



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLIA001669-011_modified to 8ft length
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 4/6/2022
 [MANUFAC] Lux Dynamics
 [LUMCAT] BASE-8-835-U10-SM-N-CA
 [LUMINAIRE] BASE LINE Series, 8ft Length, 80CRI, 3500K, Tested with U10 Driver
 [MORE] Clear Acrylic lens, Narrow Optic
 [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	24234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	155.86
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
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	46488	44583	36747
55	38245	38669	27943
65	29953	31321	21514
75	19416	22937	14416
85	8429	13885	7047

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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	9822	9822	9822	9822	9822
0.5	9808	9808	9808	9812	9816
1.0	9812	9808	9812	9824	9832
1.5	9820	9812	9828	9848	9856
2.0	9808	9800	9828	9834	9840
2.5	9792	9792	9810	9814	9834
3.0	9788	9796	9792	9840	9870
3.5	9778	9796	9788	9862	9892
4.0	9766	9786	9804	9884	9934
4.5	9746	9760	9814	9926	9994
5.0	9720	9722	9818	9984	10036
5.5	9704	9692	9834	9990	10004
6.0	9688	9674	9862	9962	9994
6.5	9670	9662	9892	9954	10024
7.0	9646	9662	9896	9972	10006
7.5	9626	9660	9878	9962	9962
8.0	9600	9650	9850	9916	9932
8.5	9574	9640	9836	9884	9868
9.0	9544	9626	9836	9838	9804
9.5	9520	9612	9830	9770	9722
10.0	9486	9602	9794	9702	9688
10.5	9454	9590	9752	9632	9684
11.0	9418	9582	9714	9614	9668
11.5	9382	9570	9672	9602	9668
12.0	9354	9564	9612	9590	9624
12.5	9316	9550	9548	9578	9586
13.0	9274	9528	9484	9534	9562
13.5	9234	9494	9410	9494	9592
14.0	9190	9460	9362	9470	9642
14.5	9144	9418	9342	9478	9660
15.0	9098	9376	9324	9526	9632
15.5	9054	9332	9296	9554	9574
16.0	9010	9290	9268	9532	9496
16.5	8958	9248	9224	9478	9414
17.0	8910	9206	9172	9412	9328
17.5	8860	9156	9128	9332	9258
18.0	8810	9106	9094	9256	9196
18.5	8760	9052	9070	9184	9080
19.0	8708	9000	9076	9116	8988
19.5	8652	8944	9096	9040	8926
20.0	8594	8886	9094	8924	8880
20.5	8536	8830	9058	8838	8814
21.0	8482	8772	8998	8784	8742
21.5	8420	8708	8942	8734	8696
22.0	8360	8636	8868	8666	8670
22.5	8300	8570	8794	8594	8666
23.0	8236	8498	8728	8544	8620
23.5	8168	8430	8678	8504	8558
24.0	8104	8364	8626	8482	8482
24.5	8032	8294	8550	8460	8384
25.0	7970	8230	8450	8410	8302
25.5	7900	8158	8340	8354	8226
26.0	7832	8090	8254	8270	8168
26.5	7762	8026	8190	8178	8122

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CANDELA TABULATION - (Cont.)

