



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA001669-011  
 [TESTLAB] LightLab International Allentown, LLC  
 [ISSUEDATE] 4/6/2022  
 [MANUFAC] Lux Dynamics  
 [LUMCAT] BASE-4-835-U10-SM-N-CA  
 [LUMINAIRE] BASE Line LED Fixture, 4' Length, 3500K, Narrow Optics Reflectors,  
 [MORE] Clear 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, 0.2915A, 77.93W, 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	12117
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	77.93
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)	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	46108	44370	36747
55	37802	38424	27943
65	29438	31056	21514
75	18849	22665	14416
85	7757	13625	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>
<b>0.0</b>	4911	4911	4911	4911	4911
<b>0.5</b>	4904	4904	4904	4906	4908
<b>1.0</b>	4906	4904	4906	4912	4916
<b>1.5</b>	4910	4906	4914	4924	4928
<b>2.0</b>	4904	4900	4914	4917	4920
<b>2.5</b>	4896	4896	4905	4907	4917
<b>3.0</b>	4894	4898	4896	4920	4935
<b>3.5</b>	4889	4898	4894	4931	4946
<b>4.0</b>	4883	4893	4902	4942	4967
<b>4.5</b>	4873	4880	4907	4963	4997
<b>5.0</b>	4860	4861	4909	4992	5018
<b>5.5</b>	4852	4846	4917	4995	5002
<b>6.0</b>	4844	4837	4931	4981	4997
<b>6.5</b>	4835	4831	4946	4977	5012
<b>7.0</b>	4823	4831	4948	4986	5003
<b>7.5</b>	4813	4830	4939	4981	4981
<b>8.0</b>	4800	4825	4925	4958	4966
<b>8.5</b>	4787	4820	4918	4942	4934
<b>9.0</b>	4772	4813	4918	4919	4902
<b>9.5</b>	4760	4806	4915	4885	4861
<b>10.0</b>	4743	4801	4897	4851	4844
<b>10.5</b>	4727	4795	4876	4816	4842
<b>11.0</b>	4709	4791	4857	4807	4834
<b>11.5</b>	4691	4785	4836	4801	4834
<b>12.0</b>	4677	4782	4806	4795	4812
<b>12.5</b>	4658	4775	4774	4789	4793
<b>13.0</b>	4637	4764	4742	4767	4781
<b>13.5</b>	4617	4747	4705	4747	4796
<b>14.0</b>	4595	4730	4681	4735	4821
<b>14.5</b>	4572	4709	4671	4739	4830
<b>15.0</b>	4549	4688	4662	4763	4816
<b>15.5</b>	4527	4666	4648	4777	4787
<b>16.0</b>	4505	4645	4634	4766	4748
<b>16.5</b>	4479	4624	4612	4739	4707
<b>17.0</b>	4455	4603	4586	4706	4664
<b>17.5</b>	4430	4578	4564	4666	4629
<b>18.0</b>	4405	4553	4547	4628	4598
<b>18.5</b>	4380	4526	4535	4592	4540
<b>19.0</b>	4354	4500	4538	4558	4494
<b>19.5</b>	4326	4472	4548	4520	4463
<b>20.0</b>	4297	4443	4547	4462	4440
<b>20.5</b>	4268	4415	4529	4419	4407
<b>21.0</b>	4241	4386	4499	4392	4371
<b>21.5</b>	4210	4354	4471	4367	4348
<b>22.0</b>	4180	4318	4434	4333	4335
<b>22.5</b>	4150	4285	4397	4297	4333
<b>23.0</b>	4118	4249	4364	4272	4310
<b>23.5</b>	4084	4215	4339	4252	4279
<b>24.0</b>	4052	4182	4313	4241	4241
<b>24.5</b>	4016	4147	4275	4230	4192
<b>25.0</b>	3985	4115	4225	4205	4151
<b>25.5</b>	3950	4079	4170	4177	4113
<b>26.0</b>	3916	4045	4127	4135	4084
<b>26.5</b>	3881	4013	4095	4089	4061

