



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA001669-016_modified for 8ft
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 4/5/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] BASE-8-835-U10-SM-WA
 [LUMINAIRE] BASE Line LED Fixture, 8' Length, 3500K, White Acrylic 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	21934
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	155.36
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)	7.58 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	36295	32525	33150
55	33734	29481	31112
65	30429	26565	29454
75	24883	24210	28016
85	13858	22786	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	6340	6340	6340	6340	6340
0.5	6338	6338	6340	6344	6346
1.0	6336	6336	6338	6344	6348
1.5	6332	6332	6336	6344	6352
2.0	6326	6326	6334	6344	6354
2.5	6322	6322	6330	6344	6356
3.0	6314	6314	6326	6342	6356
3.5	6308	6306	6320	6342	6358
4.0	6298	6300	6316	6340	6358
4.5	6290	6290	6308	6336	6360
5.0	6280	6282	6302	6334	6358
5.5	6270	6274	6296	6328	6352
6.0	6264	6266	6288	6322	6346
6.5	6254	6256	6280	6314	6342
7.0	6242	6246	6272	6306	6332
7.5	6232	6234	6262	6298	6324
8.0	6220	6224	6252	6290	6316
8.5	6206	6212	6240	6280	6306
9.0	6196	6198	6230	6270	6298
9.5	6180	6186	6220	6260	6290
10.0	6166	6172	6204	6250	6278
10.5	6150	6158	6192	6238	6268
11.0	6134	6142	6178	6226	6256
11.5	6118	6126	6164	6214	6244
12.0	6098	6108	6150	6202	6232
12.5	6080	6090	6136	6188	6218
13.0	6064	6072	6118	6176	6208
13.5	6044	6054	6100	6160	6192
14.0	6022	6034	6084	6144	6180
14.5	6002	6014	6068	6130	6164
15.0	5982	5994	6050	6114	6148
15.5	5958	5974	6030	6098	6132
16.0	5934	5952	6012	6080	6118
16.5	5910	5928	5990	6062	6102
17.0	5886	5904	5970	6046	6086
17.5	5862	5882	5948	6026	6068
18.0	5834	5856	5928	6008	6048
18.5	5812	5832	5906	5990	6030
19.0	5784	5806	5884	5968	6008
19.5	5758	5780	5860	5948	5990
20.0	5730	5754	5836	5926	5972
20.5	5702	5726	5810	5906	5950
21.0	5672	5696	5786	5884	5930
21.5	5642	5670	5760	5862	5908
22.0	5614	5640	5736	5838	5886
22.5	5582	5612	5708	5814	5864
23.0	5554	5582	5682	5792	5844
23.5	5520	5550	5654	5768	5820
24.0	5488	5520	5626	5744	5796
24.5	5454	5488	5598	5718	5772
25.0	5420	5456	5570	5692	5750
25.5	5388	5424	5540	5666	5724
26.0	5354	5392	5512	5640	5698
26.5	5316	5358	5480	5614	5672

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27.0	5284	5324	5450	5586	5646
27.5	5248	5290	5420	5558	5620
28.0	5212	5254	5388	5530	5592
28.5	5176	5220	5356	5502	5564
29.0	5138	5184	5324	5472	5536
29.5	5102	5148	5292	5444	5510
30.0	5064	5112	5258	5412	5480
30.5	5026	5076	5224	5382	5452
31.0	4984	5038	5190	5352	5424
31.5	4946	5000	5158	5320	5392
32.0	4908	4964	5122	5292	5364
32.5	4868	4926	5086	5260	5330
33.0	4832	4888	5052	5228	5302
33.5	4790	4848	5014	5194	5270
34.0	4750	4810	4980	5162	5238
34.5	4708	4770	4942	5130	5208
35.0	4666	4730	4906	5096	5174
35.5	4624	4690	4868	5062	5142
36.0	4584	4650	4830	5028	5108
36.5	4542	4610	4794	4996	5078
37.0	4500	4568	4756	4960	5046
37.5	4456	4528	4718	4926	5010
38.0	4412	4486	4678	4890	4976
38.5	4370	4446	4640	4856	4942
39.0	4326	4404	4600	4818	4906
39.5	4286	4362	4562	4784	4872
40.0	4240	4318	4522	4746	4836
40.5	4198	4276	4482	4710	4800
41.0	4154	4234	4444	4676	4766
41.5	4108	4190	4402	4638	4730
42.0	4066	4148	4362	4600	4694
42.5	4020	4106	4322	4562	4658
43.0	3976	4060	4280	4524	4622
43.5	3932	4018	4240	4486	4588
44.0	3886	3974	4200	4448	4550
44.5	3840	3930	4156	4410	4516
45.0	3796	3886	4116	4372	4480
45.5	3752	3842	4074	4334	4446
46.0	3706	3798	4032	4294	4408
46.5	3660	3752	3990	4258	4372
47.0	3614	3708	3946	4220	4336
47.5	3570	3664	3904	4182	4302
48.0	3524	3618	3862	4144	4264
48.5	3476	3574	3818	4108	4230
49.0	3430	3528	3776	4068	4192
49.5	3386	3482	3732	4030	4154
50.0	3340	3438	3690	3992	4120
50.5	3292	3390	3648	3954	4082
51.0	3246	3346	3604	3916	4044
51.5	3198	3300	3560	3878	4008
52.0	3154	3254	3518	3838	3972
52.5	3106	3206	3474	3802	3934
53.0	3060	3162	3430	3762	3898
53.5	3012	3114	3386	3724	3860
54.0	2966	3070	3344	3686	3824
54.5	2920	3024	3302	3646	3786