27.0	7694	7958	8136	8102	8076
27.5	7626	7890	8072	8028	7988
28.0	7558	7824	8012	7968	7886
28.5	7490	7760	7954	7924	7784
29.0	7424	7696	7894	7868	7680
29.5	7354	7634	7836	7790	7582
30.0	7282	7568	7778	7690	7506
30.5	7212	7506	7720	7586	7430
31.0	7138	7442	7668	7484	7346
31.5	7066	7382	7628	7388	7278
32.0	6988	7320	7584	7310	7222
32.5	6914	7258	7528	7248	7138
33.0	6834	7196	7468	7178	7046
33.5	6750	7138	7398	7094	6940
34.0	6672	7080	7314	7024	6846
34.5	6590	7016	7224	6956	6792
35.0	6506	6954	7144	6872	6754
35.5	6422	6884	7072	6778	6688
36.0	6338	6806	7000	6684	6612
36.5	6254	6726	6932	6600	6520
37.0	6172	6644	6862	6554	6414
37.5	6088	6558	6794	6504	6308
38.0	6008	6468	6726	6436	6234
38.5	5928	6380	6648	6366	6160
39.0	5844	6288	6560	6288	6062
39.5	5766	6202	6476	6200	5962
40.0	5686	6118	6404	6106	5868
40.5	5604	6040	6346	6028	5766
41.0	5526	5964	6284	5956	5668
41.5	5442	5888	6218	5878	5590
42.0	5360	5812	6148	5784	5536
42.5	5274	5734	6064	5686	5470
43.0	5194	5652	5978	5584	5378
43.5	5108	5568	5890	5488	5278
44.0	5026	5488	5796	5418	5182
44.5	4942	5406	5714	5358	5068
45.0	4862	5322	5642	5292	4966
45.5	4780	5236	5572	5208	4884
46.0	4698	5146	5500	5110	4816
46.5	4618	5058	5430	5020	4746
47.0	4536	4968	5364	4926	4672
47.5	4456	4884	5300	4834	4606
48.0	4372	4800	5236	4750	4528
48.5	4292	4724	5168	4678	4426
49.0	4210	4644	5094	4604	4332
49.5	4128	4570	5024	4532	4250
50.0	4048	4498	4958	4458	4160
50.5	3964	4426	4890	4380	4068
51.0	3884	4358	4820	4296	3976
51.5	3802	4286	4748	4204	3896
52.0	3722	4212	4676	4122	3818
52.5	3642	4136	4604	4038	3734
53.0	3564	4060	4536	3958	3664
53.5	3484	3980	4472	3872	3586
54.0	3408	3904	4408	3788	3514
54.5	3332	3830	4344	3714	3446

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55.0	3256	3752	4276	3634	3368
55.5	3184	3676	4204	3554	3290
56.0	3110	3600	4132	3478	3224
56.5	3038	3524	4064	3406	3168
57.0	2966	3448	3994	3334	3116
57.5	2896	3374	3926	3264	3068
58.0	2826	3302	3850	3188	3006
58.5	2756	3232	3776	3116	2944
59.0	2688	3164	3700	3056	2880
59.5	2618	3096	3628	2996	2816
60.0	2550	3026	3560	2942	2750
60.5	2482	2956	3490	2888	2686
61.0	2416	2886	3422	2828	2628
61.5	2348	2814	3348	2764	2574
62.0	2282	2742	3276	2704	2520
62.5	2216	2670	3204	2644	2466
63.0	2150	2598	3132	2582	2416
63.5	2086	2528	3064	2520	2358
64.0	2020	2458	2996	2460	2298
64.5	1956	2390	2928	2404	2248
65.0	1890	2324	2858	2348	2200
65.5	1826	2256	2790	2294	2152
66.0	1762	2190	2722	2238	2108
66.5	1698	2126	2656	2184	2056
67.0	1636	2060	2590	2128	2002
67.5	1574	1998	2524	2078	1952
68.0	1514	1936	2458	2030	1900
68.5	1452	1874	2390	1982	1850
69.0	1394	1814	2326	1938	1800
69.5	1334	1752	2258	1892	1742
70.0	1276	1694	2194	1846	1680
70.5	1220	1634	2128	1798	1618
71.0	1164	1576	2066	1750	1564
71.5	1108	1518	2004	1700	1514
72.0	1056	1462	1944	1654	1470
72.5	1004	1406	1886	1606	1424
73.0	952	1350	1826	1558	1376
73.5	902	1298	1766	1506	1324
74.0	854	1242	1706	1456	1268
74.5	806	1190	1646	1408	1216
75.0	760	1138	1586	1364	1166
75.5	716	1086	1528	1322	1122
76.0	672	1034	1470	1278	1076
76.5	630	984	1414	1232	1032
77.0	592	936	1358	1184	986
77.5	552	888	1302	1136	940
78.0	514	842	1248	1088	896
78.5	478	798	1194	1042	852
79.0	442	756	1142	998	808
79.5	408	712	1092	958	766
80.0	376	672	1042	918	728
80.5	344	634	994	878	690
81.0	314	596	948	840	654
81.5	286	558	904	802	620
82.0	258	522	860	764	586
82.5	232	488	818	726	554

