



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BASE-4-835-U10-XX-N.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA001669-012  
 [TESTLAB] LightLab International Allentown, LLC  
 [ISSUEDATE] 4/6/2022  
 [MANUFAC] Lux Dynamics  
 [LUMCAT] BASE-4-835-U10-SM-N  
 [LUMINAIRE] BASE Line LED fixture, 4' Length, 3500K, Narrow Optic Reflectors, No Lens  
 [LAMP] 360 LEDs on two white Osram PrevaLED LED boards  
 [BALLAST] One Osram OTi85/120-277/2A3 DIM L HB LED driver labeled as 1470mA  
 [OTHER] 277.0Vac, 60.00Hz, 0.2919A, 78.04W, 0.965PF, 11.3%THD(i)  
 [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	12627
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	78.04
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)	3.79 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	7181	7181	7181	7181	7181
0.5	7180	7180	7182	7185	7188
1.0	7179	7179	7183	7191	7196
1.5	7180	7180	7189	7203	7211
2.0	7187	7187	7204	7232	7251
2.5	7198	7200	7233	7292	7320
3.0	7204	7209	7275	7366	7404
3.5	7201	7213	7329	7451	7502
4.0	7188	7209	7385	7550	7620
4.5	7164	7204	7445	7668	7760
5.0	7128	7193	7508	7806	7931
5.5	7120	7216	7581	7937	8089
6.0	7116	7242	7658	8081	8255
6.5	7110	7270	7744	8231	8398
7.0	7104	7296	7838	8363	8513
7.5	7095	7322	7941	8476	8575
8.0	7085	7350	8050	8543	8572
8.5	7078	7379	8163	8557	8483
9.0	7069	7406	8258	8504	8320
9.5	7056	7433	8346	8382	8071
10.0	7047	7466	8412	8183	7740
10.5	7033	7500	8453	7916	7393
11.0	7024	7535	8453	7594	7049
11.5	7013	7571	8416	7266	6718
12.0	7003	7610	8335	6950	6423
12.5	6993	7650	8214	6649	6149
13.0	6981	7693	8048	6372	5904
13.5	6960	7737	7835	6116	5714
14.0	6944	7784	7598	5893	5561
14.5	6926	7835	7335	5706	5439
15.0	6910	7883	7081	5556	5347
15.5	6895	7929	6828	5434	5275
16.0	6878	7970	6589	5340	5229
16.5	6859	8009	6355	5262	5231
17.0	6840	8044	6146	5205	5314
17.5	6827	8071	5941	5178	5534
18.0	6803	8089	5761	5209	5825
18.5	6783	8101	5608	5318	6090
19.0	6767	8101	5474	5554	6329
19.5	6747	8088	5361	5815	6512
20.0	6722	8061	5264	6051	6675
20.5	6702	8023	5182	6262	6816
21.0	6676	7967	5114	6428	6933
21.5	6655	7896	5058	6573	7071
22.0	6629	7810	5013	6706	7107
22.5	6604	7714	4994	6808	6915
23.0	6575	7599	5013	6935	6619
23.5	6549	7462	5084	7001	6281
24.0	6521	7318	5230	6873	5940
24.5	6487	7156	5428	6606	5633
25.0	6459	6992	5613	6312	5376
25.5	6427	6818	5789	5977	5152
26.0	6397	6648	5944	5681	4934
26.5	6369	6479	6066	5411	4689

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**CANDELA TABULATION - (Cont.)**

