



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-8-835-U10-XX-N.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA001669-012_modified to 8ft length
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 4/6/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] BASE-8-835-U10-SM-N
 [LUMINAIRE] BASE Line LED fixture, 8' Length, 3500K, Narrow Optic Reflectors, No Lens
 [LAMP] 360 LEDs on four white Osram PrevaLED LED boards
 [BALLAST] Two Osram OTi85/120-277/2A3 DIM L HB LED driver labeled as 1470mA
 [OTHER] -
 [OTHER] This test was performed using the absolute method of photometry.
 [MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25253
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	156.08
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.58 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	157376	63785	55860
55	151691	53715	12578
65	139468	2738	429
75	112990	1490	351
85	57789	2863	781

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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>
0.0	14362	14362	14362	14362	14362
0.5	14360	14360	14364	14370	14376
1.0	14358	14358	14366	14382	14392
1.5	14360	14360	14378	14406	14422
2.0	14374	14374	14408	14464	14502
2.5	14396	14400	14466	14584	14640
3.0	14408	14418	14550	14732	14808
3.5	14402	14426	14658	14902	15004
4.0	14376	14418	14770	15100	15240
4.5	14328	14408	14890	15336	15520
5.0	14256	14386	15016	15612	15862
5.5	14240	14432	15162	15874	16178
6.0	14232	14484	15316	16162	16510
6.5	14220	14540	15488	16462	16796
7.0	14208	14592	15676	16726	17026
7.5	14190	14644	15882	16952	17150
8.0	14170	14700	16100	17086	17144
8.5	14156	14758	16326	17114	16966
9.0	14138	14812	16516	17008	16640
9.5	14112	14866	16692	16764	16142
10.0	14094	14932	16824	16366	15480
10.5	14066	15000	16906	15832	14786
11.0	14048	15070	16906	15188	14098
11.5	14026	15142	16832	14532	13436
12.0	14006	15220	16670	13900	12846
12.5	13986	15300	16428	13298	12298
13.0	13962	15386	16096	12744	11808
13.5	13920	15474	15670	12232	11428
14.0	13888	15568	15196	11786	11122
14.5	13852	15670	14670	11412	10878
15.0	13820	15766	14162	11112	10694
15.5	13790	15858	13656	10868	10550
16.0	13756	15940	13178	10680	10458
16.5	13718	16018	12710	10524	10462
17.0	13680	16088	12292	10410	10628
17.5	13654	16142	11882	10356	11068
18.0	13606	16178	11522	10418	11650
18.5	13566	16202	11216	10636	12180
19.0	13534	16202	10948	11108	12658
19.5	13494	16176	10722	11630	13024
20.0	13444	16122	10528	12102	13350
20.5	13404	16046	10364	12524	13632
21.0	13352	15934	10228	12856	13866
21.5	13310	15792	10116	13146	14142
22.0	13258	15620	10026	13412	14214
22.5	13208	15428	9988	13616	13830
23.0	13150	15198	10026	13870	13238
23.5	13098	14924	10168	14002	12562
24.0	13042	14636	10460	13746	11880
24.5	12974	14312	10856	13212	11266
25.0	12918	13984	11226	12624	10752
25.5	12854	13636	11578	11954	10304
26.0	12794	13296	11888	11362	9868
26.5	12738	12958	12132	10822	9378