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55.0	2872	2978	3260	3608	3750
55.5	2826	2930	3218	3570	3710
56.0	2778	2884	3174	3530	3674
56.5	2732	2838	3134	3490	3636
57.0	2682	2792	3090	3452	3598
57.5	2636	2744	3048	3414	3560
58.0	2588	2698	3006	3374	3522
58.5	2540	2652	2964	3336	3486
59.0	2494	2606	2922	3298	3448
59.5	2446	2558	2880	3258	3412
60.0	2398	2512	2838	3220	3374
60.5	2350	2466	2796	3182	3338
61.0	2302	2420	2756	3144	3300
61.5	2254	2372	2714	3104	3264
62.0	2206	2326	2672	3066	3228
62.5	2158	2278	2630	3028	3192
63.0	2110	2232	2590	2992	3156
63.5	2064	2186	2548	2956	3120
64.0	2016	2140	2506	2918	3084
64.5	1968	2094	2466	2882	3048
65.0	1920	2046	2424	2846	3012
65.5	1870	2000	2384	2810	2974
66.0	1822	1954	2344	2772	2936
66.5	1774	1908	2304	2736	2902
67.0	1726	1862	2264	2700	2864
67.5	1678	1816	2224	2662	2826
68.0	1632	1772	2186	2626	2790
68.5	1584	1726	2148	2588	2752
69.0	1536	1684	2110	2552	2716
69.5	1488	1638	2072	2514	2676
70.0	1440	1596	2036	2476	2640
70.5	1392	1552	1998	2438	2602
71.0	1346	1510	1962	2402	2564
71.5	1298	1466	1924	2364	2526
72.0	1252	1424	1888	2326	2490
72.5	1204	1382	1852	2290	2452
73.0	1158	1340	1818	2252	2414
73.5	1112	1300	1782	2216	2378
74.0	1064	1260	1746	2178	2340
74.5	1020	1220	1710	2142	2304
75.0	974	1178	1674	2106	2266
75.5	928	1140	1638	2070	2230
76.0	884	1100	1604	2032	2192
76.5	840	1062	1568	1998	2156
77.0	796	1026	1534	1962	2122
77.5	752	990	1500	1926	2084
78.0	708	954	1466	1892	2050
78.5	666	920	1432	1856	2012
79.0	624	886	1398	1822	1978
79.5	584	854	1364	1788	1942
80.0	544	820	1332	1754	1910
80.5	504	788	1300	1720	1874
81.0	466	758	1268	1686	1840
81.5	428	726	1236	1654	1806
82.0	392	696	1204	1622	1774
82.5	356	666	1174	1588	1742

