	2986.263	2133.882	1926.497	2133.882
22.5	21979.107	18902.470	16884.236	15712.021	11513.107	5110.074	2326.480	1957.802	1837.365	1957.802
25.0	28783.729	21192.259	16290.305	15399.069	10823.378	4218.012	1899.398	1883.049	1979.132	1883.049
27.5	29965.089	26554.906	16237.582	13984.698	10540.309	3112.597	1636.048	1888.755	1907.306	1888.755
30.0	30658.099	28140.925	16883.185	13240.155	9453.164	2067.384	1496.584	1858.367	2007.545	1858.367
32.5	33943.196	28648.645	19404.259	12468.312	8826.059	1469.685	1410.117	1830.898	1950.687	1830.898
35.0	33660.592	30564.739	19958.923	11555.445	7787.823	1099.740	1344.859	1987.411	2176.008	1987.411
37.5	38084.393	30322.809	20389.090	10219.884	6825.791	870.369	1262.491	2103.623	2244.573	2103.623
40.0	33126.875	32118.448	20524.232	19224.573	737.031	768.691	1262.387	2173.170	2200.302	2173.170
42.5	38184.652	30327.657	18704.045	8709.316	5032.263	690.632	1278.178	1980.838	2064.083	1980.838
45.0	37679.888	31514.238	20362.006	8106.686	4123.041	638.822	1293.332	1752.212	1813.423	1752.212
47.5	32178.930	30641.694	17265.452	6697.209	2526.389	514.419	1282.758	1569.763	1677.193	1569.763
50.0	32999.100	27647.275	18122.846	4853.682	1506.930	398.967	1158.613	1382.262	1416.814	1382.262
52.5	21666.288	27570.785	15505.637	3347.327	621.267	312.114	1062.204	1144.327	1183.978	1144.327
55.0	13532.276	18486.987	13250.677	1739.530	267.698	262.615	940.699	841.074	827.035	841.074
57.5	8847.051	10692.505	10998.848	885.567	189.320	206.233	759.505	626.751	693.486	626.751
60.0	5099.876	6393.543	6320.760	540.886	155.679	161.794	550.647	513.456	601.817	513.456
62.5	2104.586	3321.877	2856.058	332.907	130.640	114.351	368.402	436.455	508.462	436.455
65.0	457.038	1190.554	805.235	210.330	109.514	81.341	228.529	324.111	349.046	324.111
67.5	285.470	356.165	298.761	143.147	93.925	61.697	169.834	191.688	183.886	191.688
70.0	225.331	252.404	222.578	113.662	80.034	46.479	116.852	65.874	53.070	65.874
72.5	210.301	208.964	173.162	91.273	67.571	36.006	65.046	27.283	29.107	27.283
75.0	135.215	167.443	139.614	72.465	54.208	27.218	26.581	19.882	22.234	19.882
77.5	91.399	119.961	108.815	56.038	40.804	19.748	16.261	15.592	19.967	15.592
80.0	87.052	93.131	78.823	40.853	29.293	13.496	11.619	13.156	19.574	13.156
82.5	99.991	89.055	52.738	26.333	17.855	8.369	7.727	10.398	15.433	10.398
85.0	50.358	52.407	32.461	14.189	9.005	4.159	4.052	4.710	7.887	4.710
87.5	6.180	11.365	9.745	4.679	2.432	0.838	0.782	0.813	2.588	0.813
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. 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	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267	15425.267
2.5	13643.404	14655.446	15168.210	15847.399	17080.827	17618.202	18262.963
5.0	11908.706	12788.422	14599.236	16766.327	18250.289	19697.914	20113.257
7.5	9847.672	11618.203	14126.392	16859.760	19372.989	19988.174	19618.509
10.0	8322.245	10803.266	13840.808	17259.769	19097.181	19317.934	19150.086
12.5	6775.754	9832.767	13842.744	18261.627	18537.338	18721.880	18985.950
15.0	5138.009	8522.421	13285.156	18481.113	18105.151	18347.020	18696.752
17.5	3750.649	7702.184	12769.097	17626.319	17840.797	17982.927	18973.227
20.0	2986.263	6465.388	12105.608	17255.939	17282.857	18069.047	19715.486
22.5	2326.480	5110.074	11513.107	15712.021	16884.236	18902.470	21979.107
25.0	1899.398	4218.012	10823.378	15399.069	16290.305	21192.259	28783.729
27.5	1636.048	3112.597	10540.309	13984.698	16237.582	226554.906	29965.089
30.0	1496.584	2067.384	9453.164	13240.155	16883.185	28140.925	30658.099
32.5	1410.117	1469.685	8826.059	12468.312	19404.259	28648.645	33943.196
35.0	1344.859	1099.740	7787.823	11555.445	19958.923	30564.739	33660.592
37.5	1262.491	870.369	6825.791	10219.884	20389.090	30322.809	38084.393
40.0	1262.387	768.691	5737.031	9192.245	20524.232	32118.448	33126.875
42.5	1278.178	690.632	5032.263	8709.316	18704.045	30327.657	38184.652
45.0	1293.332	638.822	4123.041	8106.686	20362.006	31514.238	37679.888
47.5	1282.758	514.419	2526.389	6697.209	17265.452	30641.694	32178.930
50.0	1158.613	398.967	1506.930	4853.682	18122.846	27647.275	32999.100
52.5	1062.204	312.114	621.267	3347.327	15505.637	27570.785	21666.288
55.0	940.699	262.615	267.698	1739.530	13250.677	18486.987	13532.276
57.5	759.505	206.233	189.320	885.567	10998.848	10692.505	8847.051
60.0	550.647	161.794	155.679	540.886	6320.760	6393.543	5099.876
62.5	368.402	114.351	130.640	332.907	2856.058	3321.877	2104.586
65.0	228.529	81.341	109.514	210.330	805.235	1190.554	457.038
67.5	169.834	61.697	93.925	143.147	298.761	356.165	285.470
70.0	116.852	46.479	80.034	113.662	222.578	252.404	225.331
72.5	65.046	36.006	67.571	91.273	173.162	208.964	210.301
75.0	26.581	27.218	54.208	72.465	139.614	167.443	135.215
77.5	16.261	19.748	40.804	56.038	108.815	119.961	91.399
80.0	11.619	13.496	29.293	40.853	78.823	93.131	87.052