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83.0	206	454	776	690	520
83.5	182	422	738	654	488
84.0	160	392	698	618	456
84.5	138	362	662	586	430
85.0	118	332	624	554	402
85.5	100	306	590	522	378
86.0	82	282	558	494	356
86.5	66	258	526	464	334
87.0	52	236	498	438	314
87.5	40	216	470	412	296
88.0	28	196	444	390	278
88.5	20	180	422	368	260
89.0	14	168	402	348	246
89.5	8	156	384	330	232
90.0	0	148	368	314	220
90.5	0	140	354	300	210
91.0	0	134	340	286	200
91.5	0	128	330	274	192
92.0	0	122	322	264	186
92.5	0	118	312	254	180
93.0	2	114	302	244	174
93.5	2	110	294	236	168
94.0	2	106	284	226	164
94.5	2	102	276	218	158
95.0	4	100	268	212	154
95.5	4	96	260	204	150
96.0	4	94	252	198	148
96.5	4	92	244	192	144
97.0	6	90	236	186	140
97.5	6	90	228	182	138
98.0	6	88	222	176	136
98.5	8	88	214	170	134
99.0	8	88	208	166	130
99.5	10	88	200	162	128
100.0	10	90	194	158	126
100.5	10	92	188	154	124
101.0	12	96	182	150	124
101.5	12	98	178	148	122
102.0	14	104	172	144	120
102.5	14	108	168	142	118
103.0	14	114	162	138	116
103.5	16	120	158	136	116
104.0	16	126	154	134	114
104.5	16	132	152	132	112
105.0	18	136	148	130	112
105.5	18	142	146	128	110
106.0	20	148	142	126	110
106.5	20	154	140	126	108
107.0	20	158	140	124	108
107.5	22	162	140	122	108
108.0	22	166	140	122	106
108.5	22	170	140	120	106
109.0	22	172	142	120	106
109.5	22	174	142	120	104
110.0	24	176	144	120	104
110.5	24	178	148	120	104

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CANDELA TABULATION - (Cont.)

111.0	24	180	152	118	104
111.5	24	182	158	118	104
112.0	24	182	164	120	104
112.5	24	184	172	120	104
113.0	24	184	180	120	104
113.5	24	184	188	122	106
114.0	26	186	196	122	106
114.5	26	186	206	124	106
115.0	26	186	214	126	108
115.5	26	186	222	128	108
116.0	26	186	230	130	110
116.5	26	188	236	134	112
117.0	28	188	242	138	114
117.5	28	188	248	144	116
118.0	28	188	254	150	118
118.5	28	188	258	156	122
119.0	28	186	262	162	126
119.5	28	186	264	170	132
120.0	28	186	266	178	136
120.5	28	184	266	186	144
121.0	28	184	266	192	150
121.5	28	182	266	200	158
122.0	28	182	264	206	164
122.5	28	180	262	212	172
123.0	28	178	260	218	178
123.5	28	176	258	226	186
124.0	28	174	256	232	192
124.5	28	172	254	238	198
125.0	28	170	250	242	204
125.5	28	168	248	246	208
126.0	28	166	246	250	214
126.5	28	162	244	250	220
127.0	28	160	242	250	224
127.5	28	156	238	250	226
128.0	28	154	238	250	230
128.5	28	150	236	248	230
129.0	28	146	234	246	232
129.5	28	142	232	242	232
130.0	28	140	230	240	230
130.5	28	136	228	236	230
131.0	28	132	226	232	226
131.5	28	128	222	230	224
132.0	28	126	220	226	222
132.5	28	122	218	222	220
133.0	28	118	214	220	218
133.5	28	114	212	218	214
134.0	28	110	208	214	212
134.5	28	108	206	210	208
135.0	28	104	202	208	206
135.5	28	100	200	206	204
136.0	28	96	196	202	200
136.5	28	92	194	200	198
137.0	28	90	192	198	196
137.5	28	86	188	196	192
138.0	28	82	186	194	190
138.5	28	80	184	192	188

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CANDELA TABULATION - (Cont.)

