



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BL736LEDHOTHOTIIIWT40120-277V-P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3897
 [TESTLAB] TUV SUD America
 [ISSUEDATE] 6/10/2020 10:54:53 AM
 [MANUFAC] BEGHELLI NORTH AMERICA
 [LUMCAT] BL736LEDHOTHOTIIIWT40120-277V-P
 [LUMINAIRE] 8151-1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30453
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	230
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.50
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.12
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	186731	77946	25395
55	226913	78138	2170
65	184942	53031	1059
75	8967	7230	734
85	2124	775	197

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	13817.94213817.94213817.94213817.94213817.94213817.94213817.94213817.94213817.94213817.942									
2.5	15601.24016177.27615752.92314622.82714063.44513123.22712081.75011560.61311084.49611560.613									
5.0	18110.56418606.01517340.05315897.25713862.39711669.85710779.6199770.732	8946.986	9770.732							
7.5	19620.55719677.15919074.96516557.22413647.30810926.1609080.171	7527.799	5983.481	7527.799						
10.0	19277.54419229.56119225.60917219.93313543.85010364.8637394.654	4856.762	3231.790	4856.762						
12.5	18740.08718628.82718928.69518100.93713228.0459222.963	5288.928	2783.949	2196.462	2783.949					
15.0	18260.28118061.77418435.98618140.02912655.8407993.220	3477.898	2219.597	2270.595	2219.597					
17.5	17920.64517648.06617667.71317784.16412358.5237198.929	2415.866	2314.526	2477.156	2314.526					
20.0	17621.06017161.28416846.90017096.79811437.8525637.787	2113.781	2607.982	3161.931	2607.982					
22.5	17184.58016748.33216199.27215827.17711155.5554320.011	2088.347	3072.617	3237.818	3072.617					
25.0	17770.87816873.28115378.41915382.17910202.0113509.077	2275.736	3164.875	3178.897	3164.875					
27.5	18767.33517897.37914731.13313887.95210022.0722487.872	2386.824	3081.670	2922.114	3081.670					
30.0	18461.01618016.05813939.85713084.0148932.682	1928.580	2451.743	2853.304	2916.509	2853.304				
32.5	17826.15017078.10913544.08212161.3168344.579	1782.321	2350.786	2792.245	2517.005	2792.245				
35.0	18120.61416155.35113180.59611018.5697475.591	1664.841	2192.541	2491.834	2308.911	2491.834				
37.5	21440.28717595.14312216.3769598.183	6472.219	1562.533	2115.757	2142.400	1706.273	2142.400			
40.0	25786.45721414.30911849.2418275.719	5457.516	1431.435	1880.153	1686.757	1649.388	1686.757			
42.5	29197.41924935.32111616.3497064.263	4712.731	1252.585	1737.250	1482.423	1422.625	1482.423			
45.0	27108.02325043.52612247.2536286.988	3686.697	1058.362	1471.657	1324.571	1354.288	1324.571			
47.5	30120.18725086.57113108.8934892.236	2137.601	903.847	1229.722	1233.382	1315.992	1233.382			
50.0	27540.52124961.38013125.2033075.006	1201.114	625.199	994.905	1164.924	1029.249	1164.924			
52.5	29011.79523642.26312385.2771718.762	520.300	428.950	853.041	916.891	700.783	916.891			
55.0	28994.96023869.42911066.503826.690	277.317	277.458	762.073	620.007	522.861	620.007			
57.5	26800.49422248.1569431.460	495.603	194.616	184.445	610.975	456.954	511.318	456.954		
60.0	23262.70819597.1408437.079	370.220	154.747	134.576	439.726	420.835	519.272	420.835		