27.0	6336	6313	6178	5184	4417
27.5	6304	6153	6274	4987	4122
28.0	6275	5988	6351	4772	3815
28.5	6246	5834	6424	4538	3535
29.0	6215	5682	6517	4267	3300
29.5	6185	5540	6556	3984	3126
30.0	6152	5399	6481	3692	2985
30.5	6119	5266	6289	3433	2867
31.0	6082	5142	6053	3214	2759
31.5	6050	5031	5793	3052	2674
32.0	6017	4929	5524	2919	2617
32.5	5981	4829	5273	2801	2571
33.0	5942	4743	5047	2700	2532
33.5	5904	4663	4842	2613	2494
34.0	5865	4588	4666	2553	2457
34.5	5826	4518	4492	2507	2419
35.0	5786	4454	4303	2469	2381
35.5	5745	4395	4095	2431	2343
36.0	5705	4340	3868	2395	2306
36.5	5661	4290	3627	2358	2269
37.0	5622	4251	3384	2321	2232
37.5	5584	4222	3155	2285	2196
38.0	5543	4210	2958	2248	2160
38.5	5503	4218	2802	2212	2124
39.0	5462	4259	2673	2175	2089
39.5	5419	4331	2565	2140	2056
40.0	5376	4421	2465	2104	2021
40.5	5333	4515	2379	2070	1989
41.0	5288	4608	2307	2036	1959
41.5	5240	4696	2253	2001	1928
42.0	5193	4770	2211	1968	1899
42.5	5146	4818	2173	1934	1871
43.0	5098	4866	2135	1903	1843
43.5	5048	4911	2099	1872	1817
44.0	5001	4936	2062	1843	1791
44.5	4951	4948	2025	1815	1766
45.0	4905	4965	1988	1788	1741
45.5	4858	4984	1951	1762	1717
46.0	4809	4984	1914	1735	1692
46.5	4761	4943	1878	1710	1668
47.0	4711	4843	1843	1685	1644
47.5	4660	4684	1807	1660	1620
48.0	4608	4498	1772	1635	1596
48.5	4554	4306	1739	1611	1572
49.0	4499	4096	1705	1586	1548
49.5	4447	3904	1673	1561	1525
50.0	4392	3730	1642	1536	1501
50.5	4339	3564	1610	1511	1478
51.0	4284	3416	1579	1487	1454
51.5	4229	3272	1549	1462	1431
52.0	4178	3132	1521	1438	1406
52.5	4121	2979	1492	1413	1369
53.0	4067	2818	1464	1389	1296
53.5	4010	2637	1436	1364	1140
54.0	3952	2451	1410	1339	892
54.5	3895	2270	1384	1308	577

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**CANDELA TABULATION - (Cont.)**

55.0	3835	2095	1358	1253	318
55.5	3779	1949	1332	1134	178
56.0	3719	1827	1306	920	90
56.5	3662	1727	1281	623	57
57.0	3602	1638	1256	346	49
57.5	3545	1560	1231	193	41
58.0	3484	1491	1206	98	32
58.5	3421	1439	1181	60	22
59.0	3360	1398	1157	53	18
59.5	3297	1362	1132	43	16
60.0	3235	1325	1107	35	14
60.5	3173	1289	1083	26	13
61.0	3113	1253	1058	22	12
61.5	3048	1217	1026	20	11
62.0	2986	1182	960	18	11
62.5	2920	1148	814	17	10
63.0	2856	1113	578	16	10
63.5	2794	1080	320	15	9
64.0	2731	1045	160	15	9
64.5	2666	1011	78	14	8
65.0	2598	978	51	14	8
65.5	2534	947	44	13	8
66.0	2468	916	37	13	7
66.5	2405	886	30	13	7
67.0	2339	855	27	12	6
67.5	2270	827	25	12	6
68.0	2205	799	24	13	6
68.5	2142	773	23	14	5
69.0	2075	748	22	14	5
69.5	2006	721	21	13	5
70.0	1941	696	21	13	5
70.5	1875	669	20	13	5
71.0	1808	644	20	13	4
71.5	1743	620	19	13	4
72.0	1678	596	19	12	4
72.5	1611	571	18	12	4
73.0	1549	545	18	12	4
73.5	1481	519	18	12	4
74.0	1418	467	17	12	4
74.5	1351	331	17	11	4
75.0	1289	143	17	11	4
75.5	1224	55	17	11	4
76.0	1162	36	16	11	4
76.5	1101	32	16	10	3
77.0	1039	27	16	10	3
77.5	980	25	15	10	3
78.0	921	24	15	10	3
78.5	861	23	15	10	3
79.0	803	22	15	9	3
79.5	745	22	14	9	3
80.0	690	21	14	9	3
80.5	635	20	14	9	3
81.0	583	20	13	9	3
81.5	534	19	13	8	3
82.0	483	19	13	8	3
82.5	436	19	12	8	3

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**CANDELA TABULATION - (Cont.)**

