



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA001669-018
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 4/5/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] BASE-4-835-U10-SM-CA
 [LUMINAIRE] Surface mounted, extruded aluminum housing, clear "acrylic"
 [MORE] wrap-around enclosure with linear microprisms inside.
 [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, 0.2907A, 77.68W, 0.965PF, 11.2%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	12218
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	77.68
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.79 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37213	38660	37901
55	30604	35890	43059
65	24454	37336	40739
75	15923	33811	34025
85	6573	28516	21737

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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	3518	3518	3518	3518	3518
0.5	3525	3525	3526	3528	3529
1.0	3526	3527	3531	3533	3535
1.5	3521	3524	3526	3528	3531
2.0	3519	3524	3523	3531	3538
2.5	3518	3524	3524	3539	3545
3.0	3515	3519	3528	3541	3548
3.5	3511	3512	3530	3541	3552
4.0	3507	3507	3528	3551	3574
4.5	3501	3505	3527	3574	3596
5.0	3495	3504	3526	3590	3606
5.5	3491	3506	3539	3593	3610
6.0	3488	3505	3554	3595	3625
6.5	3485	3502	3560	3609	3654
7.0	3482	3497	3560	3637	3677
7.5	3477	3490	3561	3658	3682
8.0	3473	3484	3562	3665	3664
8.5	3468	3477	3573	3652	3634
9.0	3463	3471	3592	3626	3608
9.5	3458	3470	3607	3601	3587
10.0	3452	3471	3615	3579	3573
10.5	3446	3476	3613	3560	3558
11.0	3441	3477	3600	3545	3549
11.5	3433	3476	3579	3532	3534
12.0	3427	3471	3555	3520	3520
12.5	3421	3463	3534	3506	3507
13.0	3413	3454	3516	3492	3493
13.5	3405	3447	3497	3478	3483
14.0	3396	3441	3481	3462	3476
14.5	3387	3437	3464	3451	3484
15.0	3378	3435	3446	3441	3508
15.5	3369	3434	3431	3441	3529
16.0	3359	3433	3413	3457	3551
16.5	3348	3431	3397	3476	3552
17.0	3338	3426	3380	3495	3525
17.5	3325	3418	3359	3508	3476
18.0	3312	3407	3341	3498	3428
18.5	3300	3392	3325	3465	3406
19.0	3288	3376	3310	3416	3385
19.5	3275	3359	3294	3375	3369
20.0	3261	3342	3284	3349	3352
20.5	3247	3325	3283	3328	3344
21.0	3233	3308	3288	3310	3347
21.5	3219	3289	3298	3297	3358
22.0	3203	3270	3308	3284	3370
22.5	3188	3249	3314	3281	3390
23.0	3171	3229	3305	3284	3419
23.5	3153	3206	3275	3291	3436
24.0	3136	3184	3238	3302	3425
24.5	3118	3159	3200	3328	3424
25.0	3099	3137	3162	3348	3421
25.5	3079	3112	3128	3345	3419
26.0	3058	3089	3101	3340	3416
26.5	3037	3066	3073	3337	3398

