



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA001669-016
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 4/5/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] BASE-4-835-U10-SM-WA
 [LUMINAIRE] BASE Line LED Fixture, 4' Length, 3500K, White Acrylic 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, 0.2905A, 77.62W, 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	10967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	77.62
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
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	35999	32369	33150
55	33343	29294	31112
65	29905	26340	29454
75	24157	23922	28016
85	12753	22359	27697

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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	3170	3170	3170	3170	3170
0.5	3169	3169	3170	3172	3173
1.0	3168	3168	3169	3172	3174
1.5	3166	3166	3168	3172	3176
2.0	3163	3163	3167	3172	3177
2.5	3161	3161	3165	3172	3178
3.0	3157	3157	3163	3171	3178
3.5	3154	3153	3160	3171	3179
4.0	3149	3150	3158	3170	3179
4.5	3145	3145	3154	3168	3180
5.0	3140	3141	3151	3167	3179
5.5	3135	3137	3148	3164	3176
6.0	3132	3133	3144	3161	3173
6.5	3127	3128	3140	3157	3171
7.0	3121	3123	3136	3153	3166
7.5	3116	3117	3131	3149	3162
8.0	3110	3112	3126	3145	3158
8.5	3103	3106	3120	3140	3153
9.0	3098	3099	3115	3135	3149
9.5	3090	3093	3110	3130	3145
10.0	3083	3086	3102	3125	3139
10.5	3075	3079	3096	3119	3134
11.0	3067	3071	3089	3113	3128
11.5	3059	3063	3082	3107	3122
12.0	3049	3054	3075	3101	3116
12.5	3040	3045	3068	3094	3109
13.0	3032	3036	3059	3088	3104
13.5	3022	3027	3050	3080	3096
14.0	3011	3017	3042	3072	3090
14.5	3001	3007	3034	3065	3082
15.0	2991	2997	3025	3057	3074
15.5	2979	2987	3015	3049	3066
16.0	2967	2976	3006	3040	3059
16.5	2955	2964	2995	3031	3051
17.0	2943	2952	2985	3023	3043
17.5	2931	2941	2974	3013	3034
18.0	2917	2928	2964	3004	3024
18.5	2906	2916	2953	2995	3015
19.0	2892	2903	2942	2984	3004
19.5	2879	2890	2930	2974	2995
20.0	2865	2877	2918	2963	2986
20.5	2851	2863	2905	2953	2975
21.0	2836	2848	2893	2942	2965
21.5	2821	2835	2880	2931	2954
22.0	2807	2820	2868	2919	2943
22.5	2791	2806	2854	2907	2932
23.0	2777	2791	2841	2896	2922
23.5	2760	2775	2827	2884	2910
24.0	2744	2760	2813	2872	2898
24.5	2727	2744	2799	2859	2886
25.0	2710	2728	2785	2846	2875
25.5	2694	2712	2770	2833	2862
26.0	2677	2696	2756	2820	2849
26.5	2658	2679	2740	2807	2836

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27.0	2642	2662	2725	2793	2823
27.5	2624	2645	2710	2779	2810
28.0	2606	2627	2694	2765	2796
28.5	2588	2610	2678	2751	2782
29.0	2569	2592	2662	2736	2768
29.5	2551	2574	2646	2722	2755
30.0	2532	2556	2629	2706	2740
30.5	2513	2538	2612	2691	2726
31.0	2492	2519	2595	2676	2712
31.5	2473	2500	2579	2660	2696
32.0	2454	2482	2561	2646	2682
32.5	2434	2463	2543	2630	2665
33.0	2416	2444	2526	2614	2651
33.5	2395	2424	2507	2597	2635
34.0	2375	2405	2490	2581	2619
34.5	2354	2385	2471	2565	2604
35.0	2333	2365	2453	2548	2587
35.5	2312	2345	2434	2531	2571
36.0	2292	2325	2415	2514	2554
36.5	2271	2305	2397	2498	2539
37.0	2250	2284	2378	2480	2523
37.5	2228	2264	2359	2463	2505
38.0	2206	2243	2339	2445	2488
38.5	2185	2223	2320	2428	2471
39.0	2163	2202	2300	2409	2453
39.5	2143	2181	2281	2392	2436
40.0	2120	2159	2261	2373	2418
40.5	2099	2138	2241	2355	2400
41.0	2077	2117	2222	2338	2383
41.5	2054	2095	2201	2319	2365
42.0	2033	2074	2181	2300	2347
42.5	2010	2053	2161	2281	2329
43.0	1988	2030	2140	2262	2311
43.5	1966	2009	2120	2243	2294
44.0	1943	1987	2100	2224	2275
44.5	1920	1965	2078	2205	2258
45.0	1898	1943	2058	2186	2240
45.5	1876	1921	2037	2167	2223
46.0	1853	1899	2016	2147	2204
46.5	1830	1876	1995	2129	2186
47.0	1807	1854	1973	2110	2168
47.5	1785	1832	1952	2091	2151
48.0	1762	1809	1931	2072	2132
48.5	1738	1787	1909	2054	2115
49.0	1715	1764	1888	2034	2096
49.5	1693	1741	1866	2015	2077
50.0	1670	1719	1845	1996	2060
50.5	1646	1695	1824	1977	2041
51.0	1623	1673	1802	1958	2022
51.5	1599	1650	1780	1939	2004
52.0	1577	1627	1759	1919	1986
52.5	1553	1603	1737	1901	1967
53.0	1530	1581	1715	1881	1949
53.5	1506	1557	1693	1862	1930
54.0	1483	1535	1672	1843	1912
54.5	1460	1512	1651	1823	1893