83.0	389	18	12	8	3
83.5	344	17	12	8	3
84.0	301	17	11	7	3
84.5	261	16	11	7	3
85.0	222	15	11	7	3
85.5	187	14	11	7	2
86.0	154	14	10	7	3
86.5	123	13	10	7	2
87.0	95	12	10	7	2
87.5	67	12	10	7	2
88.0	42	11	9	7	2
88.5	20	11	9	7	2
89.0	14	10	9	7	2
89.5	7	10	9	7	2
90.0	0	9	8	6	2
90.5	0	8	8	6	1
91.0	0	8	8	6	1
91.5	0	8	8	6	1
92.0	0	8	8	6	1
92.5	0	7	8	6	1
93.0	0	7	8	6	1
93.5	0	7	7	6	1
94.0	0	7	7	6	1
94.5	1	6	7	6	1
95.0	1	6	7	6	2
95.5	1	6	7	6	2
96.0	1	5	7	6	2
96.5	1	5	7	6	2
97.0	1	5	7	6	2
97.5	1	5	7	6	2
98.0	1	5	6	6	2
98.5	1	5	6	6	2
99.0	1	4	6	5	2
99.5	1	4	6	5	3
100.0	1	4	6	5	3
100.5	1	4	6	5	3
101.0	1	4	6	5	3
101.5	1	4	6	5	3
102.0	1	4	6	5	3
102.5	1	4	5	5	3
103.0	1	4	5	5	4
103.5	1	4	5	5	4
104.0	2	4	5	5	4
104.5	2	4	5	5	4
105.0	2	4	5	5	4
105.5	2	4	5	5	4
106.0	2	4	5	5	4
106.5	2	4	5	5	4
107.0	2	4	5	5	5
107.5	2	4	5	5	5
108.0	2	4	5	5	5
108.5	3	4	5	5	5
109.0	3	4	5	5	5
109.5	3	4	5	5	5
110.0	3	4	5	5	5
110.5	3	4	5	5	5

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CANDELA TABULATION - (Cont.)

111.0	3	4	5	5	6
111.5	3	4	5	5	6
112.0	3	4	5	5	6
112.5	3	4	5	5	6
113.0	3	4	5	5	6
113.5	3	4	5	5	6
114.0	4	5	5	5	6
114.5	4	5	5	5	6
115.0	4	5	5	5	6
115.5	4	5	5	5	6
116.0	4	5	5	5	6
116.5	4	5	5	5	6
117.0	4	5	5	5	6
117.5	4	5	5	5	6
118.0	4	5	5	5	6
118.5	4	5	5	5	6
119.0	4	5	5	5	6
119.5	4	5	5	5	6
120.0	5	5	5	5	6
120.5	5	5	5	5	6
121.0	5	5	5	5	6
121.5	5	5	5	5	6
122.0	5	5	5	5	6
122.5	5	5	5	5	6
123.0	5	5	5	5	6
123.5	5	5	5	5	6
124.0	5	5	5	5	6
124.5	5	5	5	5	6
125.0	5	5	5	5	6
125.5	6	5	5	5	6
126.0	6	5	5	5	6
126.5	6	5	5	5	6
127.0	6	5	5	5	6
127.5	6	5	5	5	6
128.0	6	5	5	5	6
128.5	6	5	5	5	6
129.0	6	5	5	5	6
129.5	6	5	5	5	6
130.0	6	5	5	5	6
130.5	6	5	5	5	6
131.0	6	5	5	5	6
131.5	6	5	5	5	6
132.0	6	5	5	5	6
132.5	6	5	5	5	6
133.0	6	5	5	5	6
133.5	6	5	5	5	6
134.0	6	5	5	5	6
134.5	6	5	5	5	6
135.0	6	5	5	5	6
135.5	6	5	5	5	6
136.0	6	5	5	5	6
136.5	6	5	5	5	6
137.0	6	5	5	5	6
137.5	6	5	5	5	6
138.0	6	5	5	5	6
138.5	6	5	5	5	6

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**CANDELA TABULATION - (Cont.)**