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27.0	12672	12626	12356	10368	8834
27.5	12608	12306	12548	9974	8244
28.0	12550	11976	12702	9544	7630
28.5	12492	11668	12848	9076	7070
29.0	12430	11364	13034	8534	6600
29.5	12370	11080	13112	7968	6252
30.0	12304	10798	12962	7384	5970
30.5	12238	10532	12578	6866	5734
31.0	12164	10284	12106	6428	5518
31.5	12100	10062	11586	6104	5348
32.0	12034	9858	11048	5838	5234
32.5	11962	9658	10546	5602	5142
33.0	11884	9486	10094	5400	5064
33.5	11808	9326	9684	5226	4988
34.0	11730	9176	9332	5106	4914
34.5	11652	9036	8984	5014	4838
35.0	11572	8908	8606	4938	4762
35.5	11490	8790	8190	4862	4686
36.0	11410	8680	7736	4790	4612
36.5	11322	8580	7254	4716	4538
37.0	11244	8502	6768	4642	4464
37.5	11168	8444	6310	4570	4392
38.0	11086	8420	5916	4496	4320
38.5	11006	8436	5604	4424	4248
39.0	10924	8518	5346	4350	4178
39.5	10838	8662	5130	4280	4112
40.0	10752	8842	4930	4208	4042
40.5	10666	9030	4758	4140	3978
41.0	10576	9216	4614	4072	3918
41.5	10480	9392	4506	4002	3856
42.0	10386	9540	4422	3936	3798
42.5	10292	9636	4346	3868	3742
43.0	10196	9732	4270	3806	3686
43.5	10096	9822	4198	3744	3634
44.0	10002	9872	4124	3686	3582
44.5	9902	9896	4050	3630	3532
45.0	9810	9930	3976	3576	3482
45.5	9716	9968	3902	3524	3434
46.0	9618	9968	3828	3470	3384
46.5	9522	9886	3756	3420	3336
47.0	9422	9686	3686	3370	3288
47.5	9320	9368	3614	3320	3240
48.0	9216	8996	3544	3270	3192
48.5	9108	8612	3478	3222	3144
49.0	8998	8192	3410	3172	3096
49.5	8894	7808	3346	3122	3050
50.0	8784	7460	3284	3072	3002
50.5	8678	7128	3220	3022	2956
51.0	8568	6832	3158	2974	2908
51.5	8458	6544	3098	2924	2862
52.0	8356	6264	3042	2876	2812
52.5	8242	5958	2984	2826	2738
53.0	8134	5636	2928	2778	2592
53.5	8020	5274	2872	2728	2280
54.0	7904	4902	2820	2678	1784
54.5	7790	4540	2768	2616	1154

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55.0	7670	4190	2716	2506	636
55.5	7558	3898	2664	2268	356
56.0	7438	3654	2612	1840	180
56.5	7324	3454	2562	1246	114
57.0	7204	3276	2512	692	98
57.5	7090	3120	2462	386	82
58.0	6968	2982	2412	196	64
58.5	6842	2878	2362	120	44
59.0	6720	2796	2314	106	36
59.5	6594	2724	2264	86	32
60.0	6470	2650	2214	70	28
60.5	6346	2578	2166	52	26
61.0	6226	2506	2116	44	24
61.5	6096	2434	2052	40	22
62.0	5972	2364	1920	36	22
62.5	5840	2296	1628	34	20
63.0	5712	2226	1156	32	20
63.5	5588	2160	640	30	18
64.0	5462	2090	320	30	18
64.5	5332	2022	156	28	16
65.0	5196	1956	102	28	16
65.5	5068	1894	88	26	16
66.0	4936	1832	74	26	14
66.5	4810	1772	60	26	14
67.0	4678	1710	54	24	12
67.5	4540	1654	50	24	12
68.0	4410	1598	48	26	12
68.5	4284	1546	46	28	10
69.0	4150	1496	44	28	10
69.5	4012	1442	42	26	10
70.0	3882	1392	42	26	10
70.5	3750	1338	40	26	10
71.0	3616	1288	40	26	8
71.5	3486	1240	38	26	8
72.0	3356	1192	38	24	8
72.5	3222	1142	36	24	8
73.0	3098	1090	36	24	8
73.5	2962	1038	36	24	8
74.0	2836	934	34	24	8
74.5	2702	662	34	22	8
75.0	2578	286	34	22	8
75.5	2448	110	34	22	8
76.0	2324	72	32	22	8
76.5	2202	64	32	20	6
77.0	2078	54	32	20	6
77.5	1960	50	30	20	6
78.0	1842	48	30	20	6
78.5	1722	46	30	20	6
79.0	1606	44	30	18	6
79.5	1490	44	28	18	6
80.0	1380	42	28	18	6
80.5	1270	40	28	18	6
81.0	1166	40	26	18	6
81.5	1068	38	26	16	6
82.0	966	38	26	16	6
82.5	872	38	24	16	6