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**CANDELA TABULATION - (Cont.)**

27.0	3847	3979	4068	4051	4038
27.5	3813	3945	4036	4014	3994
28.0	3779	3912	4006	3984	3943
28.5	3745	3880	3977	3962	3892
29.0	3712	3848	3947	3934	3840
29.5	3677	3817	3918	3895	3791
30.0	3641	3784	3889	3845	3753
30.5	3606	3753	3860	3793	3715
31.0	3569	3721	3834	3742	3673
31.5	3533	3691	3814	3694	3639
32.0	3494	3660	3792	3655	3611
32.5	3457	3629	3764	3624	3569
33.0	3417	3598	3734	3589	3523
33.5	3375	3569	3699	3547	3470
34.0	3336	3540	3657	3512	3423
34.5	3295	3508	3612	3478	3396
35.0	3253	3477	3572	3436	3377
35.5	3211	3442	3536	3389	3344
36.0	3169	3403	3500	3342	3306
36.5	3127	3363	3466	3300	3260
37.0	3086	3322	3431	3277	3207
37.5	3044	3279	3397	3252	3154
38.0	3004	3234	3363	3218	3117
38.5	2964	3190	3324	3183	3080
39.0	2922	3144	3280	3144	3031
39.5	2883	3101	3238	3100	2981
40.0	2843	3059	3202	3053	2934
40.5	2802	3020	3173	3014	2883
41.0	2763	2982	3142	2978	2834
41.5	2721	2944	3109	2939	2795
42.0	2680	2906	3074	2892	2768
42.5	2637	2867	3032	2843	2735
43.0	2597	2826	2989	2792	2689
43.5	2554	2784	2945	2744	2639
44.0	2513	2744	2898	2709	2591
44.5	2471	2703	2857	2679	2534
45.0	2431	2661	2821	2646	2483
45.5	2390	2618	2786	2604	2442
46.0	2349	2573	2750	2555	2408
46.5	2309	2529	2715	2510	2373
47.0	2268	2484	2682	2463	2336
47.5	2228	2442	2650	2417	2303
48.0	2186	2400	2618	2375	2264
48.5	2146	2362	2584	2339	2213
49.0	2105	2322	2547	2302	2166
49.5	2064	2285	2512	2266	2125
50.0	2024	2249	2479	2229	2080
50.5	1982	2213	2445	2190	2034
51.0	1942	2179	2410	2148	1988
51.5	1901	2143	2374	2102	1948
52.0	1861	2106	2338	2061	1909
52.5	1821	2068	2302	2019	1867
53.0	1782	2030	2268	1979	1832
53.5	1742	1990	2236	1936	1793
54.0	1704	1952	2204	1894	1757
54.5	1666	1915	2172	1857	1723

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**CANDELA TABULATION - (Cont.)**