139.0	6	5	5	5	6
139.5	6	5	5	5	6
140.0	6	5	5	5	6
140.5	6	5	5	5	5
141.0	6	5	5	5	6
141.5	6	5	5	5	5
142.0	6	5	5	5	5
142.5	6	5	5	5	5
143.0	6	5	5	5	5
143.5	5	5	5	5	5
144.0	6	5	5	5	5
144.5	5	5	5	5	5
145.0	6	5	5	5	5
145.5	5	5	5	5	5
146.0	5	5	5	5	5
146.5	5	5	5	5	5
147.0	5	5	5	5	5
147.5	6	5	5	5	5
148.0	6	5	5	5	5
148.5	5	5	5	5	5
149.0	6	5	5	5	5
149.5	5	5	5	5	5
150.0	5	5	5	5	6
150.5	5	5	5	5	6
151.0	5	5	5	5	6
151.5	5	5	5	5	6
152.0	5	5	5	5	6
152.5	5	5	5	5	6
153.0	5	5	5	5	6
153.5	5	5	5	5	6
154.0	5	5	5	5	6
154.5	5	5	5	5	6
155.0	5	5	5	6	6
155.5	5	5	5	6	6
156.0	5	5	5	6	6
156.5	5	5	5	6	6
157.0	5	5	5	6	6
157.5	5	5	6	6	6
158.0	6	5	6	6	6
158.5	6	6	6	6	6
159.0	6	6	6	6	6
159.5	6	6	6	6	6
160.0	6	6	6	6	6
160.5	6	6	6	6	6
161.0	6	6	6	6	6
161.5	6	6	6	6	6
162.0	6	6	6	6	6
162.5	6	6	6	6	6
163.0	6	6	6	7	7
163.5	6	6	6	7	7
164.0	6	6	6	7	7
164.5	7	6	6	7	7
165.0	6	6	7	7	7
165.5	7	7	7	7	7
166.0	7	7	7	7	7
166.5	7	7	7	7	7

CANDELA TABULATION - (Cont.)

167.0	7	7	7	7	7
167.5	7	7	7	7	7
168.0	7	7	7	7	7
168.5	7	7	7	7	7
169.0	7	7	7	7	7
169.5	7	7	7	7	7
170.0	7	7	7	7	8
170.5	7	7	7	8	8
171.0	7	7	7	8	8
171.5	7	7	7	8	8
172.0	7	7	7	8	8
172.5	7	7	7	8	8
173.0	7	7	7	8	8
173.5	7	7	7	8	8
174.0	7	7	7	8	8
174.5	7	7	7	8	8
175.0	7	7	7	8	8
175.5	7	7	7	8	8
176.0	7	7	7	7	8
176.5	7	7	7	7	8
177.0	7	7	7	7	7
177.5	7	7	7	7	7
178.0	7	7	7	7	7
178.5	7	7	7	7	7
179.0	7	7	7	7	7
179.5	7	7	7	7	7
180.0	7	7	7	7	7



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2654.86	N.A.	21.00
0-30	5442.11	N.A.	43.10
0-40	7860.23	N.A.	62.30
0-60	11641.55	N.A.	92.20
0-80	12549.75	N.A.	99.40
0-90	12594.87	N.A.	99.70
10-90	11858.11	N.A.	93.90
20-40	5205.37	N.A.	41.20
20-50	7480.63	N.A.	59.20
40-70	4435.8	N.A.	35.10
60-80	908.20	N.A.	7.20
70-80	253.72	N.A.	2.00
80-90	45.12	N.A.	0.40
90-110	10.05	N.A.	0.10
90-120	14.86	N.A.	0.10
90-130	19.51	N.A.	0.20
90-150	26.77	N.A.	0.20
90-180	31.80	N.A.	0.30
110-180	21.75	N.A.	0.20
0-180	12626.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	736.76
10-20	1918.1
20-30	2787.25
30-40	2418.12
40-50	2275.26
50-60	1506.06
60-70	654.48
70-80	253.72
80-90	45.12
90-100	5.51
100-110	4.53
110-120	4.81
120-130	4.65
130-140	4.07
140-150	3.20
150-160	2.48
160-170	1.85
170-180	0.70

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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	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

