



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA001669-018_modified for 8ft
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 4/5/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] BASE-8-835-U10-SM-CA
 [LUMINAIRE] Surface mounted, extruded aluminum housing, clear "acrylic"
 [MORE] wrap-around enclosure with linear microprisms inside.
 [LAMP] 360 LEDs on four white Osram PrevaLED LED boards
 [BALLAST] Four 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	24436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	155.36
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)	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	37519	38847	37901
55	30962	36119	43059
65	24882	37656	40739
75	16401	34218	34025
85	7144	29061	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	7036	7036	7036	7036	7036
0.5	7050	7050	7052	7056	7058
1.0	7052	7054	7062	7066	7070
1.5	7042	7048	7052	7056	7062
2.0	7038	7048	7046	7062	7076
2.5	7036	7048	7048	7078	7090
3.0	7030	7038	7056	7082	7096
3.5	7022	7024	7060	7082	7104
4.0	7014	7014	7056	7102	7148
4.5	7002	7010	7054	7148	7192
5.0	6990	7008	7052	7180	7212
5.5	6982	7012	7078	7186	7220
6.0	6976	7010	7108	7190	7250
6.5	6970	7004	7120	7218	7308
7.0	6964	6994	7120	7274	7354
7.5	6954	6980	7122	7316	7364
8.0	6946	6968	7124	7330	7328
8.5	6936	6954	7146	7304	7268
9.0	6926	6942	7184	7252	7216
9.5	6916	6940	7214	7202	7174
10.0	6904	6942	7230	7158	7146
10.5	6892	6952	7226	7120	7116
11.0	6882	6954	7200	7090	7098
11.5	6866	6952	7158	7064	7068
12.0	6854	6942	7110	7040	7040
12.5	6842	6926	7068	7012	7014
13.0	6826	6908	7032	6984	6986
13.5	6810	6894	6994	6956	6966
14.0	6792	6882	6962	6924	6952
14.5	6774	6874	6928	6902	6968
15.0	6756	6870	6892	6882	7016
15.5	6738	6868	6862	6882	7058
16.0	6718	6866	6826	6914	7102
16.5	6696	6862	6794	6952	7104
17.0	6676	6852	6760	6990	7050
17.5	6650	6836	6718	7016	6952
18.0	6624	6814	6682	6996	6856
18.5	6600	6784	6650	6930	6812
19.0	6576	6752	6620	6832	6770
19.5	6550	6718	6588	6750	6738
20.0	6522	6684	6568	6698	6704
20.5	6494	6650	6566	6656	6688
21.0	6466	6616	6576	6620	6694
21.5	6438	6578	6596	6594	6716
22.0	6406	6540	6616	6568	6740
22.5	6376	6498	6628	6562	6780
23.0	6342	6458	6610	6568	6838
23.5	6306	6412	6550	6582	6872
24.0	6272	6368	6476	6604	6850
24.5	6236	6318	6400	6656	6848
25.0	6198	6274	6324	6696	6842
25.5	6158	6224	6256	6690	6838
26.0	6116	6178	6202	6680	6832
26.5	6074	6132	6146	6674	6796

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CANDELA TABULATION - (Cont.)

27.0	6028	6082	6108	6656	6772
27.5	5984	6030	6078	6638	6740
28.0	5938	5976	6048	6614	6686
28.5	5888	5920	6022	6586	6664
29.0	5840	5862	5996	6560	6664
29.5	5790	5804	5972	6534	6644
30.0	5736	5744	5956	6484	6600
30.5	5686	5688	5962	6462	6566
31.0	5632	5628	5978	6458	6546
31.5	5582	5572	5976	6434	6502
32.0	5532	5516	5966	6396	6430
32.5	5478	5460	5956	6368	6356
33.0	5426	5408	5944	6344	6242
33.5	5376	5358	5922	6306	6140
34.0	5326	5312	5886	6256	6108
34.5	5270	5272	5834	6190	6102
35.0	5218	5238	5772	6100	6084
35.5	5162	5210	5716	5994	6072
36.0	5106	5178	5670	5926	6052
36.5	5048	5144	5634	5898	6002
37.0	4988	5106	5598	5866	5926
37.5	4926	5066	5570	5840	5850
38.0	4862	5022	5546	5824	5776
38.5	4800	4980	5518	5804	5730
39.0	4732	4934	5484	5758	5706
39.5	4666	4888	5448	5698	5662
40.0	4600	4836	5416	5628	5594
40.5	4534	4786	5384	5566	5524
41.0	4468	4734	5346	5520	5478
41.5	4402	4678	5302	5488	5438
42.0	4336	4622	5264	5448	5402
42.5	4266	4562	5212	5390	5354
43.0	4200	4502	5150	5320	5300
43.5	4134	4438	5084	5264	5248
44.0	4066	4374	5026	5212	5214
44.5	3994	4312	4972	5162	5176
45.0	3924	4252	4916	5102	5122
45.5	3854	4198	4868	5044	5044
46.0	3782	4144	4822	5000	4990
46.5	3712	4090	4780	4966	4988
47.0	3642	4032	4734	4932	5004
47.5	3574	3974	4692	4884	4988
48.0	3504	3914	4652	4820	4984
48.5	3438	3856	4612	4764	4998
49.0	3370	3796	4560	4736	5010
49.5	3306	3740	4508	4732	5022
50.0	3242	3682	4456	4724	5064
50.5	3176	3622	4402	4712	5128
51.0	3114	3562	4356	4716	5186
51.5	3050	3504	4308	4740	5256
52.0	2988	3448	4260	4768	5322
52.5	2928	3392	4216	4796	5378
53.0	2870	3338	4174	4838	5406
53.5	2808	3282	4128	4884	5382
54.0	2750	3226	4078	4926	5336
54.5	2694	3174	4032	4952	5268