62.5	22600.02918148.5687593.131	280.946	131.128	105.826	289.716	407.176	423.073	407.176		
65.0	19697.46216093.9706460.636	211.430	112.741	88.780	189.263	322.539	255.160	322.539		
67.5	12941.69611827.4875222.194	166.290	98.014	71.844	149.677	191.652	91.895	191.652		
70.0	3884.277	4510.101	3843.632	134.072	84.879	56.562	115.433	73.699	58.205	73.699
72.5	1618.491	1528.552	1862.431	107.550	73.467	45.282	67.338	45.625	53.679	45.625
75.0	735.259	630.824	710.884	86.915	60.161	34.839	34.264	39.657	48.367	39.657
77.5	396.581	332.831	263.336	67.429	46.381	25.201	22.964	31.028	32.389	31.028
80.0	260.765	222.066	145.544	49.597	33.125	17.722	15.847	19.738	19.516	19.738
82.5	179.667	147.247	94.516	33.387	20.947	11.028	9.365	10.504	9.798	10.504
85.0	116.794	87.560	55.675	18.962	10.827	5.323	4.617	4.819	3.720	4.819
87.5	63.387	42.409	25.030	6.784	3.034	1.109	0.847	0.685	0.000	0.685
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	13817.94213817	13817.94213817	13817.94213817	13817.94213817	13817.94213817	13817.94213817	13817.94213817
2.5	12081.75013123	12081.75013123	12081.75013123	12081.75013123	12081.75013123	12081.75013123	12081.75013123
5.0	10779.61911669	10779.61911669	10779.61911669	10779.61911669	10779.61911669	10779.61911669	10779.61911669
7.5	9080.171	9080.171	9080.171	9080.171	9080.171	9080.171	9080.171
10.0	7394.654	7394.654	7394.654	7394.654	7394.654	7394.654	7394.654
12.5	5288.928	5288.928	5288.928	5288.928	5288.928	5288.928	5288.928
15.0	3477.898	3477.898	3477.898	3477.898	3477.898	3477.898	3477.898
17.5	2415.866	2415.866	2415.866	2415.866	2415.866	2415.866	2415.866
20.0	2113.781	2113.781	2113.781	2113.781	2113.781	2113.781	2113.781
22.5	2088.347	2088.347	2088.347	2088.347	2088.347	2088.347	2088.347
25.0	2275.736	2275.736	2275.736	2275.736	2275.736	2275.736	2275.736
27.5	2386.824	2386.824	2386.824	2386.824	2386.824	2386.824	2386.824
30.0	2451.743	2451.743	2451.743	2451.743	2451.743	2451.743	2451.743
32.5	2350.786	2350.786	2350.786	2350.786	2350.786	2350.786	2350.786
35.0	2192.541	2192.541	2192.541	2192.541	2192.541	2192.541	2192.541
37.5	2115.757	2115.757	2115.757	2115.757	2115.757	2115.757	2115.757
40.0	1880.153	1880.153	1880.153	1880.153	1880.153	1880.153	1880.153
42.5	1737.250	1737.250	1737.250	1737.250	1737.250	1737.250	1737.250
45.0	1471.657	1471.657	1471.657	1471.657	1471.657	1471.657	1471.657
47.5	1229.722	1229.722	1229.722	1229.722	1229.722	1229.722	1229.722
50.0	994.905	994.905	994.905	994.905	994.905	994.905	994.905
52.5	853.041	853.041	853.041	853.041	853.041	853.041	853.041
55.0	762.073	762.073	762.073	762.073	762.073	762.073	762.073
57.5	610.975	610.975	610.975	610.975	610.975	610.975	610.975
60.0	439.726	439.726	439.726	439.726	439.726	439.726	439.726
62.5	289.716	289.716	289.716	289.716	289.716	289.716	289.716
65.0	189.263	189.263	189.263	189.263	189.263	189.263	189.263
67.5	149.677	149.677	149.677	149.677	149.677	149.677	149.677
70.0	115.433	115.433	115.433	115.433	115.433	115.433	115.433
72.5	67.338	67.338	67.338	67.338	67.338	67.338	67.338
75.0	34.264	34.264	34.264	34.264	34.264	34.264	34.264
77.5	22.964	22.964	22.964	22.964	22.964	22.964	22.964
80.0	15.847	15.847	15.847	15.847	15.847	15.847	15.847