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55.0	1436	1489	1630	1804	1875
55.5	1413	1465	1609	1785	1855
56.0	1389	1442	1587	1765	1837
56.5	1366	1419	1567	1745	1818
57.0	1341	1396	1545	1726	1799
57.5	1318	1372	1524	1707	1780
58.0	1294	1349	1503	1687	1761
58.5	1270	1326	1482	1668	1743
59.0	1247	1303	1461	1649	1724
59.5	1223	1279	1440	1629	1706
60.0	1199	1256	1419	1610	1687
60.5	1175	1233	1398	1591	1669
61.0	1151	1210	1378	1572	1650
61.5	1127	1186	1357	1552	1632
62.0	1103	1163	1336	1533	1614
62.5	1079	1139	1315	1514	1596
63.0	1055	1116	1295	1496	1578
63.5	1032	1093	1274	1478	1560
64.0	1008	1070	1253	1459	1542
64.5	984	1047	1233	1441	1524
65.0	960	1023	1212	1423	1506
65.5	935	1000	1192	1405	1487
66.0	911	977	1172	1386	1468
66.5	887	954	1152	1368	1451
67.0	863	931	1132	1350	1432
67.5	839	908	1112	1331	1413
68.0	816	886	1093	1313	1395
68.5	792	863	1074	1294	1376
69.0	768	842	1055	1276	1358
69.5	744	819	1036	1257	1338
70.0	720	798	1018	1238	1320
70.5	696	776	999	1219	1301
71.0	673	755	981	1201	1282
71.5	649	733	962	1182	1263
72.0	626	712	944	1163	1245
72.5	602	691	926	1145	1226
73.0	579	670	909	1126	1207
73.5	556	650	891	1108	1189
74.0	532	630	873	1089	1170
74.5	510	610	855	1071	1152
75.0	487	589	837	1053	1133
75.5	464	570	819	1035	1115
76.0	442	550	802	1016	1096
76.5	420	531	784	999	1078
77.0	398	513	767	981	1061
77.5	376	495	750	963	1042
78.0	354	477	733	946	1025
78.5	333	460	716	928	1006
79.0	312	443	699	911	989
79.5	292	427	682	894	971
80.0	272	410	666	877	955
80.5	252	394	650	860	937
81.0	233	379	634	843	920
81.5	214	363	618	827	903
82.0	196	348	602	811	887
82.5	178	333	587	794	871

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83.0	161	319	571	778	854
83.5	144	304	556	762	838
84.0	128	290	541	746	822
84.5	112	276	526	731	806
85.0	97	263	512	715	790
85.5	83	250	498	700	774
86.0	70	238	484	686	760
86.5	57	225	471	671	744
87.0	45	214	458	657	730
87.5	33	202	445	643	716
88.0	23	192	433	630	703
88.5	14	183	422	618	690
89.0	8	174	412	607	679
89.5	3	167	402	596	668
90.0	0	161	395	587	658
90.5	0	157	387	578	648
91.0	0	152	381	570	640
91.5	1	148	376	563	632
92.0	1	144	370	557	624
92.5	1	140	365	550	618
93.0	2	137	359	544	610
93.5	2	133	354	537	603
94.0	3	130	348	531	596
94.5	3	127	343	525	589
95.0	4	124	338	518	583
95.5	5	121	333	512	576
96.0	5	118	327	505	569
96.5	6	116	322	499	562
97.0	6	113	317	493	556
97.5	7	111	312	487	549
98.0	8	109	307	480	542
98.5	9	106	302	474	535
99.0	10	105	297	468	529
99.5	11	103	293	462	522
100.0	12	101	288	455	516
100.5	13	100	283	449	509
101.0	14	99	279	443	503
101.5	15	99	274	437	496
102.0	16	99	270	431	490
102.5	17	99	265	425	483
103.0	18	99	261	419	476
103.5	19	99	257	413	470
104.0	20	100	253	407	464
104.5	21	100	249	401	457
105.0	22	100	245	396	451
105.5	24	101	241	390	445
106.0	25	101	237	384	439
106.5	26	102	234	379	432
107.0	27	102	230	373	427
107.5	28	102	227	367	420
108.0	29	103	224	362	415
108.5	30	103	221	357	409
109.0	32	104	218	351	403
109.5	33	104	216	346	397
110.0	34	104	213	341	391
110.5	35	105	212	336	386