139.0	26	76	180	190	186
139.5	26	74	178	188	184
140.0	26	72	174	186	184
140.5	26	68	170	184	182
141.0	26	66	168	182	180
141.5	26	64	164	180	178
142.0	26	62	160	178	176
142.5	26	60	156	176	176
143.0	24	58	152	176	174
143.5	24	56	148	174	172
144.0	24	54	144	172	172
144.5	24	52	140	170	170
145.0	24	52	136	170	170
145.5	24	50	132	168	168
146.0	24	48	126	166	168
146.5	24	48	124	162	166
147.0	24	46	120	160	166
147.5	22	46	116	158	164
148.0	22	44	112	154	162
148.5	24	44	108	150	160
149.0	22	42	104	148	158
149.5	22	42	102	144	154
150.0	22	40	98	140	152
150.5	22	40	94	136	148
151.0	22	38	90	130	144
151.5	22	38	86	126	140
152.0	22	36	84	122	136
152.5	20	36	80	118	132
153.0	20	34	76	114	128
153.5	20	34	72	110	124
154.0	20	32	70	106	120
154.5	20	32	66	104	116
155.0	20	32	64	100	112
155.5	20	30	60	96	108
156.0	20	30	58	92	104
156.5	20	30	56	88	100
157.0	20	28	54	84	96
157.5	20	28	52	80	92
158.0	20	28	50	76	88
158.5	20	28	48	72	84
159.0	20	26	46	68	80
159.5	20	26	44	66	76
160.0	20	26	42	62	72
160.5	20	26	40	58	68
161.0	20	26	40	56	64
161.5	20	26	38	52	60
162.0	20	26	38	50	58
162.5	22	26	36	48	54
163.0	22	26	34	46	52
163.5	22	26	34	44	48
164.0	22	26	32	42	46
164.5	22	26	32	40	44
165.0	22	26	30	38	42
165.5	22	26	30	38	40
166.0	22	24	28	36	38
166.5	22	24	28	34	38

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CANDELA TABULATION - (Cont.)

167.0	22	24	28	34	36
167.5	22	24	26	32	34
168.0	22	24	26	32	34
168.5	22	24	26	30	32
169.0	22	24	26	30	32
169.5	22	24	26	30	30
170.0	22	24	26	28	30
170.5	22	24	26	28	30
171.0	22	24	26	28	28
171.5	22	22	26	28	28
172.0	22	22	24	28	28
172.5	22	22	24	28	28
173.0	22	22	24	28	28
173.5	22	22	24	26	28
174.0	22	22	24	26	28
174.5	22	22	22	26	28
175.0	22	22	22	26	28
175.5	22	22	22	24	26
176.0	22	22	22	24	26
176.5	22	22	22	22	24
177.0	22	22	20	22	24
177.5	22	22	20	20	22
178.0	22	22	20	20	22
178.5	22	22	20	20	20
179.0	20	20	20	20	20
179.5	20	20	20	20	20
180.0	20	20	20	20	20