55.0	1628	1876	2138	1817	1684
55.5	1592	1838	2102	1777	1645
56.0	1555	1800	2066	1739	1612
56.5	1519	1762	2032	1703	1584
57.0	1483	1724	1997	1667	1558
57.5	1448	1687	1963	1632	1534
58.0	1413	1651	1925	1594	1503
58.5	1378	1616	1888	1558	1472
59.0	1344	1582	1850	1528	1440
59.5	1309	1548	1814	1498	1408
60.0	1275	1513	1780	1471	1375
60.5	1241	1478	1745	1444	1343
61.0	1208	1443	1711	1414	1314
61.5	1174	1407	1674	1382	1287
62.0	1141	1371	1638	1352	1260
62.5	1108	1335	1602	1322	1233
63.0	1075	1299	1566	1291	1208
63.5	1043	1264	1532	1260	1179
64.0	1010	1229	1498	1230	1149
64.5	978	1195	1464	1202	1124
65.0	945	1162	1429	1174	1100
65.5	913	1128	1395	1147	1076
66.0	881	1095	1361	1119	1054
66.5	849	1063	1328	1092	1028
67.0	818	1030	1295	1064	1001
67.5	787	999	1262	1039	976
68.0	757	968	1229	1015	950
68.5	726	937	1195	991	925
69.0	697	907	1163	969	900
69.5	667	876	1129	946	871
70.0	638	847	1097	923	840
70.5	610	817	1064	899	809
71.0	582	788	1033	875	782
71.5	554	759	1002	850	757
72.0	528	731	972	827	735
72.5	502	703	943	803	712
73.0	476	675	913	779	688
73.5	451	649	883	753	662
74.0	427	621	853	728	634
74.5	403	595	823	704	608
75.0	380	569	793	682	583
75.5	358	543	764	661	561
76.0	336	517	735	639	538
76.5	315	492	707	616	516
77.0	296	468	679	592	493
77.5	276	444	651	568	470
78.0	257	421	624	544	448
78.5	239	399	597	521	426
79.0	221	378	571	499	404
79.5	204	356	546	479	383
80.0	188	336	521	459	364
80.5	172	317	497	439	345
81.0	157	298	474	420	327
81.5	143	279	452	401	310
82.0	129	261	430	382	293
82.5	116	244	409	363	277

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**CANDELA TABULATION - (Cont.)**

83.0	103	227	388	345	260
83.5	91	211	369	327	244
84.0	80	196	349	309	228
84.5	69	181	331	293	215
85.0	59	166	312	277	201
85.5	50	153	295	261	189
86.0	41	141	279	247	178
86.5	33	129	263	232	167
87.0	26	118	249	219	157
87.5	20	108	235	206	148
88.0	14	98	222	195	139
88.5	10	90	211	184	130
89.0	7	84	201	174	123
89.5	4	78	192	165	116
90.0	0	74	184	157	110
90.5	0	70	177	150	105
91.0	0	67	170	143	100
91.5	0	64	165	137	96
92.0	0	61	161	132	93
92.5	0	59	156	127	90
93.0	1	57	151	122	87
93.5	1	55	147	118	84
94.0	1	53	142	113	82
94.5	1	51	138	109	79
95.0	2	50	134	106	77
95.5	2	48	130	102	75
96.0	2	47	126	99	74
96.5	2	46	122	96	72
97.0	3	45	118	93	70
97.5	3	45	114	91	69
98.0	3	44	111	88	68
98.5	4	44	107	85	67
99.0	4	44	104	83	65
99.5	5	44	100	81	64
100.0	5	45	97	79	63
100.5	5	46	94	77	62
101.0	6	48	91	75	62
101.5	6	49	89	74	61
102.0	7	52	86	72	60
102.5	7	54	84	71	59
103.0	7	57	81	69	58
103.5	8	60	79	68	58
104.0	8	63	77	67	57
104.5	8	66	76	66	56
105.0	9	68	74	65	56
105.5	9	71	73	64	55
106.0	10	74	71	63	55
106.5	10	77	70	63	54
107.0	10	79	70	62	54
107.5	11	81	70	61	54
108.0	11	83	70	61	53
108.5	11	85	70	60	53
109.0	11	86	71	60	53
109.5	11	87	71	60	52
110.0	12	88	72	60	52
110.5	12	89	74	60	52

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**CANDELA TABULATION - (Cont.)**

