

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411906.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L032411906
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 3/27/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSS121-44-35-ND-R: 4425 luminaire lumens (~1200 lm/ft.)
 [LUMINAIRE] Asymmetric cove mount LED luminaire
 [BALLASTCAT] XI075C200V054BPT1
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	57.52
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	100	100	88
55	186	186	170
65	357	504	336
75	515	755	652
85	4381	3668	2343

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	7	7	7	7	7	7	7	7	7	7
2.5	7	7	7	7	7	7	7	7	7	7
5.0	7	8	8	8	7	8	8	7	7	7
7.5	7	7	7	7	7	7	7	8	7	8
10.0	7	7	7	7	7	7	7	7	7	7
12.5	7	7	7	7	7	7	7	7	7	7
15.0	6	6	6	6	6	6	7	7	7	7
17.5	6	6	6	6	6	6	6	6	6	6
20.0	6	6	6	6	6	6	6	6	6	6
22.5	6	6	6	6	6	6	6	6	6	6
25.0	6	6	6	6	6	6	6	6	6	6
27.5	6	6	6	6	6	6	6	6	6	6
30.0	6	6	6	6	6	6	6	6	6	6
32.5	6	6	6	6	6	7	6	6	6	6
35.0	6	6	7	7	7	7	7	7	7	7
37.5	7	7	7	7	7	7	7	7	7	7
40.0	7	7	7	7	7	7	7	7	7	7
42.5	7	8	8	8	8	8	8	8	8	8
45.0	8	8	8	8	8	8	8	8	8	8
47.5	9	9	9	9	9	9	9	9	9	9
50.0	10	10	10	10	11	10	10	10	10	10
52.5	11	11	11	11	12	12	12	12	11	10
55.0	12	12	12	13	12	13	14	14	14	12
57.5	13	13	13	14	15	15	15	15	15	15
60.0	15	14	14	15	16	17	18	17	17	18
62.5	15	16	15	16	16	18	21	21	20	21
65.0	17	17	17	17	18	18	19	21	25	24
67.5	19	19	19	19	21	20	19	19	23	27
70.0	21	20	21	21	22	22	22	21	20	23
72.5	21	21	21	23	24	24	23	22	22	22
75.0	15	15	18	22	26	28	25	25	23	22
77.5	11	11	14	17	21	28	25	29	32	33
80.0	15	15	15	19	23	24	21	27	26	29
82.5	26	26	26	29	30	29	28	29	25	25
85.0	43	43	44	45	48	48	46	44	39	36
87.5	85	85	85	86	87	86	86	83	78	72
90.0	153	155	160	161	166	171	186	210	257	328
92.5	1581	1574	1570	1543	1508	1450	1375	1268	1153	1026
95.0	1936	1935	1918	1880	1830	1763	1678	1559	1428	1286
97.5	2209	2218	2190	2138	2085	1995	1884	1763	1627	1465
100.0	2390	2407	2357	2322	2259	2155	2015	1835	1632	1456
102.5	2437	2454	2394	2358	2227	2122	1975	1801	1605	1463
105.0	2475	2491	2449	2379	2258	2123	1981	1834	1693	1543
107.5	2583	2553	2512	2436	2331	2212	2079	1928	1745	1547
110.0	2648	2622	2572	2502	2416	2305	2124	1929	1714	1523
112.5	2662	2641	2541	2496	2378	2246	2051	1854	1675	1480
115.0	2520	2501	2470	2371	2246	2099	1955	1783	1598	1422
117.5	2361	2355	2324	2237	2129	1983	1840	1690	1546	1376
120.0	2168	2189	2163	2094	1993	1861	1729	1594	1468	1337
122.5	2015	2030	2005	1949	1857	1760	1645	1522	1405	1293
125.0	1878	1889	1874	1818	1744	1667	1565	1454	1345	1242
127.5	1778	1777	1754	1707	1638	1574	1492	1391	1288	1196
130.0	1685	1680	1657	1604	1551	1485	1412	1327	1238	1140
132.5	1591	1588	1567	1514	1467	1401	1330	1264	1177	1097

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CANDELA TABULATION - (Cont.)