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83.0	778	36	24	16	6
83.5	688	34	24	16	6
84.0	602	34	22	14	6
84.5	522	32	22	14	6
85.0	444	30	22	14	6
85.5	374	28	22	14	4
86.0	308	28	20	14	6
86.5	246	26	20	14	4
87.0	190	24	20	14	4
87.5	134	24	20	14	4
88.0	84	22	18	14	4
88.5	40	22	18	14	4
89.0	28	20	18	14	4
89.5	14	20	18	14	4
90.0	0	18	16	12	4
90.5	0	16	16	12	2
91.0	0	16	16	12	2
91.5	0	16	16	12	2
92.0	0	16	16	12	2
92.5	0	14	16	12	2
93.0	0	14	16	12	2
93.5	0	14	14	12	2
94.0	0	14	14	12	2
94.5	2	12	14	12	2
95.0	2	12	14	12	4
95.5	2	12	14	12	4
96.0	2	10	14	12	4
96.5	2	10	14	12	4
97.0	2	10	14	12	4
97.5	2	10	14	12	4
98.0	2	10	12	12	4
98.5	2	10	12	12	4
99.0	2	8	12	10	4
99.5	2	8	12	10	6
100.0	2	8	12	10	6
100.5	2	8	12	10	6
101.0	2	8	12	10	6
101.5	2	8	12	10	6
102.0	2	8	12	10	6
102.5	2	8	10	10	6
103.0	2	8	10	10	8
103.5	2	8	10	10	8
104.0	4	8	10	10	8
104.5	4	8	10	10	8
105.0	4	8	10	10	8
105.5	4	8	10	10	8
106.0	4	8	10	10	8
106.5	4	8	10	10	8
107.0	4	8	10	10	10
107.5	4	8	10	10	10
108.0	4	8	10	10	10
108.5	6	8	10	10	10
109.0	6	8	10	10	10
109.5	6	8	10	10	10
110.0	6	8	10	10	10
110.5	6	8	10	10	10

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CANDELA TABULATION - (Cont.)

111.0	6	8	10	10	12
111.5	6	8	10	10	12
112.0	6	8	10	10	12
112.5	6	8	10	10	12
113.0	6	8	10	10	12
113.5	6	8	10	10	12
114.0	8	10	10	10	12
114.5	8	10	10	10	12
115.0	8	10	10	10	12
115.5	8	10	10	10	12
116.0	8	10	10	10	12
116.5	8	10	10	10	12
117.0	8	10	10	10	12
117.5	8	10	10	10	12
118.0	8	10	10	10	12
118.5	8	10	10	10	12
119.0	8	10	10	10	12
119.5	8	10	10	10	12
120.0	10	10	10	10	12
120.5	10	10	10	10	12
121.0	10	10	10	10	12
121.5	10	10	10	10	12
122.0	10	10	10	10	12
122.5	10	10	10	10	12
123.0	10	10	10	10	12
123.5	10	10	10	10	12
124.0	10	10	10	10	12
124.5	10	10	10	10	12
125.0	10	10	10	10	12
125.5	12	10	10	10	12
126.0	12	10	10	10	12
126.5	12	10	10	10	12
127.0	12	10	10	10	12
127.5	12	10	10	10	12
128.0	12	10	10	10	12
128.5	12	10	10	10	12
129.0	12	10	10	10	12
129.5	12	10	10	10	12
130.0	12	10	10	10	12
130.5	12	10	10	10	12
131.0	12	10	10	10	12
131.5	12	10	10	10	12
132.0	12	10	10	10	12
132.5	12	10	10	10	12
133.0	12	10	10	10	12
133.5	12	10	10	10	12
134.0	12	10	10	10	12
134.5	12	10	10	10	12
135.0	12	10	10	10	12
135.5	12	10	10	10	12
136.0	12	10	10	10	12
136.5	12	10	10	10	12
137.0	12	10	10	10	12
137.5	12	10	10	10	12
138.0	12	10	10	10	12
138.5	12	10	10	10	12

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CANDELA TABULATION - (Cont.)

139.0	12	10	10	10	12
139.5	12	10	10	10	12
140.0	12	10	10	10	12
140.5	12	10	10	10	10
141.0	12	10	10	10	12
141.5	12	10	10	10	10
142.0	12	10	10	10	10
142.5	12	10	10	10	10
143.0	12	10	10	10	10
143.5	10	10	10	10	10
144.0	12	10	10	10	10
144.5	10	10	10	10	10
145.0	12	10	10	10	10
145.5	10	10	10	10	10
146.0	10	10	10	10	10
146.5	10	10	10	10	10
147.0	10	10	10	10	10
147.5	12	10	10	10	10
148.0	12	10	10	10	10
148.5	10	10	10	10	10
149.0	12	10	10	10	10
149.5	10	10	10	10	10
150.0	10	10	10	10	12
150.5	10	10	10	10	12
151.0	10	10	10	10	12
151.5	10	10	10	10	12
152.0	10	10	10	10	12
152.5	10	10	10	10	12
153.0	10	10	10	10	12
153.5	10	10	10	10	12
154.0	10	10	10	10	12
154.5	10	10	10	10	12
155.0	10	10	10	12	12
155.5	10	10	10	12	12
156.0	10	10	10	12	12
156.5	10	10	10	12	12
157.0	10	10	10	12	12
157.5	10	10	12	12	12
158.0	12	10	12	12	12
158.5	12	12	12	12	12
159.0	12	12	12	12	12
159.5	12	12	12	12	12
160.0	12	12	12	12	12
160.5	12	12	12	12	12
161.0	12	12	12	12	12
161.5	12	12	12	12	12
162.0	12	12	12	12	12
162.5	12	12	12	12	12
163.0	12	12	12	14	14
163.5	12	12	12	14	14
164.0	12	12	12	14	14
164.5	14	12	12	14	14
165.0	12	12	14	14	14
165.5	14	14	14	14	14
166.0	14	14	14	14	14
166.5	14	14	14	14	14

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CANDELA TABULATION - (Cont.)