111.0	12	90	76	59	52
111.5	12	91	79	59	52
112.0	12	91	82	60	52
112.5	12	92	86	60	52
113.0	12	92	90	60	52
113.5	12	92	94	61	53
114.0	13	93	98	61	53
114.5	13	93	103	62	53
115.0	13	93	107	63	54
115.5	13	93	111	64	54
116.0	13	93	115	65	55
116.5	13	94	118	67	56
117.0	14	94	121	69	57
117.5	14	94	124	72	58
118.0	14	94	127	75	59
118.5	14	94	129	78	61
119.0	14	93	131	81	63
119.5	14	93	132	85	66
120.0	14	93	133	89	68
120.5	14	92	133	93	72
121.0	14	92	133	96	75
121.5	14	91	133	100	79
122.0	14	91	132	103	82
122.5	14	90	131	106	86
123.0	14	89	130	109	89
123.5	14	88	129	113	93
124.0	14	87	128	116	96
124.5	14	86	127	119	99
125.0	14	85	125	121	102
125.5	14	84	124	123	104
126.0	14	83	123	125	107
126.5	14	81	122	125	110
127.0	14	80	121	125	112
127.5	14	78	119	125	113
128.0	14	77	119	125	115
128.5	14	75	118	124	115
129.0	14	73	117	123	116
129.5	14	71	116	121	116
130.0	14	70	115	120	115
130.5	14	68	114	118	115
131.0	14	66	113	116	113
131.5	14	64	111	115	112
132.0	14	63	110	113	111
132.5	14	61	109	111	110
133.0	14	59	107	110	109
133.5	14	57	106	109	107
134.0	14	55	104	107	106
134.5	14	54	103	105	104
135.0	14	52	101	104	103
135.5	14	50	100	103	102
136.0	14	48	98	101	100
136.5	14	46	97	100	99
137.0	14	45	96	99	98
137.5	14	43	94	98	96
138.0	14	41	93	97	95
138.5	14	40	92	96	94

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**CANDELA TABULATION - (Cont.)**

139.0	13	38	90	95	93
139.5	13	37	89	94	92
140.0	13	36	87	93	92
140.5	13	34	85	92	91
141.0	13	33	84	91	90
141.5	13	32	82	90	89
142.0	13	31	80	89	88
142.5	13	30	78	88	88
143.0	12	29	76	88	87
143.5	12	28	74	87	86
144.0	12	27	72	86	86
144.5	12	26	70	85	85
145.0	12	26	68	85	85
145.5	12	25	66	84	84
146.0	12	24	63	83	84
146.5	12	24	62	81	83
147.0	12	23	60	80	83
147.5	11	23	58	79	82
148.0	11	22	56	77	81
148.5	12	22	54	75	80
149.0	11	21	52	74	79
149.5	11	21	51	72	77
150.0	11	20	49	70	76
150.5	11	20	47	68	74
151.0	11	19	45	65	72
151.5	11	19	43	63	70
152.0	11	18	42	61	68
152.5	10	18	40	59	66
153.0	10	17	38	57	64
153.5	10	17	36	55	62
154.0	10	16	35	53	60
154.5	10	16	33	52	58
155.0	10	16	32	50	56
155.5	10	15	30	48	54
156.0	10	15	29	46	52
156.5	10	15	28	44	50
157.0	10	14	27	42	48
157.5	10	14	26	40	46
158.0	10	14	25	38	44
158.5	10	14	24	36	42
159.0	10	13	23	34	40
159.5	10	13	22	33	38
160.0	10	13	21	31	36
160.5	10	13	20	29	34
161.0	10	13	20	28	32
161.5	10	13	19	26	30
162.0	10	13	19	25	29
162.5	11	13	18	24	27
163.0	11	13	17	23	26
163.5	11	13	17	22	24
164.0	11	13	16	21	23
164.5	11	13	16	20	22
165.0	11	13	15	19	21
165.5	11	13	15	19	20
166.0	11	12	14	18	19
166.5	11	12	14	17	19

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	11	12	14	17	18
<b>167.5</b>	11	12	13	16	17
<b>168.0</b>	11	12	13	16	17
<b>168.5</b>	11	12	13	15	16
<b>169.0</b>	11	12	13	15	16
<b>169.5</b>	11	12	13	15	15
<b>170.0</b>	11	12	13	14	15
<b>170.5</b>	11	12	13	14	15
<b>171.0</b>	11	12	13	14	14
<b>171.5</b>	11	11	13	14	14
<b>172.0</b>	11	11	12	14	14
<b>172.5</b>	11	11	12	14	14
<b>173.0</b>	11	11	12	14	14
<b>173.5</b>	11	11	12	13	14
<b>174.0</b>	11	11	12	13	14
<b>174.5</b>	11	11	11	13	14
<b>175.0</b>	11	11	11	13	14
<b>175.5</b>	11	11	11	12	13
<b>176.0</b>	11	11	11	12	13
<b>176.5</b>	11	11	11	11	12
<b>177.0</b>	11	11	10	11	12
<b>177.5</b>	11	11	10	10	11
<b>178.0</b>	11	11	10	10	11
<b>178.5</b>	11	11	10	10	10
<b>179.0</b>	10	10	10	10	10
<b>179.5</b>	10	10	10	10	10
<b>180.0</b>	10	10	10	10	10