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55.0	2636	3122	3994	4964	5190
55.5	2582	3072	3960	4966	5128
56.0	2526	3024	3926	4938	5080
56.5	2472	2976	3892	4884	5032
57.0	2418	2924	3858	4816	4986
57.5	2364	2874	3834	4750	4942
58.0	2312	2820	3818	4682	4908
58.5	2258	2764	3814	4622	4870
59.0	2206	2710	3818	4566	4822
59.5	2152	2654	3824	4516	4762
60.0	2100	2598	3826	4472	4700
60.5	2046	2540	3822	4432	4656
61.0	1994	2484	3818	4400	4612
61.5	1940	2426	3810	4368	4552
62.0	1888	2370	3786	4324	4500
62.5	1834	2312	3748	4276	4450
63.0	1780	2254	3700	4230	4398
63.5	1730	2200	3640	4198	4348
64.0	1676	2144	3572	4166	4292
64.5	1624	2088	3506	4118	4230
65.0	1570	2034	3436	4060	4166
65.5	1518	1982	3372	4000	4106
66.0	1466	1930	3306	3936	4028
66.5	1414	1882	3250	3864	3942
67.0	1362	1832	3198	3792	3864
67.5	1312	1786	3152	3724	3796
68.0	1262	1742	3110	3654	3734
68.5	1212	1698	3070	3586	3680
69.0	1162	1658	3032	3518	3616
69.5	1114	1620	2992	3450	3548
70.0	1066	1584	2950	3380	3488
70.5	1020	1546	2902	3308	3430
71.0	974	1512	2854	3244	3368
71.5	928	1474	2802	3190	3310
72.0	884	1438	2746	3140	3252
72.5	842	1400	2688	3086	3194
73.0	800	1362	2626	3024	3122
73.5	758	1324	2562	2968	3042
74.0	718	1284	2496	2914	2952
74.5	680	1246	2432	2860	2858
75.0	642	1206	2366	2802	2752
75.5	604	1164	2302	2744	2656
76.0	568	1122	2238	2680	2560
76.5	534	1080	2178	2616	2458
77.0	500	1040	2122	2550	2362
77.5	468	998	2064	2478	2260
78.0	436	958	2008	2400	2162
78.5	406	918	1952	2318	2066
79.0	376	878	1898	2240	1976
79.5	348	840	1846	2160	1892
80.0	320	802	1794	2084	1816
80.5	294	766	1742	2006	1744
81.0	268	730	1692	1934	1678
81.5	244	696	1642	1866	1612
82.0	220	662	1592	1794	1548
82.5	198	630	1542	1724	1490