135.0	1508	1498	1477	1426	1389	1329	1270	1204	1129	1056
137.5	1433	1414	1395	1349	1314	1263	1211	1151	1087	1008
140.0	1351	1339	1325	1282	1244	1205	1156	1100	1041	973
142.5	1291	1275	1258	1227	1188	1152	1106	1057	1002	936
145.0	1221	1208	1197	1169	1136	1102	1059	1012	957	914
147.5	1157	1147	1133	1108	1081	1056	1022	969	924	891
150.0	1102	1090	1076	1055	1034	1010	981	936	896	865
152.5	1041	1031	1023	1008	990	966	937	903	872	845
155.0	990	981	975	964	945	925	897	869	841	786
157.5	943	935	928	916	897	877	846	813	769	732
160.0	885	874	867	859	853	840	804	761	718	671
162.5	821	819	819	813	802	766	717	674	644	621
165.0	778	774	770	760	732	684	646	621	611	616
167.5	737	733	726	701	650	618	588	592	602	612
170.0	687	684	670	610	573	558	571	580	584	577
172.5	625	611	540	501	494	516	534	535	530	520
175.0	463	411	380	379	410	425	420	407	393	379
177.5	171	164	180	199	220	226	227	232	236	239
180.0	254	254	254	254	254	254	254	254	254	254

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	7	7	7	7	7	7	7	7	7	7
2.5	7	7	7	7	7	7	7	7	7	7
5.0	7	7	7	7	7	7	7	7	7	7
7.5	8	7	7	7	7	7	7	7	7	7
10.0	7	7	7	7	7	7	7	7	7	7
12.5	7	7	7	7	7	7	7	7	7	7
15.0	7	7	7	7	7	7	6	7	6	7
17.5	6	6	6	6	6	6	6	6	6	6
20.0	6	6	6	6	6	6	6	6	6	6
22.5	6	6	6	6	6	6	6	6	6	6
25.0	6	6	6	6	6	6	5	5	5	5
27.5	6	6	6	6	5	5	6	5	5	5
30.0	6	6	6	6	6	5	5	5	5	5
32.5	6	6	6	6	6	5	5	5	5	5
35.0	6	6	6	6	6	6	5	5	5	5
37.5	7	6	6	6	6	6	5	5	5	6
40.0	7	7	7	7	6	6	6	6	6	6
42.5	8	7	7	7	7	6	6	6	6	6
45.0	8	8	8	7	7	7	7	7	7	7
47.5	9	8	8	8	8	8	7	7	7	8
50.0	10	9	9	9	9	9	9	9	9	9
52.5	10	10	11	11	11	11	10	10	10	10
55.0	12	12	12	12	12	12	12	11	11	11
57.5	13	13	14	15	14	14	13	13	13	13
60.0	18	15	15	15	15	15	14	14	14	14
62.5	22	22	18	16	16	15	15	15	15	15
65.0	25	26	24	19	18	17	16	16	16	16
67.5	30	32	31	25	19	19	18	17	17	17
70.0	32	35	35	33	24	20	19	18	18	18
72.5	25	35	39	39	35	23	21	19	19	18
75.0	22	25	35	45	41	32	22	21	19	19
77.5	30	24	25	33	45	41	29	23	21	20
80.0	30	34	37	25	30	42	38	25	22	20

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CANDELA TABULATION - (Cont.)

82.5	25	26	28	27	25	27	37	29	23	21
85.0	34	30	27	26	27	25	27	29	23	21
87.5	65	56	51	44	38	35	35	45	25	24
90.0	379	382	332	285	236	174	111	58	35	32
92.5	904	775	650	520	388	259	146	76	50	46
95.0	1131	979	796	575	416	281	155	89	64	57
97.5	1255	1036	811	633	465	294	167	101	78	70
100.0	1266	1100	927	699	500	329	211	139	102	95
102.5	1338	1181	966	731	520	372	258	180	135	130
105.0	1357	1150	939	737	633	439	322	245	182	177
107.5	1354	1158	966	804	698	515	409	324	254	248
110.0	1333	1150	995	843	736	572	483	399	329	324
112.5	1301	1138	991	872	778	640	546	457	379	369
115.0	1273	1127	981	855	785	649	567	471	394	388
117.5	1229	1096	972	866	756	664	580	483	405	397
120.0	1204	1082	975	860	763	679	591	498	415	409
122.5	1173	1055	960	864	769	673	599	496	408	403
125.0	1133	1031	943	860	773	682	616	511	418	409
127.5	1100	1015	933	843	763	674	597	505	400	386
130.0	1050	973	900	821	753	662	574	482	376	367
132.5	1006	935	877	805	731	649	570	475	360	348
135.0	978	906	854	776	708	591	504	410	305	299
137.5	947	882	805	734	663	583	510	419	314	303
140.0	920	867	803	726	654	586	516	425	316	298
142.5	895	838	790	721	650	586	515	409	307	288
145.0	869	833	773	713	639	585	518	416	306	287
147.5	854	803	753	701	630	574	511	412	295	281
150.0	833	793	732	667	613	556	499	408	284	281
152.5	796	750	687	636	593	545	481	389	268	268
155.0	743	700	648	608	571	519	460	349	248	254
157.5	692	657	615	581	559	524	464	343	236	246
160.0	642	614	600	590	570	514	458	331	228	240
162.5	623	619	604	585	548	506	438	315	223	231
165.0	617	608	595	577	543	500	405	278	222	223
167.5	611	594	571	545	514	452	354	256	222	225
170.0	562	545	527	500	447	379	305	242	217	216
172.5	505	479	446	408	364	318	272	236	220	218
175.0	361	341	320	300	278	261	248	237	227	223
177.5	240	241	243	242	242	242	244	241	238	237
180.0	254	254	254	254	254	254	254	254	254	254