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CANDELA TABULATION - (Cont.)

82.5	7.727	8.369	17.855	26.333	52.738	89.055	99.991
85.0	4.052	4.159	9.005	14.189	32.461	52.407	50.358
87.5	0.782	0.838	2.432	4.679	9.745	11.365	6.180
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	4787.18	N.A.	15.50
0-30	9853.74	N.A.	32.00
0-40	17035.77	N.A.	55.30
0-60	29990.48	N.A.	97.40
0-80	30774.42	N.A.	99.90
0-90	30795.57	N.A.	100.00
10-90	29406.32	N.A.	95.50
20-40	12248.59	N.A.	39.80
20-50	20276.26	N.A.	65.80
40-70	13656.56	N.A.	44.30
60-80	783.94	N.A.	2.50
70-80	82.09	N.A.	0.30
80-90	21.15	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	30795.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1389.25
10-20	3397.93
20-30	5066.56
30-40	7182.03
40-50	8027.67
50-60	4927.04
60-70	701.85
70-80	82.09
80-90	21.15
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

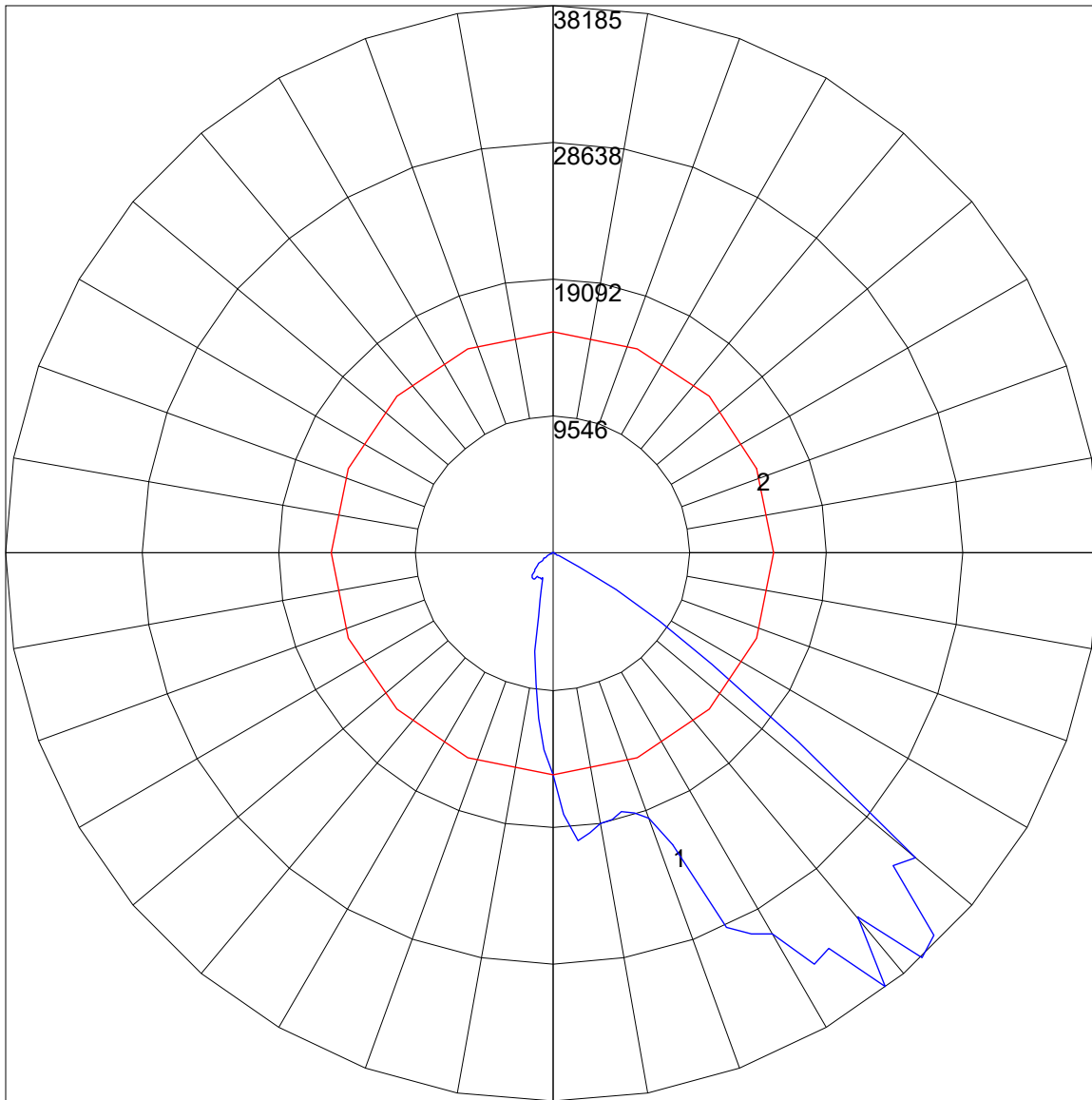
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BL736LEDHOTHOTIIWT40120-277V-P.IES

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	29.9	31.3	30.2	31.6	31.9	11.9	11.9	11.9	11.9	11.9