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83.0	176	598	1492	1654	1434
83.5	156	568	1446	1588	1382
84.0	136	538	1398	1520	1330
84.5	118	508	1352	1458	1284
85.0	100	480	1306	1394	1240
85.5	84	454	1264	1336	1200
86.0	70	430	1220	1282	1158
86.5	56	406	1178	1230	1116
87.0	44	384	1136	1182	1078
87.5	32	364	1096	1138	1040
88.0	24	346	1056	1096	1004
88.5	16	328	1018	1058	970
89.0	12	314	984	1022	936
89.5	6	302	950	988	900
90.0	0	290	918	956	868
90.5	0	282	890	924	836
91.0	0	274	862	894	806
91.5	0	266	836	866	780
92.0	2	258	812	838	754
92.5	2	252	788	814	728
93.0	2	246	762	788	704
93.5	2	242	740	766	682
94.0	4	238	716	742	662
94.5	4	234	696	722	640
95.0	6	230	674	702	622
95.5	6	228	654	682	604
96.0	8	224	636	664	586
96.5	8	222	616	646	570
97.0	10	220	598	628	554
97.5	10	218	582	610	540
98.0	12	218	564	596	526
98.5	14	218	548	580	512
99.0	14	218	534	566	498
99.5	16	218	520	554	486
100.0	18	218	506	540	476
100.5	20	220	494	526	466
101.0	22	220	480	514	456
101.5	22	224	470	502	448
102.0	24	226	458	490	438
102.5	26	230	448	480	430
103.0	28	232	438	470	422
103.5	30	234	428	460	416
104.0	32	236	420	450	408
104.5	34	238	412	440	402
105.0	36	240	404	430	396
105.5	38	242	398	420	392
106.0	40	244	392	412	386
106.5	42	246	388	404	382
107.0	44	248	384	396	376
107.5	46	248	380	388	372
108.0	48	250	378	384	366
108.5	50	250	376	378	362
109.0	52	250	374	372	358
109.5	54	250	372	368	354
110.0	56	250	374	364	352
110.5	58	250	374	360	348

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CANDELA TABULATION - (Cont.)

111.0	60	250	378	356	344
111.5	62	250	380	354	342
112.0	64	250	384	350	340
112.5	66	250	386	348	336
113.0	68	250	388	348	334
113.5	68	250	392	346	332
114.0	70	250	394	346	330
114.5	72	250	396	348	328
115.0	74	250	398	348	326
115.5	76	250	400	350	326
116.0	76	250	402	352	326
116.5	78	250	402	354	328
117.0	80	250	404	356	328
117.5	82	250	404	358	330
118.0	84	250	402	362	332
118.5	84	250	402	364	334
119.0	86	248	400	368	338
119.5	88	248	398	372	340
120.0	88	248	394	374	344
120.5	90	246	392	378	348
121.0	90	246	388	380	352
121.5	92	246	382	382	356
122.0	92	244	378	386	360
122.5	94	242	372	386	362
123.0	94	242	368	388	366
123.5	96	240	362	390	368
124.0	96	240	356	392	370
124.5	98	238	352	392	372
125.0	98	236	346	392	372
125.5	98	236	342	390	374
126.0	100	234	336	388	374
126.5	100	232	332	386	374
127.0	100	230	328	382	374
127.5	102	228	324	378	372
128.0	102	226	320	372	370
128.5	102	224	316	368	366
129.0	102	222	314	362	362
129.5	102	220	310	356	358
130.0	104	218	306	350	354
130.5	104	216	302	344	348
131.0	104	214	300	338	344
131.5	104	210	296	332	340
132.0	104	208	292	326	334
132.5	104	206	288	322	328
133.0	104	204	284	316	322
133.5	102	202	282	312	318
134.0	102	200	278	306	314
134.5	102	196	274	302	308
135.0	102	194	270	296	304
135.5	102	192	266	292	300
136.0	102	188	262	288	294
136.5	102	186	260	284	290
137.0	100	182	256	280	286
137.5	100	180	252	276	282
138.0	98	176	248	272	278
138.5	98	172	246	268	274

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CANDELA TABULATION - (Cont.)

139.0	96	170	242	264	270
139.5	96	166	238	260	266
140.0	94	164	234	256	262
140.5	92	160	230	254	258
141.0	92	158	226	250	254
141.5	90	156	222	248	252
142.0	88	152	218	244	248
142.5	88	150	214	242	244
143.0	86	146	210	240	242
143.5	84	144	206	236	240
144.0	84	142	204	232	238
144.5	82	138	200	230	236
145.0	80	136	196	226	234
145.5	80	134	192	224	230
146.0	78	130	190	220	228
146.5	78	128	186	216	226
147.0	76	126	182	214	222
147.5	74	124	180	210	220
148.0	74	120	176	206	216
148.5	72	118	174	204	212
149.0	72	116	170	200	210
149.5	70	114	168	196	206
150.0	70	112	164	194	202
150.5	70	110	160	190	200
151.0	68	108	158	186	196
151.5	68	106	154	182	192
152.0	66	104	152	180	190
152.5	66	100	148	176	186
153.0	64	98	146	172	182
153.5	64	96	142	170	180
154.0	64	94	140	166	176
154.5	62	92	136	162	172
155.0	62	90	134	158	168
155.5	62	86	130	156	166
156.0	60	84	128	152	162
156.5	60	82	124	148	158
157.0	60	80	122	146	154
157.5	60	78	118	142	152
158.0	60	78	116	138	148
158.5	58	76	112	136	144
159.0	58	74	110	132	140
159.5	58	72	108	130	138
160.0	58	70	104	126	134
160.5	58	70	102	124	130
161.0	58	70	100	120	128
161.5	58	70	96	116	124
162.0	58	72	94	114	120
162.5	58	74	92	110	118
163.0	58	78	90	108	114
163.5	60	78	88	104	112
164.0	60	78	84	102	108
164.5	60	76	82	100	106
165.0	60	76	80	96	102
165.5	62	74	78	94	98
166.0	62	72	74	92	96
166.5	62	72	72	90	94