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1786.73	N.A.	14.70
0-30	3694.22	N.A.	30.50
0-40	5846.22	N.A.	48.20
0-60	9565.45	N.A.	78.90
0-80	11427.32	N.A.	94.30
0-90	11681.85	N.A.	96.40
10-90	11214.28	N.A.	92.60
20-40	4059.49	N.A.	33.50
20-50	6101.74	N.A.	50.40
40-70	4908.67	N.A.	40.50
60-80	1861.88	N.A.	15.40
70-80	672.44	N.A.	5.50
80-90	254.53	N.A.	2.10
90-110	157.11	N.A.	1.30
90-120	231.00	N.A.	1.90
90-130	316.21	N.A.	2.60
90-150	413.61	N.A.	3.40
90-180	435.13	N.A.	3.60
110-180	278.02	N.A.	2.30
0-180	12116.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	467.57
10-20	1319.16
20-30	1907.49
30-40	2152.00
40-50	2042.25
50-60	1676.97
60-70	1189.44
70-80	672.44
80-90	254.53
90-100	92.54
100-110	64.57
110-120	73.89
120-130	85.21
130-140	61.62
140-150	35.78
150-160	15.59
160-170	4.77
170-180	1.16

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

**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	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

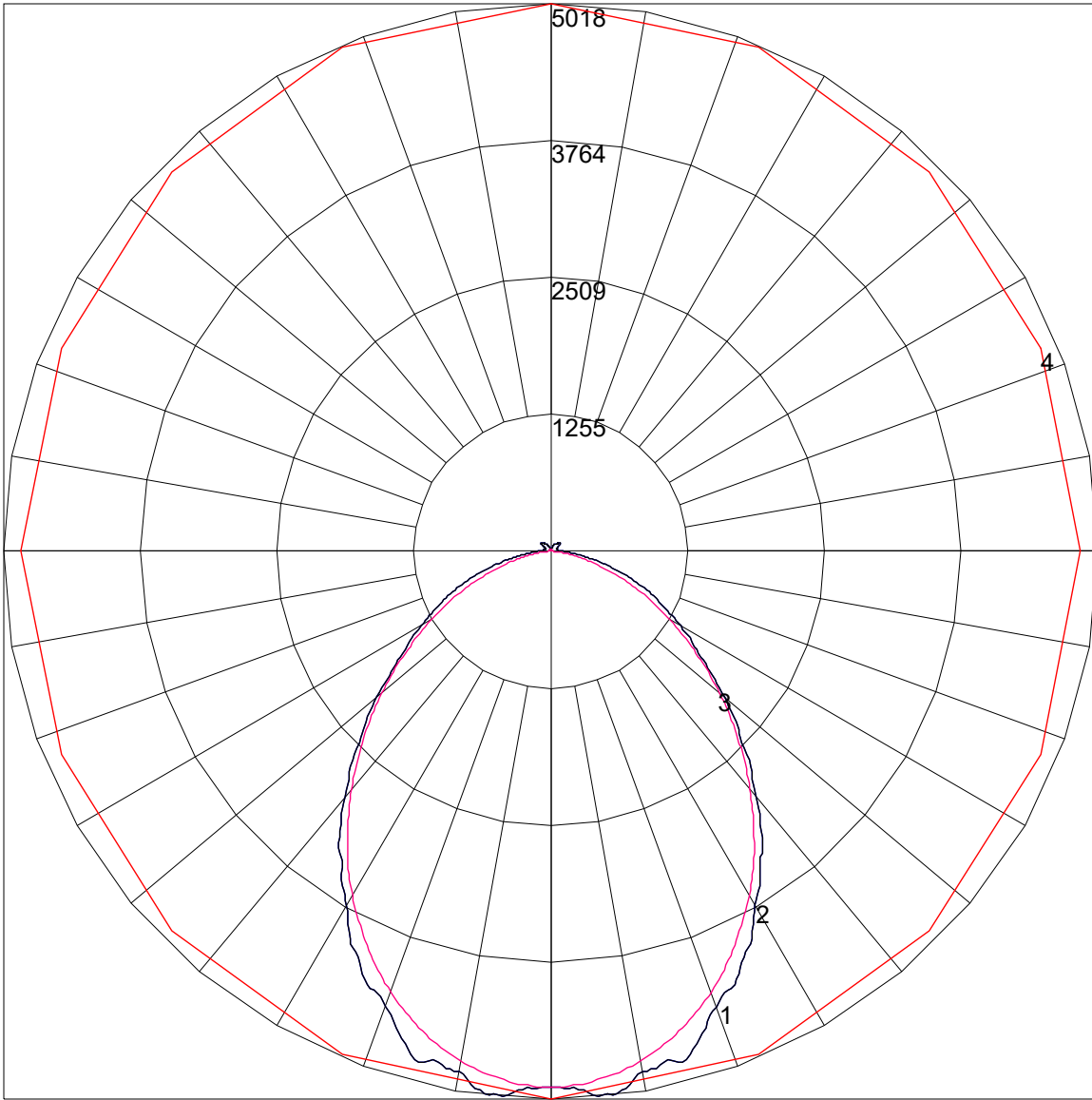
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BASE-4-835-U10-XX-N-CA.IES**