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83.0	322	638	1142	1556	1708
83.5	288	608	1112	1524	1676
84.0	256	580	1082	1492	1644
84.5	224	552	1052	1462	1612
85.0	194	526	1024	1430	1580
85.5	166	500	996	1400	1548
86.0	140	476	968	1372	1520
86.5	114	450	942	1342	1488
87.0	90	428	916	1314	1460
87.5	66	404	890	1286	1432
88.0	46	384	866	1260	1406
88.5	28	366	844	1236	1380
89.0	16	348	824	1214	1358
89.5	6	334	804	1192	1336
90.0	0	322	790	1174	1316
90.5	0	314	774	1156	1296
91.0	0	304	762	1140	1280
91.5	2	296	752	1126	1264
92.0	2	288	740	1114	1248
92.5	2	280	730	1100	1236
93.0	4	274	718	1088	1220
93.5	4	266	708	1074	1206
94.0	6	260	696	1062	1192
94.5	6	254	686	1050	1178
95.0	8	248	676	1036	1166
95.5	10	242	666	1024	1152
96.0	10	236	654	1010	1138
96.5	12	232	644	998	1124
97.0	12	226	634	986	1112
97.5	14	222	624	974	1098
98.0	16	218	614	960	1084
98.5	18	212	604	948	1070
99.0	20	210	594	936	1058
99.5	22	206	586	924	1044
100.0	24	202	576	910	1032
100.5	26	200	566	898	1018
101.0	28	198	558	886	1006
101.5	30	198	548	874	992
102.0	32	198	540	862	980
102.5	34	198	530	850	966
103.0	36	198	522	838	952
103.5	38	198	514	826	940
104.0	40	200	506	814	928
104.5	42	200	498	802	914
105.0	44	200	490	792	902
105.5	48	202	482	780	890
106.0	50	202	474	768	878
106.5	52	204	468	758	864
107.0	54	204	460	746	854
107.5	56	204	454	734	840
108.0	58	206	448	724	830
108.5	60	206	442	714	818
109.0	64	208	436	702	806
109.5	66	208	432	692	794
110.0	68	208	426	682	782
110.5	70	210	424	672	772

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CANDELA TABULATION - (Cont.)

111.0	72	210	420	662	760
111.5	74	210	418	652	748
112.0	76	212	416	642	738
112.5	80	212	414	632	726
113.0	82	212	414	624	716
113.5	84	212	412	614	706
114.0	86	212	412	606	696
114.5	88	214	410	598	686
115.0	90	214	410	592	676
115.5	92	214	408	584	666
116.0	94	214	408	578	656
116.5	96	216	408	572	648
117.0	98	216	406	568	640
117.5	100	216	406	564	634
118.0	102	216	406	560	628
118.5	104	216	404	558	622
119.0	104	218	404	554	616
119.5	106	218	404	552	612
120.0	108	218	404	550	608
120.5	110	218	402	546	606
121.0	112	218	402	544	604
121.5	112	218	400	542	602
122.0	114	220	400	540	598
122.5	116	220	398	538	596
123.0	116	220	398	536	594
123.5	118	220	396	534	590
124.0	120	220	396	532	586
124.5	122	220	394	532	584
125.0	124	220	394	530	580
125.5	126	220	392	528	578
126.0	128	220	390	528	574
126.5	128	222	390	524	570
127.0	130	222	388	522	568
127.5	132	222	388	520	564
128.0	134	222	386	518	562
128.5	136	222	386	514	558
129.0	138	222	386	512	556
129.5	138	222	384	508	552
130.0	140	222	382	506	550
130.5	142	222	380	502	548
131.0	144	222	380	498	544
131.5	146	222	378	496	542
132.0	146	222	376	492	538
132.5	148	222	374	490	534
133.0	150	222	372	486	532
133.5	150	222	370	482	528
134.0	152	224	368	480	524
134.5	154	222	366	476	520
135.0	156	222	362	472	518
135.5	158	222	360	470	514
136.0	160	222	358	466	510
136.5	162	222	356	462	506
137.0	162	220	354	460	502
137.5	164	220	352	456	498
138.0	166	220	350	452	494
138.5	166	220	348	450	490

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CANDELA TABULATION - (Cont.)

139.0	166	218	346	446	486
139.5	166	218	344	442	482
140.0	168	218	342	438	478
140.5	168	218	340	436	474
141.0	168	216	336	432	470
141.5	168	216	334	428	466
142.0	168	216	332	424	462
142.5	168	216	330	420	456
143.0	168	214	328	418	452
143.5	168	214	326	414	448
144.0	168	214	324	410	444
144.5	168	214	322	406	440
145.0	168	212	320	402	436
145.5	168	212	316	398	432
146.0	168	212	314	394	428
146.5	168	210	312	392	424
147.0	168	210	310	388	418
147.5	168	210	308	384	414
148.0	168	210	306	380	410
148.5	168	208	304	376	406
149.0	168	208	302	372	402
149.5	168	208	298	368	398
150.0	168	206	296	364	392
150.5	168	206	294	360	388
151.0	168	206	292	358	384
151.5	168	204	290	354	380
152.0	168	204	286	350	376
152.5	168	202	284	346	370
153.0	166	202	282	342	366
153.5	166	200	278	338	362
154.0	166	198	276	334	358
154.5	166	196	274	330	354
155.0	166	194	272	326	350
155.5	166	192	270	322	344
156.0	166	190	266	320	340
156.5	166	188	264	316	336
157.0	164	186	262	312	332
157.5	164	186	258	308	328
158.0	164	184	256	304	324
158.5	164	182	254	300	318
159.0	164	180	252	296	314
159.5	164	180	250	292	310
160.0	162	180	246	288	306
160.5	162	182	244	284	302
161.0	164	186	242	280	296
161.5	164	190	238	278	292
162.0	166	192	236	274	288
162.5	166	196	234	270	284
163.0	168	198	232	266	280
163.5	170	200	228	262	276
164.0	172	202	222	260	270
164.5	174	202	218	256	266
165.0	176	204	214	252	262
165.5	178	204	210	248	258
166.0	180	204	206	244	254
166.5	182	204	200	242	250