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3573.47	N.A.	14.70
0-30	7388.45	N.A.	30.50
0-40	11692.44	N.A.	48.20
0-60	19130.89	N.A.	78.90
0-80	22854.65	N.A.	94.30
0-90	23363.7	N.A.	96.40
10-90	22428.55	N.A.	92.60
20-40	8118.97	N.A.	33.50
20-50	12203.48	N.A.	50.40
40-70	9817.33	N.A.	40.50
60-80	3723.76	N.A.	15.40
70-80	1344.87	N.A.	5.50
80-90	509.05	N.A.	2.10
90-110	314.21	N.A.	1.30
90-120	461.99	N.A.	1.90
90-130	632.41	N.A.	2.60
90-150	827.22	N.A.	3.40
90-180	870.26	N.A.	3.60
110-180	556.04	N.A.	2.30
0-180	24233.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	935.15
10-20	2638.32
20-30	3814.98
30-40	4303.99
40-50	4084.5
50-60	3353.95
60-70	2378.88
70-80	1344.88
80-90	509.05
90-100	185.07
100-110	129.14
110-120	147.78
120-130	170.42
130-140	123.24
140-150	71.56
150-160	31.18
160-170	9.54
170-180	2.32

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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	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	104	100	96	105	101	97	94	96	93	90	92	89	87	88	86	84	82
2	99	91	85	79	96	89	83	78	85	80	76	81	77	73	78	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	83	72	64	57	81	70	63	57	67	61	55	65	59	54	62	57	53	51
5	77	65	56	50	75	63	55	49	61	54	48	59	52	48	56	51	47	45
6	71	58	50	44	69	57	49	43	55	48	43	53	47	42	51	46	41	39
7	66	53	45	39	64	52	44	39	50	43	38	49	42	38	47	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	45	38	34	43	38	33	32
9	58	45	37	32	56	44	37	31	43	36	31	41	35	31	40	35	30	29
10	54	42	34	29	53	41	34	29	40	33	28	39	32	28	37	32	28	26

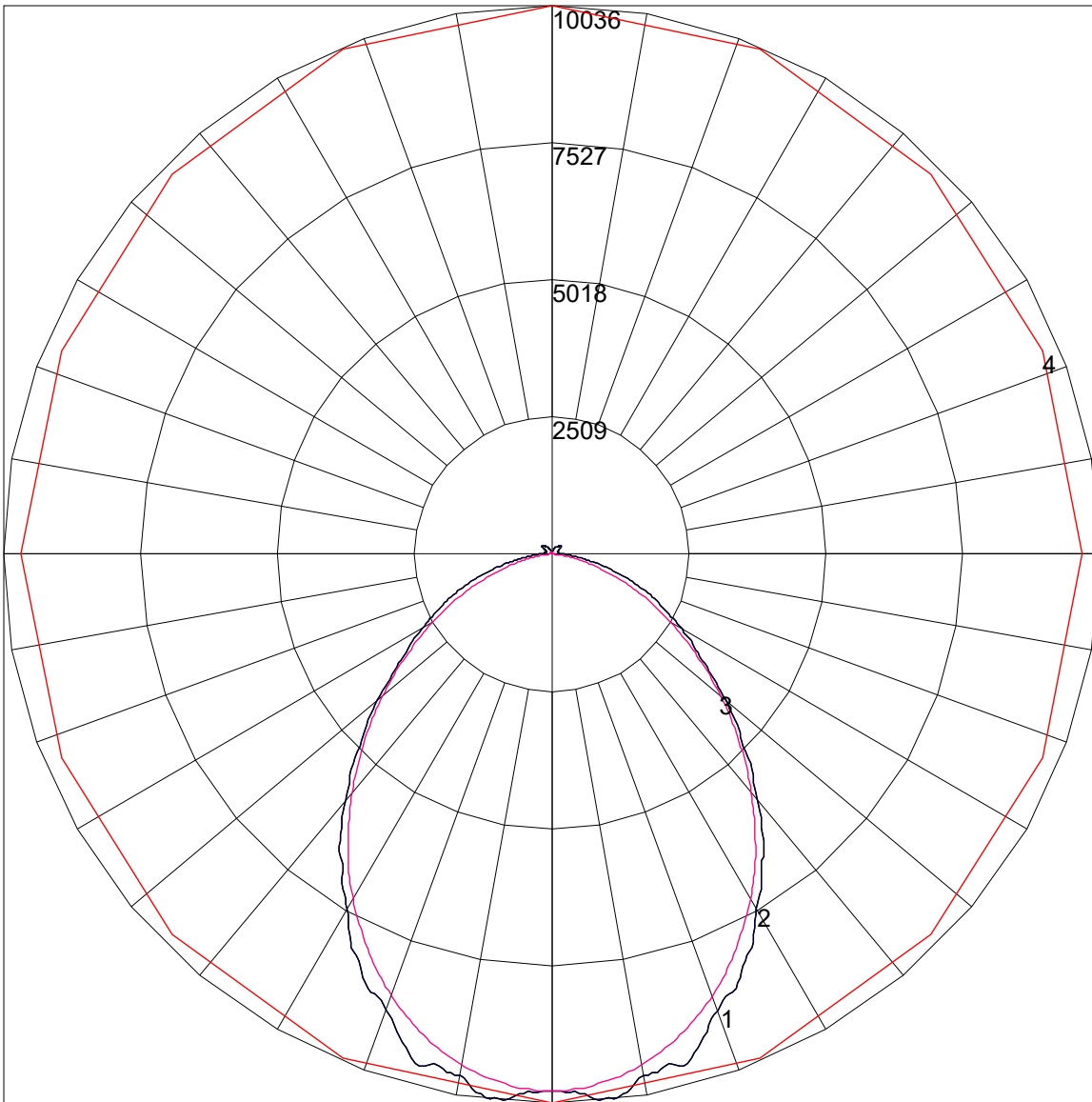
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BASE-8-835-U10-XX-N-CA.IES