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CANDELA TABULATION - (Cont.)

167.0	62	72	70	86	90
167.5	64	70	68	84	88
168.0	64	70	66	82	86
168.5	64	70	64	80	84
169.0	64	70	64	80	82
169.5	66	68	64	78	80
170.0	66	68	68	76	78
170.5	66	68	72	74	76
171.0	66	66	74	72	74
171.5	66	66	74	70	74
172.0	68	66	72	72	72
172.5	68	64	70	78	72
173.0	68	64	70	80	82
173.5	68	64	68	82	88
174.0	68	64	66	80	90
174.5	68	64	66	78	88
175.0	68	64	64	76	88
175.5	70	66	64	74	82
176.0	70	66	62	70	80
176.5	68	66	62	66	76
177.0	68	66	60	62	70
177.5	66	66	60	60	68
178.0	66	64	60	60	64
178.5	64	64	60	60	62
179.0	62	62	60	60	60
179.5	62	62	60	60	60
180.0	60	60	60	60	60

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2626.91	N.A.	10.70
0-30	5588.29	N.A.	22.90
0-40	9151.99	N.A.	37.50
0-60	16341.54	N.A.	66.90
0-80	21516.9	N.A.	88.10
0-90	22596.63	N.A.	92.50
10-90	21918.52	N.A.	89.70
20-40	6525.08	N.A.	26.70
20-50	10169.12	N.A.	41.60
40-70	10245.21	N.A.	41.90
60-80	5175.36	N.A.	21.20
70-80	2119.7	N.A.	8.70
80-90	1079.73	N.A.	4.40
90-110	883.02	N.A.	3.60
90-120	1181.34	N.A.	4.80
90-130	1449.72	N.A.	5.90
90-150	1750.59	N.A.	7.20
90-180	1839.78	N.A.	7.50
110-180	956.76	N.A.	3.90
0-180	24436.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	678.11
10-20	1948.8
20-30	2961.38
30-40	3563.7
40-50	3644.04
50-60	3545.51
60-70	3055.66
70-80	2119.7
80-90	1079.73
90-100	536.01
100-110	347.01
110-120	298.33
120-130	268.38
130-140	187.65
140-150	113.22
150-160	58.42
160-170	24.09
170-180	6.67

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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