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27.0	3014	3041	3054	3328	3386
27.5	2992	3015	3039	3319	3370
28.0	2969	2988	3024	3307	3343
28.5	2944	2960	3011	3293	3332
29.0	2920	2931	2998	3280	3332
29.5	2895	2902	2986	3267	3322
30.0	2868	2872	2978	3242	3300
30.5	2843	2844	2981	3231	3283
31.0	2816	2814	2989	3229	3273
31.5	2791	2786	2988	3217	3251
32.0	2766	2758	2983	3198	3215
32.5	2739	2730	2978	3184	3178
33.0	2713	2704	2972	3172	3121
33.5	2688	2679	2961	3153	3070
34.0	2663	2656	2943	3128	3054
34.5	2635	2636	2917	3095	3051
35.0	2609	2619	2886	3050	3042
35.5	2581	2605	2858	2997	3036
36.0	2553	2589	2835	2963	3026
36.5	2524	2572	2817	2949	3001
37.0	2494	2553	2799	2933	2963
37.5	2463	2533	2785	2920	2925
38.0	2431	2511	2773	2912	2888
38.5	2400	2490	2759	2902	2865
39.0	2366	2467	2742	2879	2853
39.5	2333	2444	2724	2849	2831
40.0	2300	2418	2708	2814	2797
40.5	2267	2393	2692	2783	2762
41.0	2234	2367	2673	2760	2739
41.5	2201	2339	2651	2744	2719
42.0	2168	2311	2632	2724	2701
42.5	2133	2281	2606	2695	2677
43.0	2100	2251	2575	2660	2650
43.5	2067	2219	2542	2632	2624
44.0	2033	2187	2513	2606	2607
44.5	1997	2156	2486	2581	2588
45.0	1962	2126	2458	2551	2561
45.5	1927	2099	2434	2522	2522
46.0	1891	2072	2411	2500	2495
46.5	1856	2045	2390	2483	2494
47.0	1821	2016	2367	2466	2502
47.5	1787	1987	2346	2442	2494
48.0	1752	1957	2326	2410	2492
48.5	1719	1928	2306	2382	2499
49.0	1685	1898	2280	2368	2505
49.5	1653	1870	2254	2366	2511
50.0	1621	1841	2228	2362	2532
50.5	1588	1811	2201	2356	2564
51.0	1557	1781	2178	2358	2593
51.5	1525	1752	2154	2370	2628
52.0	1494	1724	2130	2384	2661
52.5	1464	1696	2108	2398	2689
53.0	1435	1669	2087	2419	2703
53.5	1404	1641	2064	2442	2691
54.0	1375	1613	2039	2463	2668
54.5	1347	1587	2016	2476	2634

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55.0	1318	1561	1997	2482	2595
55.5	1291	1536	1980	2483	2564
56.0	1263	1512	1963	2469	2540
56.5	1236	1488	1946	2442	2516
57.0	1209	1462	1929	2408	2493
57.5	1182	1437	1917	2375	2471
58.0	1156	1410	1909	2341	2454
58.5	1129	1382	1907	2311	2435
59.0	1103	1355	1909	2283	2411
59.5	1076	1327	1912	2258	2381
60.0	1050	1299	1913	2236	2350
60.5	1023	1270	1911	2216	2328
61.0	997	1242	1909	2200	2306
61.5	970	1213	1905	2184	2276
62.0	944	1185	1893	2162	2250
62.5	917	1156	1874	2138	2225
63.0	890	1127	1850	2115	2199
63.5	865	1100	1820	2099	2174
64.0	838	1072	1786	2083	2146
64.5	812	1044	1753	2059	2115
65.0	785	1017	1718	2030	2083
65.5	759	991	1686	2000	2053
66.0	733	965	1653	1968	2014
66.5	707	941	1625	1932	1971
67.0	681	916	1599	1896	1932
67.5	656	893	1576	1862	1898
68.0	631	871	1555	1827	1867
68.5	606	849	1535	1793	1840
69.0	581	829	1516	1759	1808
69.5	557	810	1496	1725	1774
70.0	533	792	1475	1690	1744
70.5	510	773	1451	1654	1715
71.0	487	756	1427	1622	1684
71.5	464	737	1401	1595	1655
72.0	442	719	1373	1570	1626
72.5	421	700	1344	1543	1597
73.0	400	681	1313	1512	1561
73.5	379	662	1281	1484	1521
74.0	359	642	1248	1457	1476
74.5	340	623	1216	1430	1429
75.0	321	603	1183	1401	1376
75.5	302	582	1151	1372	1328
76.0	284	561	1119	1340	1280
76.5	267	540	1089	1308	1229
77.0	250	520	1061	1275	1181
77.5	234	499	1032	1239	1130
78.0	218	479	1004	1200	1081
78.5	203	459	976	1159	1033
79.0	188	439	949	1120	988
79.5	174	420	923	1080	946
80.0	160	401	897	1042	908
80.5	147	383	871	1003	872
81.0	134	365	846	967	839
81.5	122	348	821	933	806
82.0	110	331	796	897	774
82.5	99	315	771	862	745