Vert. Angles

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	7	7	7	7	7	7	7	7	7	7
2.5	7	7	7	7	7	7	7	7	7	7
5.0	7	7	7	7	7	7	7	7	7	7
7.5	7	7	7	7	7	7	8	7	8	8
10.0	7	7	7	7	7	7	7	7	7	7
12.5	7	7	7	7	7	7	7	7	7	7
15.0	6	7	7	7	7	7	7	7	7	6
17.5	6	6	6	6	6	6	6	6	6	6
20.0	6	6	6	6	6	6	6	6	6	6
22.5	6	6	6	6	6	6	6	6	6	6
25.0	5	6	6	6	6	5	6	6	6	6
27.5	5	5	5	5	6	6	6	6	6	6

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CANDELA TABULATION - (Cont.)

30.0	5	5	5	6	6	6	6	6	6	6
32.5	5	5	6	6	6	6	6	6	7	7
35.0	5	6	6	6	7	7	7	7	7	7
37.5	6	6	7	7	7	8	8	8	8	9
40.0	6	7	7	7	8	8	9	9	9	9
42.5	7	7	8	8	8	9	9	10	10	10
45.0	7	8	8	9	9	9	10	10	10	11
47.5	8	8	9	9	10	10	10	11	11	11
50.0	9	9	9	10	10	11	11	11	12	12
52.5	11	11	10	11	11	11	12	12	12	13
55.0	12	12	12	11	12	12	12	13	13	13
57.5	13	14	14	14	13	13	13	13	13	14
60.0	15	15	15	15	14	13	13	14	14	14
62.5	15	16	16	16	15	15	15	15	15	15
65.0	16	17	17	17	17	15	15	15	15	15
67.5	18	18	19	18	18	16	15	15	16	16
70.0	18	19	19	19	18	16	15	15	16	16
72.5	19	19	19	19	16	15	15	15	16	16
75.0	19	19	19	19	15	15	15	16	16	16
77.5	19	19	19	18	15	15	16	16	16	16
80.0	20	20	19	17	15	15	15	16	16	16
82.5	22	21	19	17	16	16	16	16	16	17
85.0	24	24	20	16	16	16	16	17	18	18
87.5	25	27	21	18	19	20	20	21	22	23
90.0	35	35	23	18	18	19	20	21	22	23
92.5	46	51	34	25	21	18	18	18	18	19
95.0	55	59	51	40	36	33	28	24	20	19
97.5	67	66	70	46	43	44	45	44	41	37
100.0	88	81	82	69	52	52	52	52	53	53
102.5	120	108	103	101	62	60	60	59	59	60
105.0	164	152	139	126	91	75	70	70	70	70
107.5	233	213	194	174	137	96	85	84	83	83
110.0	312	280	248	227	189	154	106	101	99	98
112.5	355	319	280	254	208	172	127	121	118	117
115.0	380	347	302	273	224	183	149	144	140	137
117.5	399	374	333	301	248	204	172	167	163	160
120.0	409	379	345	306	253	211	197	191	187	184
122.5	408	392	355	314	262	231	223	217	211	208
125.0	418	408	369	328	269	257	248	242	237	232
127.5	397	387	350	312	296	284	275	267	261	257
130.0	385	372	345	332	320	309	300	292	286	281
132.5	360	360	367	357	346	335	325	317	309	305
135.0	344	372	385	380	370	359	349	340	333	328
137.5	349	381	399	400	392	381	372	363	356	350
140.0	352	389	409	419	414	405	394	386	378	372
142.5	349	392	419	431	433	426	417	408	399	394
145.0	350	394	427	439	449	445	438	429	421	416
147.5	349	387	427	445	459	463	457	450	442	436
150.0	343	392	419	444	460	473	475	469	462	457
152.5	323	381	412	437	455	469	480	485	481	477
155.0	306	374	398	427	448	462	472	485	492	494
157.5	296	362	394	414	436	453	464	473	483	498
160.0	267	334	394	415	432	445	450	461	473	480
162.5	246	298	361	409	426	440	446	447	451	464
165.0	237	262	317	375	412	423	433	439	441	442
167.5	237	245	268	312	360	399	414	420	424	425

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CANDELA TABULATION - (Cont.)