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	23.1	24.6	23.5	25.0	25.4	23.7	25.2	24.2	25.6	26.0
	3H	24.1	25.5	24.6	25.9	26.3	25.4	26.7	25.9	27.2	27.6
	4H	24.4	25.7	24.9	26.1	26.6	26.0	27.3	26.5	27.7	28.2
	6H	24.5	25.7	25.0	26.1	26.6	26.5	27.7	27.0	28.1	28.6
	8H	24.5	25.6	25.0	26.1	26.6	26.7	27.8	27.2	28.3	28.8
	12H	24.5	25.6	25.0	26.0	26.5	26.8	27.9	27.3	28.4	28.9
4H	2H	24.0	25.2	24.4	25.6	26.1	24.5	25.7	24.9	26.1	26.6
	3H	25.3	26.3	25.7	26.8	27.3	26.3	27.3	26.8	27.8	28.3
	4H	25.6	26.6	26.1	27.1	27.6	27.0	28.0	27.5	28.5	29.0
	6H	25.8	26.6	26.3	27.2	27.7	27.6	28.5	28.1	29.0	29.5
	8H	25.8	26.6	26.3	27.1	27.7	27.8	28.6	28.4	29.1	29.7
	12H	25.8	26.5	26.4	27.1	27.6	28.0	28.7	28.6	29.3	29.8
8H	4H	26.0	26.8	26.6	27.3	27.9	27.3	28.1	27.8	28.6	29.1
	6H	26.4	27.0	26.9	27.6	28.1	28.0	28.7	28.6	29.2	29.8
	8H	26.4	27.0	27.0	27.6	28.2	28.3	28.9	28.9	29.5	30.1
	12H	26.5	27.0	27.0	27.5	28.2	28.6	29.1	29.2	29.7	30.3
12H	4H	26.1	26.8	26.6	27.3	27.9	27.3	28.0	27.8	28.5	29.1
	6H	26.5	27.1	27.1	27.6	28.2	28.1	28.6	28.6	29.2	29.8
	8H	26.6	27.1	27.2	27.7	28.3	28.4	28.9	29.0	29.5	30.1

Maximum UGR = 30.3

POLAR GRAPH



- Maximum Candela = 10036 Located At Horizontal Angle = 90, Vertical Angle = 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 (5) (Through Max. Cd.)