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83.0	88	299	746	827	717
83.5	78	284	723	794	691
84.0	68	269	699	760	665
84.5	59	254	676	729	642
85.0	50	240	653	697	620
85.5	42	227	632	668	600
86.0	35	215	610	641	579
86.5	28	203	589	615	558
87.0	22	192	568	591	539
87.5	16	182	548	569	520
88.0	12	173	528	548	502
88.5	8	164	509	529	485
89.0	6	157	492	511	468
89.5	3	151	475	494	450
90.0	0	145	459	478	434
90.5	0	141	445	462	418
91.0	0	137	431	447	403
91.5	0	133	418	433	390
92.0	1	129	406	419	377
92.5	1	126	394	407	364
93.0	1	123	381	394	352
93.5	1	121	370	383	341
94.0	2	119	358	371	331
94.5	2	117	348	361	320
95.0	3	115	337	351	311
95.5	3	114	327	341	302
96.0	4	112	318	332	293
96.5	4	111	308	323	285
97.0	5	110	299	314	277
97.5	5	109	291	305	270
98.0	6	109	282	298	263
98.5	7	109	274	290	256
99.0	7	109	267	283	249
99.5	8	109	260	277	243
100.0	9	109	253	270	238
100.5	10	110	247	263	233
101.0	11	110	240	257	228
101.5	11	112	235	251	224
102.0	12	113	229	245	219
102.5	13	115	224	240	215
103.0	14	116	219	235	211
103.5	15	117	214	230	208
104.0	16	118	210	225	204
104.5	17	119	206	220	201
105.0	18	120	202	215	198
105.5	19	121	199	210	196
106.0	20	122	196	206	193
106.5	21	123	194	202	191
107.0	22	124	192	198	188
107.5	23	124	190	194	186
108.0	24	125	189	192	183
108.5	25	125	188	189	181
109.0	26	125	187	186	179
109.5	27	125	186	184	177
110.0	28	125	187	182	176
110.5	29	125	187	180	174

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CANDELA TABULATION - (Cont.)

111.0	30	125	189	178	172
111.5	31	125	190	177	171
112.0	32	125	192	175	170
112.5	33	125	193	174	168
113.0	34	125	194	174	167
113.5	34	125	196	173	166
114.0	35	125	197	173	165
114.5	36	125	198	174	164
115.0	37	125	199	174	163
115.5	38	125	200	175	163
116.0	38	125	201	176	163
116.5	39	125	201	177	164
117.0	40	125	202	178	164
117.5	41	125	202	179	165
118.0	42	125	201	181	166
118.5	42	125	201	182	167
119.0	43	124	200	184	169
119.5	44	124	199	186	170
120.0	44	124	197	187	172
120.5	45	123	196	189	174
121.0	45	123	194	190	176
121.5	46	123	191	191	178
122.0	46	122	189	193	180
122.5	47	121	186	193	181
123.0	47	121	184	194	183
123.5	48	120	181	195	184
124.0	48	120	178	196	185
124.5	49	119	176	196	186
125.0	49	118	173	196	186
125.5	49	118	171	195	187
126.0	50	117	168	194	187
126.5	50	116	166	193	187
127.0	50	115	164	191	187
127.5	51	114	162	189	186
128.0	51	113	160	186	185
128.5	51	112	158	184	183
129.0	51	111	157	181	181
129.5	51	110	155	178	179
130.0	52	109	153	175	177
130.5	52	108	151	172	174
131.0	52	107	150	169	172
131.5	52	105	148	166	170
132.0	52	104	146	163	167
132.5	52	103	144	161	164
133.0	52	102	142	158	161
133.5	51	101	141	156	159
134.0	51	100	139	153	157
134.5	51	98	137	151	154
135.0	51	97	135	148	152
135.5	51	96	133	146	150
136.0	51	94	131	144	147
136.5	51	93	130	142	145
137.0	50	91	128	140	143
137.5	50	90	126	138	141
138.0	49	88	124	136	139
138.5	49	86	123	134	137

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CANDELA TABULATION - (Cont.)