167.0	14	14	14	14	14
167.5	14	14	14	14	14
168.0	14	14	14	14	14
168.5	14	14	14	14	14
169.0	14	14	14	14	14
169.5	14	14	14	14	14
170.0	14	14	14	14	16
170.5	14	14	14	16	16
171.0	14	14	14	16	16
171.5	14	14	14	16	16
172.0	14	14	14	16	16
172.5	14	14	14	16	16
173.0	14	14	14	16	16
173.5	14	14	14	16	16
174.0	14	14	14	16	16
174.5	14	14	14	16	16
175.0	14	14	14	16	16
175.5	14	14	14	16	16
176.0	14	14	14	14	16
176.5	14	14	14	14	16
177.0	14	14	14	14	14
177.5	14	14	14	14	14
178.0	14	14	14	14	14
178.5	14	14	14	14	14
179.0	14	14	14	14	14
179.5	14	14	14	14	14
180.0	14	14	14	14	14

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5309.72	N.A.	21.00
0-30	10884.22	N.A.	43.10
0-40	15720.45	N.A.	62.30
0-60	23283.1	N.A.	92.20
0-80	25099.5	N.A.	99.40
0-90	25189.74	N.A.	99.70
10-90	23716.22	N.A.	93.90
20-40	10410.73	N.A.	41.20
20-50	14961.26	N.A.	59.20
40-70	8871.61	N.A.	35.10
60-80	1816.4	N.A.	7.20
70-80	507.44	N.A.	2.00
80-90	90.24	N.A.	0.40
90-110	20.09	N.A.	0.10
90-120	29.72	N.A.	0.10
90-130	39.02	N.A.	0.20
90-150	53.54	N.A.	0.20
90-180	63.60	N.A.	0.30
110-180	43.50	N.A.	0.20
0-180	25253.33	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1473.52
10-20	3836.2
20-30	5574.49
30-40	4836.24
40-50	4550.53
50-60	3012.12
60-70	1308.96
70-80	507.44
80-90	90.24
90-100	11.02
100-110	9.07
110-120	9.63
120-130	9.30
130-140	8.13
140-150	6.39
150-160	4.97
160-170	3.69
170-180	1.39

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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	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	66	58	53	76	65	58	52	63	57	52	62	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