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167.0	184	204	196	238	246
167.5	186	202	192	234	242
168.0	188	202	188	230	238
168.5	190	202	184	228	234
169.0	192	202	186	224	230
169.5	194	202	190	220	228
170.0	196	200	194	218	224
170.5	198	198	198	214	220
171.0	200	196	202	208	216
171.5	202	196	206	210	212
172.0	204	196	208	218	214
172.5	204	194	208	224	226
173.0	206	194	206	228	238
173.5	208	194	202	232	250
174.0	210	194	198	236	260
174.5	210	196	196	234	266
175.0	210	198	194	230	264
175.5	212	200	192	226	252
176.0	210	202	190	214	242
176.5	208	202	186	198	230
177.0	206	200	184	188	216
177.5	202	198	182	184	206
178.0	200	196	182	184	198
178.5	196	194	182	182	190
179.0	190	190	182	182	184
179.5	188	186	184	182	184
180.0	184	184	184	184	184

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2307.23	N.A.	10.50
0-30	4876.13	N.A.	22.20
0-40	7949.83	N.A.	36.20
0-60	14078.45	N.A.	64.20
0-80	18243.87	N.A.	83.20
0-90	19312.36	N.A.	88.00
10-90	18713.22	N.A.	85.30
20-40	5642.6	N.A.	25.70
20-50	8828.72	N.A.	40.30
40-70	8551.93	N.A.	39.00
60-80	4165.42	N.A.	19.00
70-80	1742.1	N.A.	7.90
80-90	1068.5	N.A.	4.90
90-110	1216.77	N.A.	5.50
90-120	1616.75	N.A.	7.40
90-130	1952.07	N.A.	8.90
90-150	2416.65	N.A.	11.00
90-180	2621.82	N.A.	12.00
110-180	1405.05	N.A.	6.40
0-180	21934.19	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	599.14
10-20	1708.08
20-30	2568.91
30-40	3073.7
40-50	3186.12
50-60	2942.5
60-70	2423.32
70-80	1742.1
80-90	1068.5
90-100	697.20
100-110	519.57
110-120	399.98
120-130	335.32
130-140	269.96
140-150	194.61
150-160	122.17
160-170	63.24
170-180	19.78

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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