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111.0	36	105	210	331	380
111.5	37	105	209	326	374
112.0	38	106	208	321	369
112.5	40	106	207	316	363
113.0	41	106	207	312	358
113.5	42	106	206	307	353
114.0	43	106	206	303	348
114.5	44	107	205	299	343
115.0	45	107	205	296	338
115.5	46	107	204	292	333
116.0	47	107	204	289	328
116.5	48	108	204	286	324
117.0	49	108	203	284	320
117.5	50	108	203	282	317
118.0	51	108	203	280	314
118.5	52	108	202	279	311
119.0	52	109	202	277	308
119.5	53	109	202	276	306
120.0	54	109	202	275	304
120.5	55	109	201	273	303
121.0	56	109	201	272	302
121.5	56	109	200	271	301
122.0	57	110	200	270	299
122.5	58	110	199	269	298
123.0	58	110	199	268	297
123.5	59	110	198	267	295
124.0	60	110	198	266	293
124.5	61	110	197	266	292
125.0	62	110	197	265	290
125.5	63	110	196	264	289
126.0	64	110	195	264	287
126.5	64	111	195	262	285
127.0	65	111	194	261	284
127.5	66	111	194	260	282
128.0	67	111	193	259	281
128.5	68	111	193	257	279
129.0	69	111	193	256	278
129.5	69	111	192	254	276
130.0	70	111	191	253	275
130.5	71	111	190	251	274
131.0	72	111	190	249	272
131.5	73	111	189	248	271
132.0	73	111	188	246	269
132.5	74	111	187	245	267
133.0	75	111	186	243	266
133.5	75	111	185	241	264
134.0	76	112	184	240	262
134.5	77	111	183	238	260
135.0	78	111	181	236	259
135.5	79	111	180	235	257
136.0	80	111	179	233	255
136.5	81	111	178	231	253
137.0	81	110	177	230	251
137.5	82	110	176	228	249
138.0	83	110	175	226	247
138.5	83	110	174	225	245

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CANDELA TABULATION - (Cont.)

139.0	83	109	173	223	243
139.5	83	109	172	221	241
140.0	84	109	171	219	239
140.5	84	109	170	218	237
141.0	84	108	168	216	235
141.5	84	108	167	214	233
142.0	84	108	166	212	231
142.5	84	108	165	210	228
143.0	84	107	164	209	226
143.5	84	107	163	207	224
144.0	84	107	162	205	222
144.5	84	107	161	203	220
145.0	84	106	160	201	218
145.5	84	106	158	199	216
146.0	84	106	157	197	214
146.5	84	105	156	196	212
147.0	84	105	155	194	209
147.5	84	105	154	192	207
148.0	84	105	153	190	205
148.5	84	104	152	188	203
149.0	84	104	151	186	201
149.5	84	104	149	184	199
150.0	84	103	148	182	196
150.5	84	103	147	180	194
151.0	84	103	146	179	192
151.5	84	102	145	177	190
152.0	84	102	143	175	188
152.5	84	101	142	173	185
153.0	83	101	141	171	183
153.5	83	100	139	169	181
154.0	83	99	138	167	179
154.5	83	98	137	165	177
155.0	83	97	136	163	175
155.5	83	96	135	161	172
156.0	83	95	133	160	170
156.5	83	94	132	158	168
157.0	82	93	131	156	166
157.5	82	93	129	154	164
158.0	82	92	128	152	162
158.5	82	91	127	150	159
159.0	82	90	126	148	157
159.5	82	90	125	146	155
160.0	81	90	123	144	153
160.5	81	91	122	142	151
161.0	82	93	121	140	148
161.5	82	95	119	139	146
162.0	83	96	118	137	144
162.5	83	98	117	135	142
163.0	84	99	116	133	140
163.5	85	100	114	131	138
164.0	86	101	111	130	135
164.5	87	101	109	128	133
165.0	88	102	107	126	131
165.5	89	102	105	124	129
166.0	90	102	103	122	127
166.5	91	102	100	121	125

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CANDELA TABULATION - (Cont.)