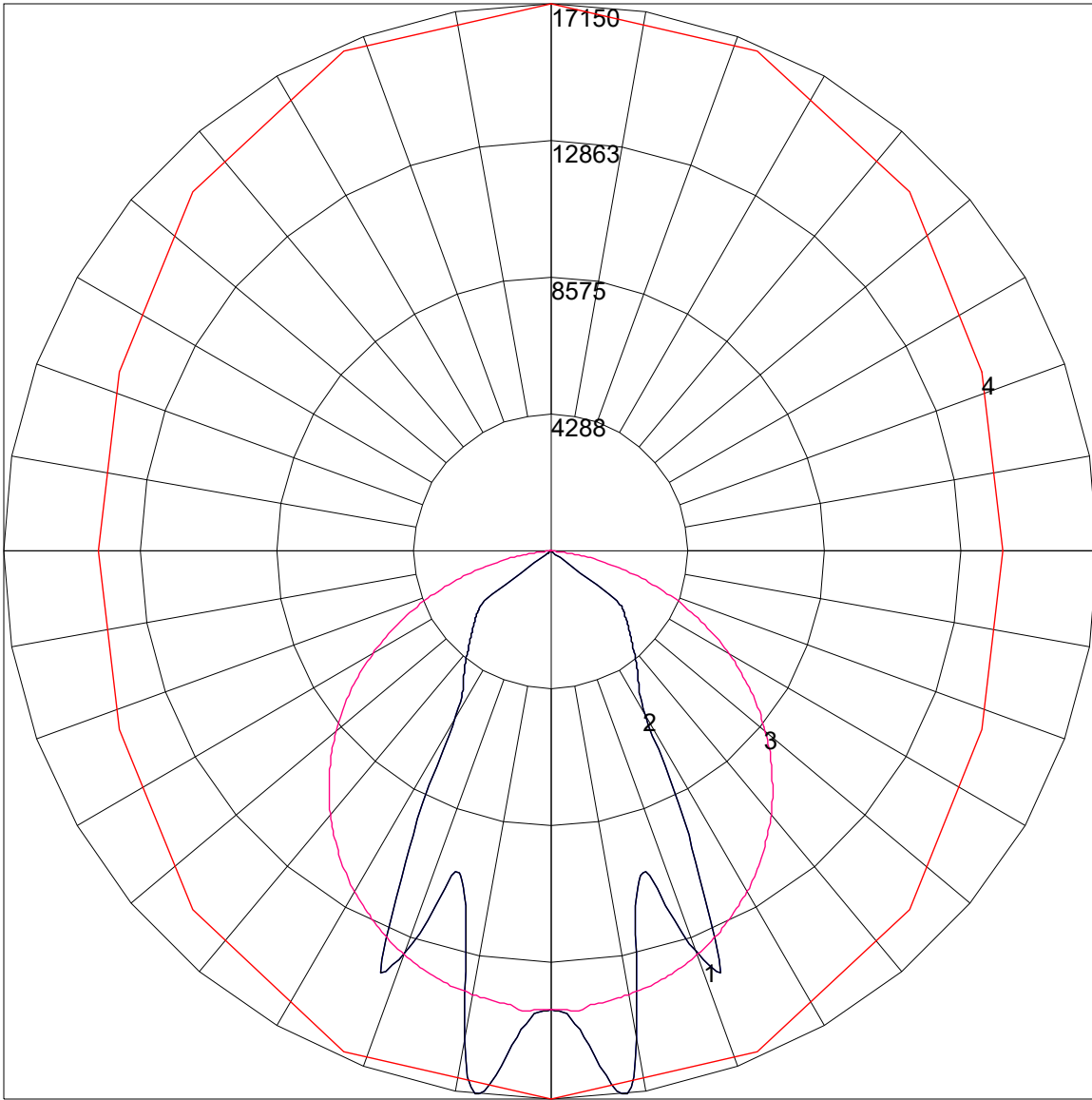
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-8-835-U10-XX-N.IES

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	27.3	28.7	27.7	29.0	29.4	11.2	11.2	11.2	11.2	11.2
	3H	29.8	31.0	30.2	31.4	31.8	11.2	11.2	11.2	11.2	11.2
	4H	30.7	31.8	31.1	32.2	32.6	11.2	11.2	11.2	11.2	11.2
	6H	31.2	32.3	31.6	32.6	33.1	11.2	11.2	11.2	11.2	11.2
	8H	31.4	32.4	31.8	32.8	33.2	11.2	11.2	11.2	11.2	11.2
	12H	31.4	32.4	31.9	32.8	33.3	11.2	11.2	11.2	11.2	11.2
4H	2H	27.1	28.3	27.5	28.6	29.0	11.2	11.2	11.2	11.2	11.2
	3H	29.7	30.6	30.1	31.1	31.5	11.2	11.2	11.2	11.2	11.2
	4H	30.6	31.4	31.0	31.8	32.3	11.2	11.2	11.2	11.2	11.2
	6H	31.1	31.8	31.6	32.3	32.8	11.2	11.2	11.2	11.2	11.2
	8H	31.3	32.0	31.8	32.4	32.9	11.2	11.2	11.2	11.2	11.2
	12H	31.4	32.0	31.9	32.5	33.0	11.2	11.2	11.2	11.2	11.2
8H	4H	30.4	31.1	30.9	31.6	32.1	12.5	13.1	12.9	13.6	14.1
	6H	31.0	31.5	31.5	32.0	32.5	12.4	12.9	12.9	13.5	14.0
	8H	31.2	31.6	31.7	32.2	32.7	12.4	12.9	12.9	13.4	13.9
	12H	31.3	31.7	31.8	32.2	32.8	12.3	12.8	12.9	13.3	13.9
12H	4H	30.4	31.0	30.9	31.5	32.0	12.6	13.2	13.1	13.7	14.2
	6H	30.9	31.4	31.5	31.9	32.4	12.6	13.1	13.1	13.5	14.1
	8H	31.1	31.5	31.6	32.0	32.6	12.5	13.0	13.1	13.5	14.1

Maximum UGR = 33.3

POLAR GRAPH



- Maximum Candela = 17150 Located At Horizontal Angle = 90, Vertical Angle = 7.5
- # 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 - # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
 - # 3 - Vertical Plane Through Horizontal Angles (0 - 180)
 - # 4 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)