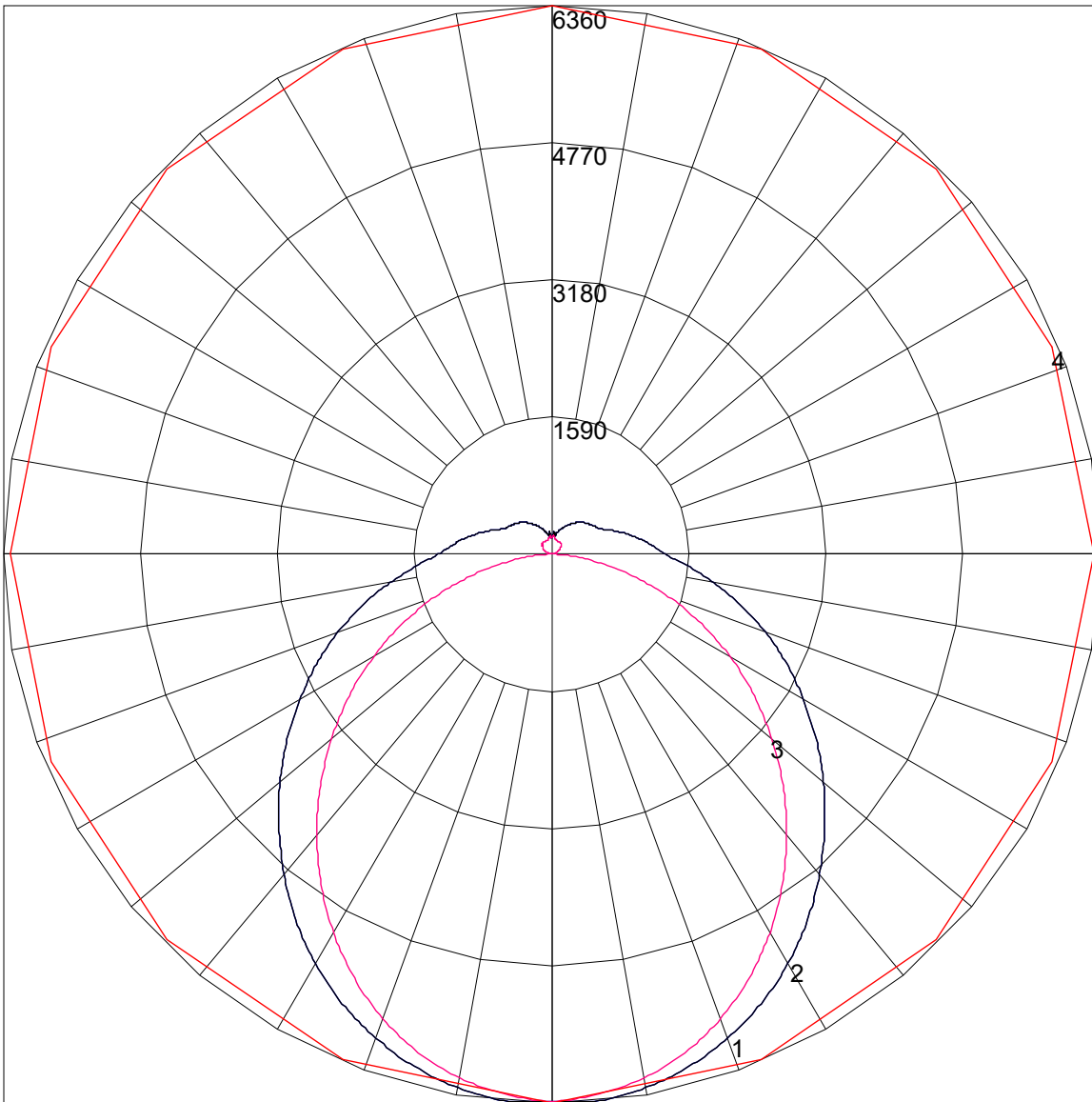
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-8-835-U10-XX-WA.IES

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	24.7	26.1	26.7
	3H	23.2	24.5	23.7	25.0	25.6	26.6	27.9	27.2	28.5	29.1
	4H	23.6	24.9	24.2	25.4	26.1	27.8	29.1	28.4	29.6	30.3
	6H	23.9	25.1	24.5	25.6	26.3	29.1	30.3	29.7	30.8	31.5
	8H	24.0	25.1	24.6	25.7	26.3	29.8	30.9	30.4	31.5	32.1
	12H	24.0	25.0	24.6	25.6	26.3	30.5	31.5	31.1	32.1	32.8
4H	2H	22.6	23.8	23.2	24.4	25.0	24.5	25.7	25.1	26.3	26.9
	3H	24.3	25.3	24.9	25.9	26.6	27.2	28.3	27.8	28.9	29.6
	4H	24.9	25.8	25.5	26.4	27.1	28.6	29.6	29.3	30.2	30.9
	6H	25.2	26.1	25.9	26.7	27.4	30.1	30.9	30.7	31.6	32.3
	8H	25.3	26.1	26.0	26.8	27.5	30.9	31.7	31.5	32.3	33.0
	12H	25.4	26.1	26.0	26.8	27.5	31.7	32.4	32.4	33.1	33.8
8H	4H	25.6	26.4	26.2	27.0	27.7	28.8	29.6	29.4	30.3	31.0
	6H	26.2	26.8	26.8	27.5	28.2	30.5	31.1	31.1	31.8	32.5
	8H	26.3	26.9	27.0	27.6	28.4	31.4	32.0	32.0	32.7	33.4
	12H	26.4	27.0	27.1	27.7	28.5	32.4	32.9	33.1	33.6	34.4
12H	4H	25.8	26.5	26.4	27.2	27.9	28.8	29.5	29.5	30.2	30.9
	6H	26.5	27.1	27.2	27.7	28.5	30.5	31.1	31.2	31.8	32.5
	8H	26.7	27.3	27.4	28.0	28.8	31.5	32.0	32.1	32.7	33.5

Maximum UGR = 34.4

POLAR GRAPH



Maximum Candela = 6360 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.)