139.0	48	85	121	132	135
139.5	48	83	119	130	133
140.0	47	82	117	128	131
140.5	46	80	115	127	129
141.0	46	79	113	125	127
141.5	45	78	111	124	126
142.0	44	76	109	122	124
142.5	44	75	107	121	122
143.0	43	73	105	120	121
143.5	42	72	103	118	120
144.0	42	71	102	116	119
144.5	41	69	100	115	118
145.0	40	68	98	113	117
145.5	40	67	96	112	115
146.0	39	65	95	110	114
146.5	39	64	93	108	113
147.0	38	63	91	107	111
147.5	37	62	90	105	110
148.0	37	60	88	103	108
148.5	36	59	87	102	106
149.0	36	58	85	100	105
149.5	35	57	84	98	103
150.0	35	56	82	97	101
150.5	35	55	80	95	100
151.0	34	54	79	93	98
151.5	34	53	77	91	96
152.0	33	52	76	90	95
152.5	33	50	74	88	93
153.0	32	49	73	86	91
153.5	32	48	71	85	90
154.0	32	47	70	83	88
154.5	31	46	68	81	86
155.0	31	45	67	79	84
155.5	31	43	65	78	83
156.0	30	42	64	76	81
156.5	30	41	62	74	79
157.0	30	40	61	73	77
157.5	30	39	59	71	76
158.0	30	39	58	69	74
158.5	29	38	56	68	72
159.0	29	37	55	66	70
159.5	29	36	54	65	69
160.0	29	35	52	63	67
160.5	29	35	51	62	65
161.0	29	35	50	60	64
161.5	29	35	48	58	62
162.0	29	36	47	57	60
162.5	29	37	46	55	59
163.0	29	39	45	54	57
163.5	30	39	44	52	56
164.0	30	39	42	51	54
164.5	30	38	41	50	53
165.0	30	38	40	48	51
165.5	31	37	39	47	49
166.0	31	36	37	46	48
166.5	31	36	36	45	47

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CANDELA TABULATION - (Cont.)

167.0	31	36	35	43	45
167.5	32	35	34	42	44
168.0	32	35	33	41	43
168.5	32	35	32	40	42
169.0	32	35	32	40	41
169.5	33	34	32	39	40
170.0	33	34	34	38	39
170.5	33	34	36	37	38
171.0	33	33	37	36	37
171.5	33	33	37	35	37
172.0	34	33	36	36	36
172.5	34	32	35	39	36
173.0	34	32	35	40	41
173.5	34	32	34	41	44
174.0	34	32	33	40	45
174.5	34	32	33	39	44
175.0	34	32	32	38	44
175.5	35	33	32	37	41
176.0	35	33	31	35	40
176.5	34	33	31	33	38
177.0	34	33	30	31	35
177.5	33	33	30	30	34
178.0	33	32	30	30	32
178.5	32	32	30	30	31
179.0	31	31	30	30	30
179.5	31	31	30	30	30
180.0	30	30	30	30	30