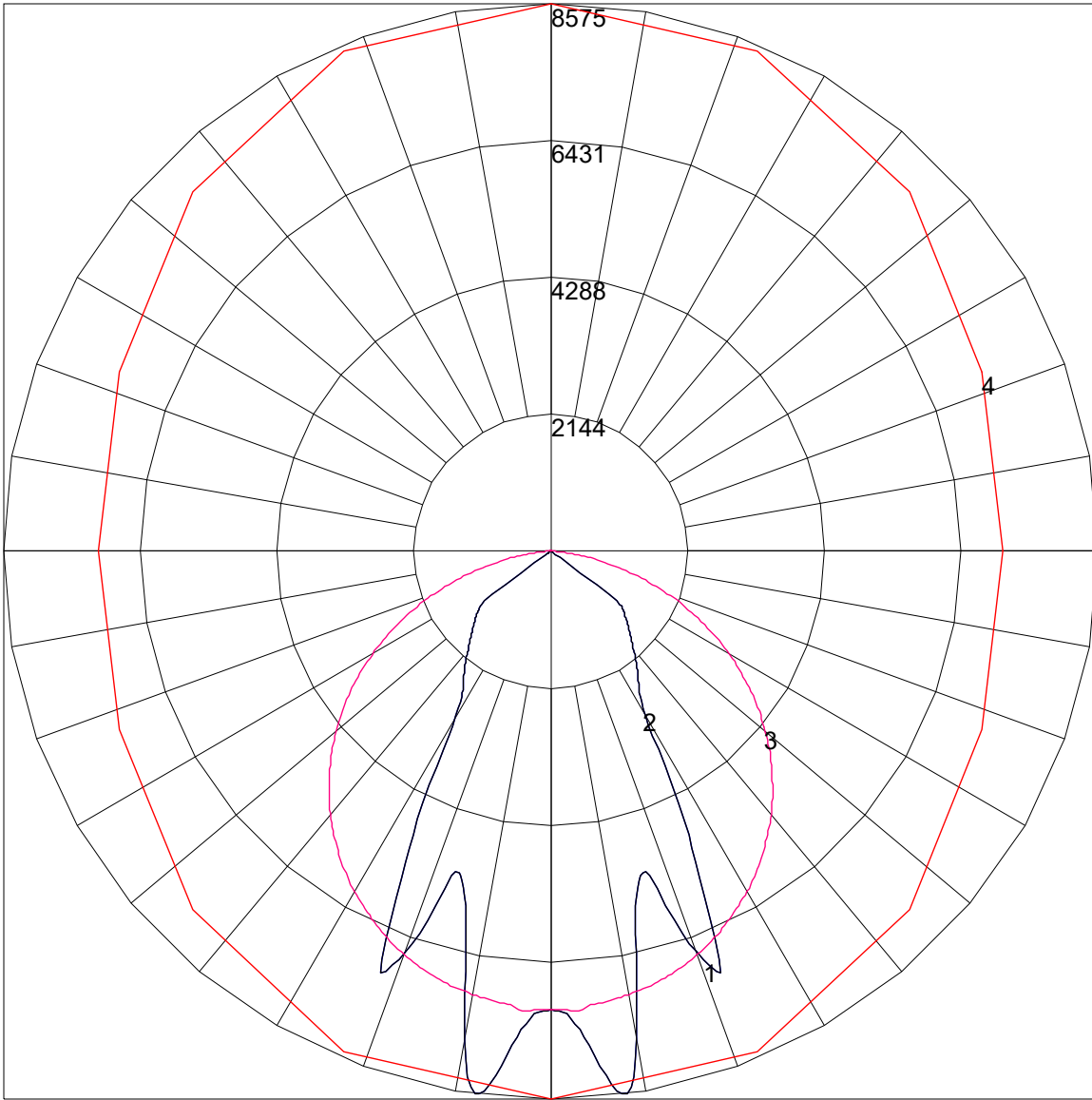
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BASE-4-835-U10-XX-N.IES**

**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	9.0	10.4	9.4	10.7	11.1
	3H	29.8	31.0	30.2	31.4	31.8	8.9	10.1	9.3	10.5	10.9
	4H	30.7	31.8	31.1	32.2	32.6	8.8	10.0	9.3	10.3	10.8
	6H	31.2	32.3	31.7	32.7	33.1	8.8	9.8	9.2	10.2	10.6
	8H	31.4	32.4	31.8	32.8	33.2	8.8	9.7	9.2	10.2	10.6
	12H	31.5	32.4	31.9	32.8	33.3	8.8	9.7	9.2	10.1	10.5
4H	2H	27.1	28.3	27.5	28.6	29.0	9.1	10.3	9.6	10.6	11.1
	3H	29.7	30.6	30.1	31.1	31.5	9.1	10.0	9.5	10.4	10.9
	4H	30.6	31.4	31.0	31.8	32.3	9.0	9.9	9.5	10.3	10.8
	6H	31.1	31.8	31.6	32.3	32.8	9.0	9.7	9.5	10.2	10.7
	8H	31.3	32.0	31.8	32.4	32.9	9.0	9.7	9.5	10.1	10.6
	12H	31.4	32.0	31.9	32.5	33.0	9.0	9.6	9.5	10.1	10.6
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	12.4	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	32.5	12.6	13.1	13.1	13.5	14.1
	8H	31.1	31.5	31.6	32.1	32.6	12.6	13.0	13.1	13.5	14.1

Maximum UGR = 33.3

POLAR GRAPH



Maximum Candela = 8575 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.)