167.0	92	102	98	119	123
167.5	93	101	96	117	121
168.0	94	101	94	115	119
168.5	95	101	92	114	117
169.0	96	101	93	112	115
169.5	97	101	95	110	114
170.0	98	100	97	109	112
170.5	99	99	99	107	110
171.0	100	98	101	104	108
171.5	101	98	103	105	106
172.0	102	98	104	109	107
172.5	102	97	104	112	113
173.0	103	97	103	114	119
173.5	104	97	101	116	125
174.0	105	97	99	118	130
174.5	105	98	98	117	133
175.0	105	99	97	115	132
175.5	106	100	96	113	126
176.0	105	101	95	107	121
176.5	104	101	93	99	115
177.0	103	100	92	94	108
177.5	101	99	91	92	103
178.0	100	98	91	92	99
178.5	98	97	91	91	95
179.0	95	95	91	91	92
179.5	94	93	92	91	92
180.0	92	92	92	92	92

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1153.61	N.A.	10.50
0-30	2438.07	N.A.	22.20
0-40	3974.92	N.A.	36.20
0-60	7039.22	N.A.	64.20
0-80	9121.93	N.A.	83.20
0-90	9656.18	N.A.	88.00
10-90	9356.61	N.A.	85.30
20-40	2821.3	N.A.	25.70
20-50	4414.36	N.A.	40.30
40-70	4275.97	N.A.	39.00
60-80	2082.71	N.A.	19.00
70-80	871.05	N.A.	7.90
80-90	534.25	N.A.	4.90
90-110	608.39	N.A.	5.50
90-120	808.38	N.A.	7.40
90-130	976.04	N.A.	8.90
90-150	1208.32	N.A.	11.00
90-180	1310.91	N.A.	12.00
110-180	702.53	N.A.	6.40
0-180	10967.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	299.57
10-20	854.04
20-30	1284.45
30-40	1536.85
40-50	1593.06
50-60	1471.25
60-70	1211.66
70-80	871.05
80-90	534.25
90-100	348.60
100-110	259.78
110-120	199.99
120-130	167.66
130-140	134.98
140-150	97.30
150-160	61.08
160-170	31.62
170-180	9.89

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	104	99	94	90	100	96	91	87	89	86	82	83	80	78	78	75	73	70
2	95	86	78	72	91	83	76	70	77	72	67	72	68	64	67	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	79	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	49	42	54	46	41	50	44	39	47	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	37	33	31
7	62	48	39	33	59	47	38	32	44	37	31	41	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	54	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