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1313.45	N.A.	10.70
0-30	2794.14	N.A.	22.90
0-40	4576.00	N.A.	37.50
0-60	8170.77	N.A.	66.90
0-80	10758.45	N.A.	88.10
0-90	11298.32	N.A.	92.50
10-90	10959.26	N.A.	89.70
20-40	3262.54	N.A.	26.70
20-50	5084.56	N.A.	41.60
40-70	5122.6	N.A.	41.90
60-80	2587.68	N.A.	21.20
70-80	1059.85	N.A.	8.70
80-90	539.87	N.A.	4.40
90-110	441.51	N.A.	3.60
90-120	590.67	N.A.	4.80
90-130	724.86	N.A.	5.90
90-150	875.30	N.A.	7.20
90-180	919.89	N.A.	7.50
110-180	478.38	N.A.	3.90
0-180	12218.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	339.05
10-20	974.40
20-30	1480.69
30-40	1781.85
40-50	1822.02
50-60	1772.76
60-70	1527.83
70-80	1059.85
80-90	539.87
90-100	268.01
100-110	173.50
110-120	149.16
120-130	134.19
130-140	93.83
140-150	56.61
150-160	29.21
160-170	12.05
170-180	3.34

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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	117	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	105	100	95	91		102	97	93	89	91	88	85	86	83	81	81	79	77	74
2	95	86	79	73		92	84	77	71	79	73	68	74	70	66	70	67	63	61
3	86	75	67	60		83	73	65	59	69	62	57	65	60	55	62	57	53	50
4	79	66	57	50		76	65	56	49	61	54	48	58	52	46	55	49	45	43
5	72	59	50	43		70	58	49	42	55	47	41	52	45	40	49	43	39	37
6	67	53	44	37		64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33		60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29		56	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26		52	39	31	26	37	30	25	36	29	25	34	29	24	22
10	50	37	29	24		49	36	29	23	35	28	23	33	27	22	32	26	22	20

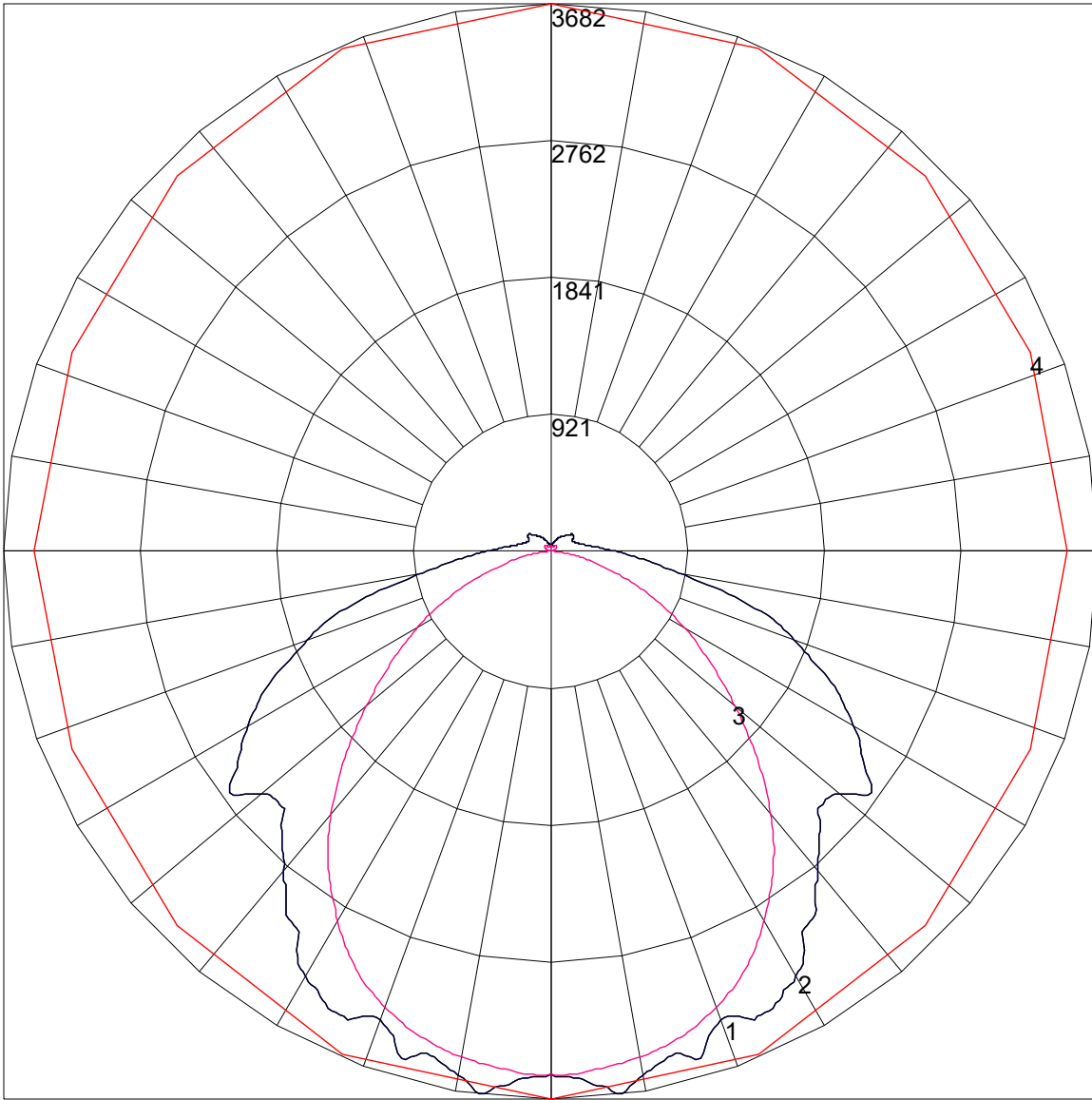
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-4-835-U10-XX-CA.IES