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CANDELA TABULATION - (Cont.)

82.5	9.365	11.028	20.947	33.387	94.516	147.247	179.667
85.0	4.617	5.323	10.827	18.962	55.675	87.560	116.794
87.5	0.847	1.109	3.034	6.784	25.030	42.409	63.387
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	4528.33	N.A.	14.90
0-30	8992.3	N.A.	29.50
0-40	14176.85	N.A.	46.60
0-60	26211.6	N.A.	86.10
0-80	30415.98	N.A.	99.90
0-90	30453.49	N.A.	100.00
10-90	29156.52	N.A.	95.70
20-40	9648.52	N.A.	31.70
20-50	15940.3	N.A.	52.30
40-70	15804.66	N.A.	51.90
60-80	4204.38	N.A.	13.80
70-80	434.46	N.A.	1.40
80-90	37.51	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	30453.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1296.97
10-20	3231.36
20-30	4463.97
30-40	5184.55
40-50	6291.78
50-60	5742.98
60-70	3769.91
70-80	434.46
80-90	37.51
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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

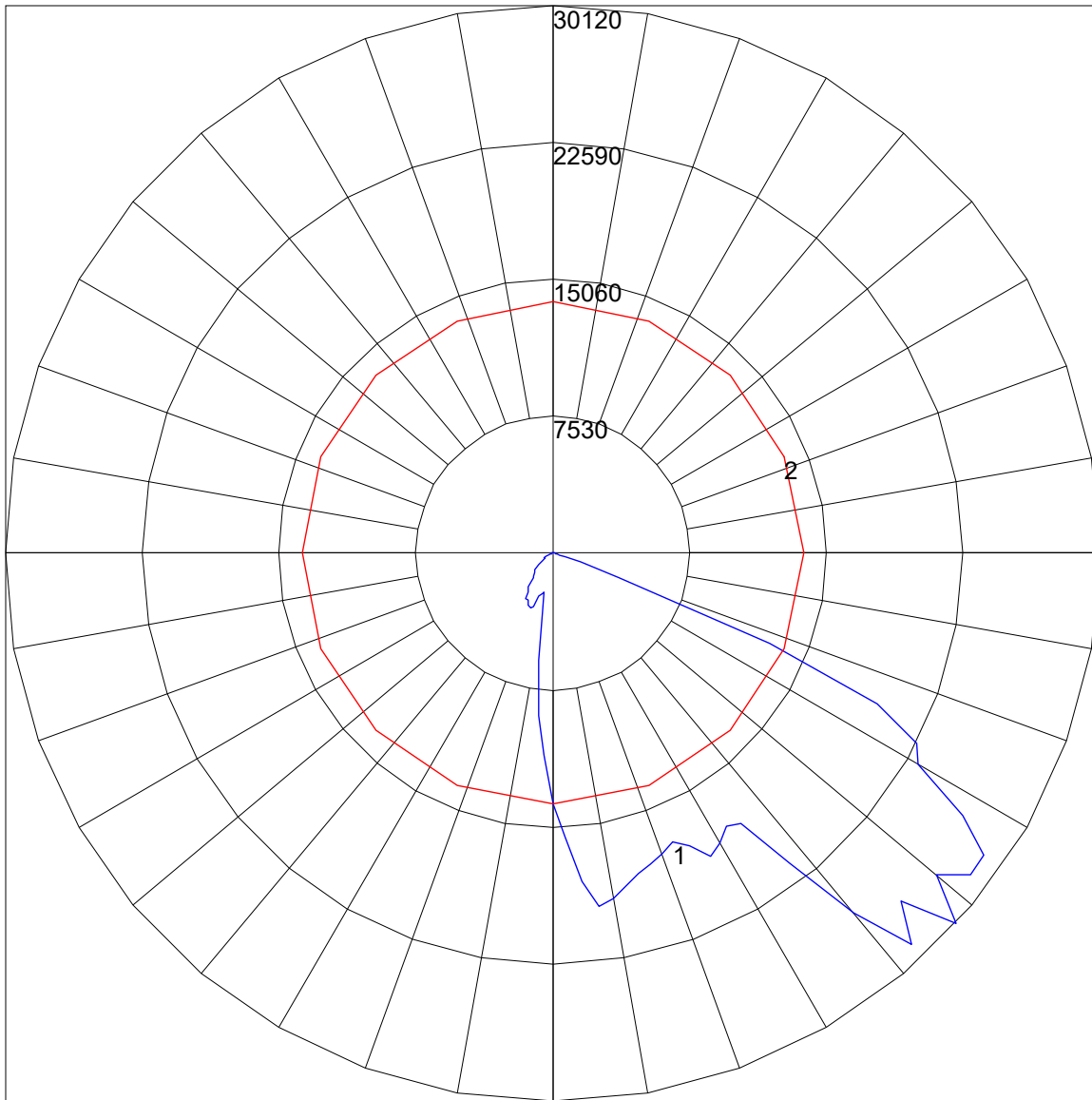
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BL736LEDHOTHOTIIIWT40120-277V-P.IES

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	35.5	37.1	35.8	37.4	37.7	11.9	11.9	11.9	11.9	11.9
	3H	36.1	37.6	36.5	37.9	38.2	11.9	11.9	11.9	11.9	11.9
	4H	36.1	37.4	36.5	37.8	38.1	11.9	11.9	11.9	11.9	11.9
	6H	36.0	37.3	36.4	37.6	38.0	11.9	11.9	11.9	11.9	11.9
	8H	36.0	37.2	36.4	37.6	38.0	11.9	11.9	11.9	11.9	11.9
	12H	36.0	37.1	36.4	37.5	37.9	11.9	11.9	11.9	11.9	11.9
4H	2H	35.4	36.8	35.8	37.1	37.5	21.1	22.5	21.5	22.8	23.2
	3H	36.1	37.2	36.5	37.6	38.0	21.3	22.4	21.7	22.8	23.2
	4H	36.1	37.0	36.5	37.4	37.9	21.2	22.2	21.7	22.6	23.1
	6H	36.0	36.9	36.5	37.3	37.8	21.2	22.0	21.6	22.5	22.9
	8H	36.0	36.8	36.4	37.2	37.7	21.1	21.9	21.6	22.4	22.8
	12H	35.9	36.6	36.4	37.1	37.6	21.1	21.8	21.6	22.3	22.8
8H	4H	36.0	36.8	36.4	37.2	37.7	21.5	22.3	22.0	22.7	23.2
	6H	35.9	36.5	36.4	37.0	37.5	21.4	22.1	21.9	22.6	23.0
	8H	35.9	36.4	36.4	36.9	37.4	21.4	22.0	21.9	22.5	23.0
	12H	35.8	36.3	36.4	36.8	37.4	21.4	21.9	21.9	22.4	22.9
12H	4H	35.9	36.6	36.4	37.1	37.6	21.5	22.2	22.0	22.7	23.1
	6H	35.9	36.4	36.4	36.9	37.4	21.4	22.0	21.9	22.4	23.0
	8H	35.8	36.3	36.4	36.8	37.4	21.4	21.9	21.9	22.4	22.9

Maximum UGR = 38.2

POLAR GRAPH



Maximum Candela = 30120.187 Located At Horizontal Angle = 0, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)