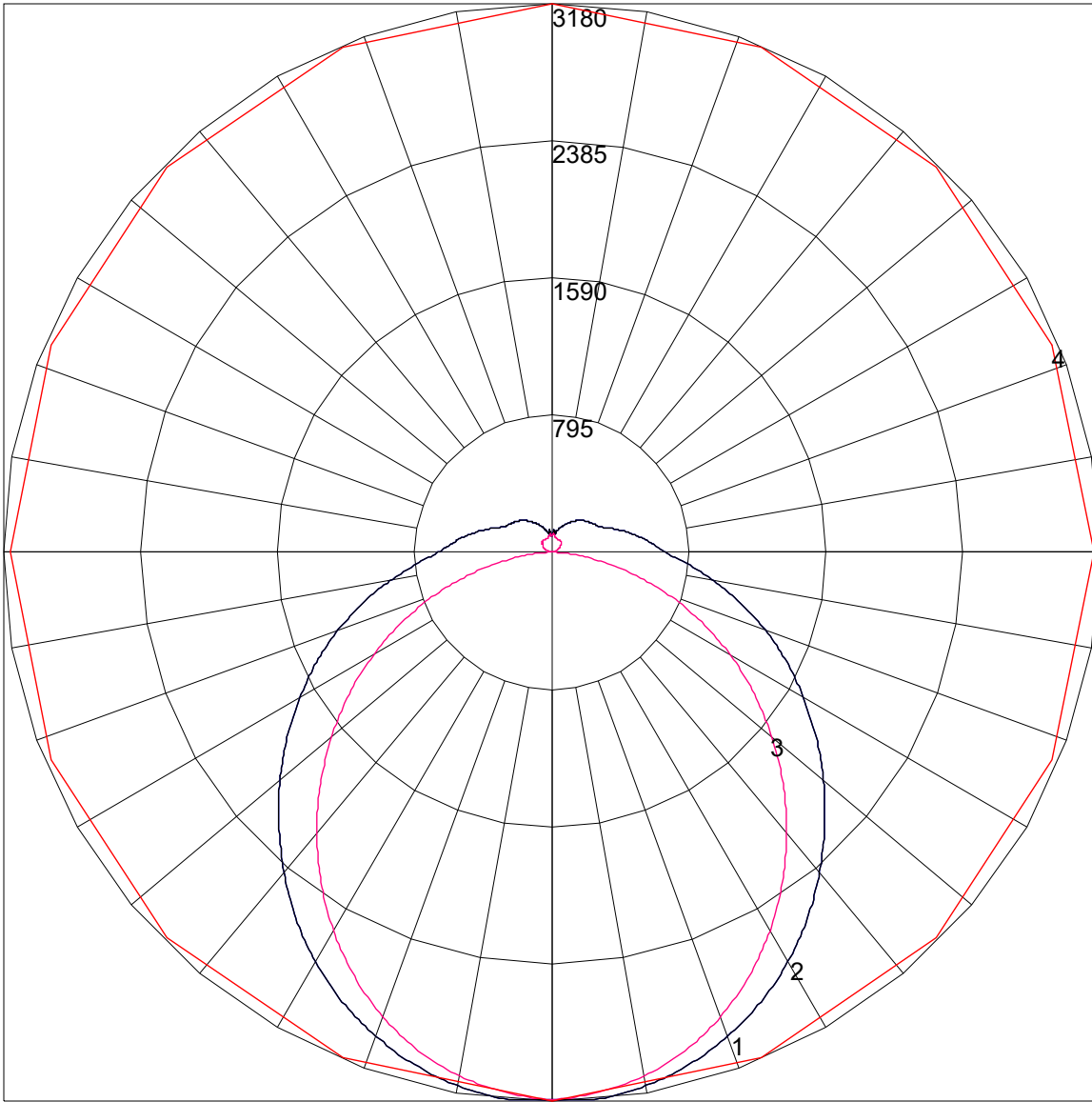
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-4-835-U10-XX-WA.IES

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	21.7	23.1	22.2	23.7	24.3	24.1	25.5	24.6	26.1	26.6
	3H	23.2	24.5	23.7	25.0	25.6	26.6	27.9	27.1	28.4	29.1
	4H	23.6	24.9	24.2	25.4	26.1	27.8	29.0	28.4	29.6	30.2
	6H	23.9	25.0	24.5	25.6	26.3	29.0	30.2	29.6	30.8	31.4
	8H	24.0	25.1	24.6	25.7	26.3	29.7	30.8	30.3	31.4	32.0
	12H	24.0	25.0	24.6	25.6	26.3	30.4	31.4	31.0	32.0	32.7
4H	2H	22.6	23.8	23.2	24.4	25.0	24.5	25.7	25.0	26.3	26.9
	3H	24.3	25.3	24.9	25.9	26.6	27.2	28.3	27.8	28.9	29.5
	4H	24.9	25.8	25.5	26.4	27.1	28.6	29.5	29.2	30.2	30.9
	6H	25.2	26.1	25.9	26.7	27.4	30.0	30.9	30.7	31.5	32.2
	8H	25.3	26.1	26.0	26.8	27.5	30.8	31.6	31.4	32.2	32.9
	12H	25.4	26.1	26.0	26.8	27.5	31.6	32.3	32.3	33.0	33.7
8H	4H	25.6	26.4	26.2	27.0	27.7	28.8	29.6	29.4	30.2	30.9
	6H	26.1	26.8	26.8	27.5	28.2	30.4	31.1	31.1	31.7	32.5
	8H	26.3	26.9	27.0	27.6	28.4	31.3	31.9	32.0	32.6	33.3
	12H	26.4	27.0	27.1	27.6	28.5	32.3	32.8	33.0	33.5	34.3
12H	4H	25.8	26.5	26.4	27.2	27.9	28.8	29.5	29.4	30.2	30.9
	6H	26.5	27.1	27.1	27.7	28.5	30.4	31.0	31.1	31.7	32.5
	8H	26.7	27.3	27.4	27.9	28.7	31.4	31.9	32.1	32.6	33.4

Maximum UGR = 34.3

POLAR GRAPH



- Maximum Candela = 3180 Located At Horizontal Angle = 90, Vertical Angle = 4.5
- # 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 (4.5) (Through Max. Cd.)