	3H	29.7	31.0	30.1	31.3	31.7	11.9	11.9	11.9	11.9	11.9
	4H	29.7	30.9	30.1	31.2	31.6	11.9	11.9	11.9	11.9	11.9
	6H	29.6	30.7	30.0	31.1	31.5	11.9	11.9	11.9	11.9	11.9
	8H	29.6	30.6	30.0	31.0	31.4	11.9	11.9	11.9	11.9	11.9
	12H	29.5	30.5	30.0	30.9	31.3	11.9	11.9	11.9	11.9	11.9
4H	2H	29.7	30.9	30.1	31.2	31.6	11.9	12.5	11.9	12.8	13.2
	3H	29.6	30.5	30.0	30.9	31.3	11.9	12.3	11.9	12.7	13.1
	4H	29.5	30.4	30.0	30.8	31.2	11.9	12.2	11.9	12.6	13.0
	6H	29.4	30.2	29.9	30.6	31.1	11.9	12.0	11.9	12.5	12.9
	8H	29.4	30.1	29.8	30.5	31.0	11.9	11.9	11.9	12.4	12.8
	12H	29.3	29.9	29.8	30.4	30.9	11.9	11.9	11.9	12.3	12.8
8H	4H	29.4	30.1	29.8	30.5	31.0	11.9	12.0	11.9	12.4	12.9
	6H	29.3	29.8	29.8	30.3	30.8	11.9	11.9	11.9	12.3	12.8
	8H	29.2	29.7	29.7	30.2	30.7	11.9	11.9	11.9	12.2	12.7
	12H	29.2	29.6	29.7	30.1	30.7	11.9	11.9	11.9	12.1	12.7
12H	4H	29.3	29.9	29.8	30.4	30.9	11.9	11.9	11.9	12.3	12.8
	6H	29.2	29.7	29.8	30.2	30.7	11.9	11.9	11.9	12.2	12.7
	8H	29.2	29.6	29.7	30.1	30.7	11.9	11.9	11.9	12.1	12.7

Maximum UGR = 31.9

POLAR GRAPH



Maximum Candela = 38184.652 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)