**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	24.1	25.6	26.0
	3H	24.1	25.5	24.6	25.9	26.3	25.4	26.7	25.8	27.1	27.6
	4H	24.4	25.7	24.9	26.1	26.6	26.0	27.2	26.5	27.7	28.1
	6H	24.5	25.7	25.0	26.1	26.6	26.5	27.6	26.9	28.1	28.6
	8H	24.5	25.6	25.0	26.1	26.6	26.6	27.7	27.1	28.2	28.7
	12H	24.5	25.6	25.0	26.0	26.5	26.8	27.8	27.3	28.3	28.8
4H	2H	24.0	25.2	24.4	25.6	26.1	24.4	25.7	24.9	26.1	26.6
	3H	25.2	26.3	25.7	26.8	27.3	26.3	27.3	26.7	27.8	28.3
	4H	25.6	26.6	26.1	27.1	27.6	27.0	27.9	27.5	28.4	29.0
	6H	25.8	26.6	26.3	27.1	27.7	27.6	28.4	28.1	28.9	29.5
	8H	25.8	26.6	26.3	27.1	27.7	27.8	28.6	28.3	29.1	29.6
	12H	25.8	26.5	26.4	27.1	27.6	28.0	28.7	28.5	29.2	29.8
8H	4H	26.0	26.8	26.6	27.3	27.9	27.2	28.0	27.8	28.5	29.1
	6H	26.4	27.0	26.9	27.6	28.1	28.0	28.6	28.5	29.2	29.7
	8H	26.4	27.0	27.0	27.6	28.2	28.3	28.8	28.8	29.4	30.0
	12H	26.4	27.0	27.0	27.5	28.2	28.5	29.0	29.1	29.6	30.3
12H	4H	26.1	26.8	26.6	27.3	27.9	27.2	27.9	27.8	28.5	29.0
	6H	26.5	27.0	27.1	27.6	28.2	28.0	28.6	28.6	29.1	29.7
	8H	26.6	27.1	27.1	27.7	28.3	28.3	28.9	28.9	29.4	30.1

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 5018 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.)