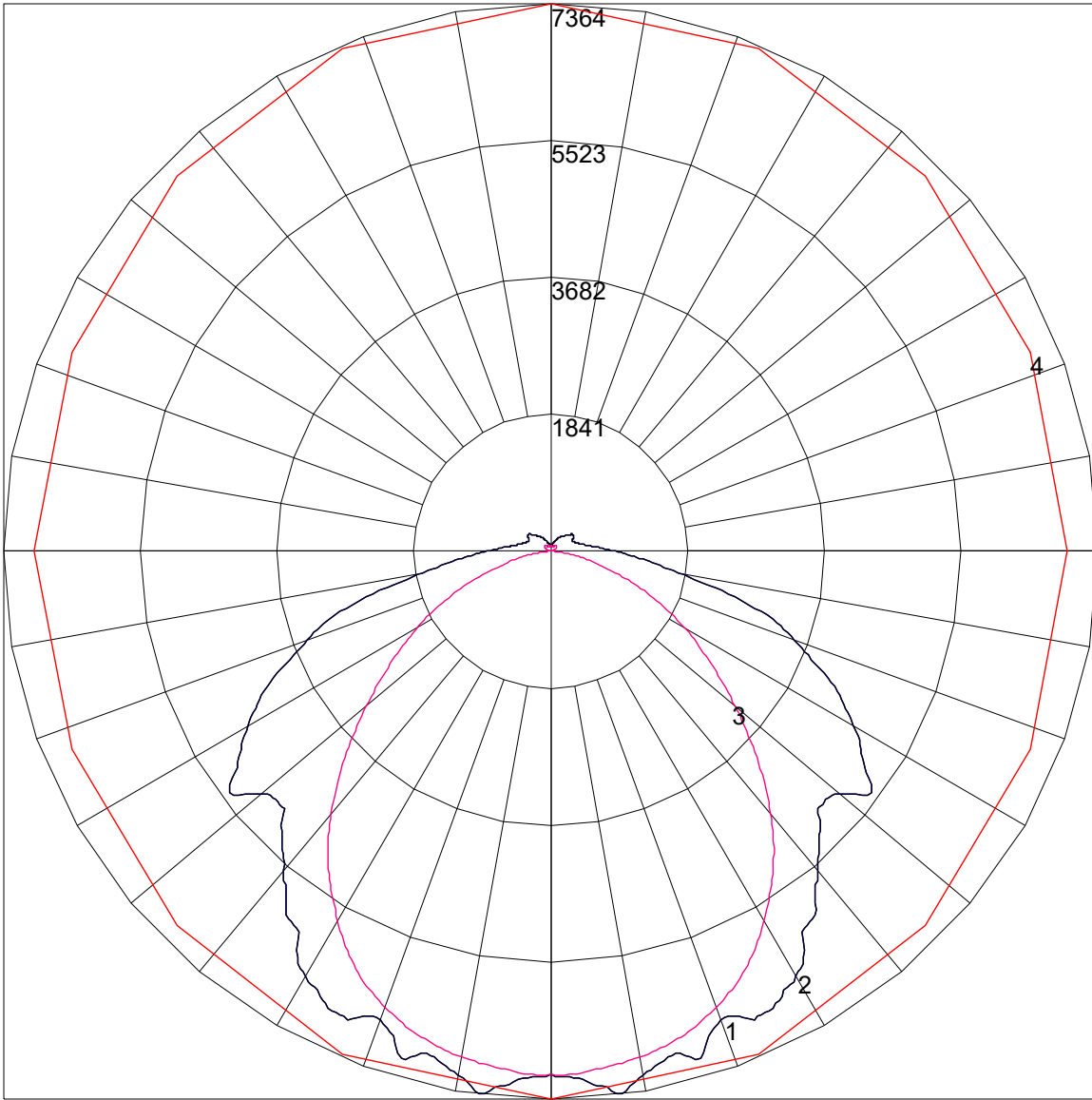
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-8-835-U10-XX-CA.IES

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	26.2	27.7	26.6	28.1	28.7
	3H	22.7	24.1	23.2	24.6	25.1	28.6	30.0	29.1	30.5	31.0
	4H	23.0	24.3	23.6	24.8	25.4	29.7	31.0	30.2	31.5	32.1
	6H	23.2	24.4	23.7	24.9	25.5	30.5	31.8	31.1	32.3	32.9
	8H	23.2	24.4	23.8	24.9	25.5	30.9	32.1	31.4	32.6	33.2
	12H	23.2	24.3	23.7	24.8	25.4	31.2	32.4	31.8	32.9	33.5
4H	2H	23.3	24.6	23.8	25.1	25.7	26.6	27.9	27.1	28.4	28.9
	3H	24.7	25.8	25.2	26.3	26.9	29.3	30.4	29.8	30.9	31.5
	4H	25.1	26.1	25.6	26.7	27.3	30.5	31.5	31.1	32.1	32.7
	6H	25.3	26.2	25.9	26.8	27.4	31.6	32.5	32.1	33.0	33.7
	8H	25.4	26.2	25.9	26.8	27.4	32.0	32.8	32.6	33.4	34.1
	12H	25.4	26.1	26.0	26.7	27.4	32.5	33.2	33.1	33.8	34.5
8H	4H	26.3	27.1	26.9	27.7	28.3	30.7	31.6	31.3	32.1	32.8
	6H	26.7	27.4	27.3	28.0	28.7	31.9	32.6	32.5	33.3	33.9
	8H	26.8	27.4	27.4	28.1	28.7	32.5	33.1	33.1	33.8	34.4
	12H	26.9	27.4	27.5	28.0	28.8	33.1	33.7	33.7	34.3	35.0
12H	4H	26.5	27.3	27.1	27.9	28.5	30.7	31.5	31.3	32.1	32.7
	6H	27.1	27.8	27.8	28.4	29.1	32.0	32.6	32.6	33.2	33.9
	8H	27.3	27.9	28.0	28.5	29.3	32.6	33.2	33.2	33.8	34.5

Maximum UGR = 35.0

POLAR GRAPH



Maximum Candela = 7364 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.)