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	21.6	23.1	22.1	23.6	24.1	26.1	27.6	26.6	28.1	28.6
	3H	22.7	24.1	23.2	24.6	25.1	28.6	30.0	29.1	30.4	31.0
	4H	23.0	24.3	23.6	24.8	25.4	29.6	30.9	30.2	31.4	32.0
	6H	23.2	24.4	23.7	24.9	25.5	30.5	31.7	31.0	32.2	32.8
	8H	23.2	24.4	23.8	24.9	25.5	30.8	32.0	31.4	32.5	33.1
	12H	23.2	24.3	23.7	24.8	25.4	31.2	32.3	31.7	32.8	33.4
4H	2H	23.3	24.6	23.8	25.1	25.7	26.5	27.9	27.1	28.4	28.9
	3H	24.7	25.8	25.2	26.3	26.9	29.2	30.3	29.8	30.9	31.5
	4H	25.1	26.1	25.6	26.7	27.3	30.5	31.5	31.0	32.0	32.7
	6H	25.3	26.2	25.9	26.8	27.4	31.5	32.4	32.1	33.0	33.6
	8H	25.4	26.2	25.9	26.8	27.4	31.9	32.8	32.5	33.4	34.0
	12H	25.4	26.1	26.0	26.7	27.4	32.4	33.1	33.0	33.7	34.4
8H	4H	26.3	27.1	26.8	27.7	28.3	30.7	31.5	31.3	32.1	32.7
	6H	26.7	27.4	27.3	28.0	28.7	31.9	32.6	32.5	33.2	33.9
	8H	26.8	27.4	27.4	28.1	28.7	32.4	33.1	33.1	33.7	34.4
	12H	26.8	27.4	27.5	28.0	28.8	33.0	33.6	33.6	34.2	34.9
12H	4H	26.5	27.3	27.1	27.9	28.5	30.7	31.4	31.3	32.0	32.7
	6H	27.1	27.7	27.7	28.3	29.0	31.9	32.6	32.6	33.2	33.9
	8H	27.3	27.9	27.9	28.5	29.2	32.5	33.1	33.2	33.7	34.4

Maximum UGR = 34.9

POLAR GRAPH



Maximum Candela = 3682 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.)