170.0	223	233	240	257	289	324	356	383	403	406
172.5	221	227	236	240	243	253	271	288	304	321
175.0	222	223	222	222	222	224	227	229	232	234
177.5	235	233	231	229	228	227	227	225	222	219
180.0	254	254	254	254	254	254	254	254	254	254

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	7	7	7	7	7	7	7
2.5	7	7	7	7	7	7	7
5.0	7	7	7	7	7	7	7
7.5	8	8	7	7	7	7	7
10.0	7	7	7	7	7	7	7
12.5	7	7	7	7	7	6	6
15.0	6	6	6	6	6	6	6
17.5	6	6	6	6	6	6	6
20.0	6	6	6	6	6	6	6
22.5	6	6	6	6	6	6	6
25.0	6	6	6	6	5	5	6
27.5	6	6	6	6	6	6	6
30.0	6	6	6	6	6	6	6
32.5	7	7	7	7	7	7	7
35.0	8	7	8	8	8	8	8
37.5	9	9	9	9	9	9	9
40.0	10	10	10	10	10	10	10
42.5	10	10	10	10	11	11	11
45.0	11	11	11	11	11	11	11
47.5	12	12	12	12	12	12	12
50.0	12	12	13	12	13	13	13
52.5	13	13	13	13	13	13	13
55.0	14	14	14	14	14	14	14
57.5	14	14	14	14	14	14	15
60.0	15	15	15	15	15	15	15
62.5	15	15	15	16	15	15	16
65.0	16	16	16	16	16	16	16
67.5	16	17	17	17	17	17	17
70.0	16	17	17	17	17	17	17
72.5	17	17	17	17	18	18	18
75.0	17	17	17	18	18	18	18
77.5	17	17	18	18	18	18	18
80.0	17	18	18	18	18	19	19
82.5	18	18	18	19	19	19	19
85.0	19	20	20	21	21	21	21
87.5	24	25	25	25	26	26	27
90.0	24	25	25	26	26	27	27
92.5	20	21	21	22	22	22	22
95.0	19	19	19	19	19	19	19
97.5	32	27	25	22	20	19	19
100.0	53	52	51	50	49	48	48
102.5	61	62	63	63	63	65	67
105.0	71	71	72	73	75	77	81
107.5	84	84	85	86	87	90	94
110.0	98	99	100	101	104	106	108
112.5	116	116	117	119	121	123	125
115.0	136	136	136	137	139	141	143

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CANDELA TABULATION - (Cont.)

117.5	158	157	157	158	159	161	161
120.0	181	179	179	180	181	182	182
122.5	206	203	202	202	203	204	204
125.0	229	227	226	225	226	227	227
127.5	253	250	248	248	248	248	249
130.0	277	274	271	271	271	271	272
132.5	299	297	294	294	294	293	295
135.0	323	319	317	316	316	315	317
137.5	345	341	338	338	337	337	338
140.0	368	363	360	359	358	358	359
142.5	389	384	381	379	379	379	379
145.0	409	405	402	400	399	399	400
147.5	430	426	423	420	419	419	419
150.0	450	446	443	441	439	439	439
152.5	471	467	463	461	460	460	460
155.0	490	486	483	481	480	479	480
157.5	504	503	500	500	499	498	500
160.0	497	508	510	510	511	510	511
162.5	476	493	509	510	511	512	512
165.0	454	465	485	503	507	508	509
167.5	424	429	444	470	493	496	497
170.0	404	393	393	408	436	463	468
172.5	332	338	333	335	349	379	390
175.0	235	237	232	221	215	207	220
177.5	217	211	208	203	184	155	138
180.0	254	254	254	254	254	254	254

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2.50	N.A.	0.10
0-30	5.21	N.A.	0.10
0-40	9.39	N.A.	0.20
0-60	27.60	N.A.	0.60
0-80	68.13	N.A.	1.50
0-90	113.37	N.A.	2.60
10-90	112.69	N.A.	2.50
20-40	6.89	N.A.	0.20
20-50	13.74	N.A.	0.30
40-70	35.96	N.A.	0.80
60-80	40.53	N.A.	0.90
70-80	22.77	N.A.	0.50
80-90	45.24	N.A.	1.00
90-110	1411.57	N.A.	31.90
90-120	2244.56	N.A.	50.70
90-130	2926.8	N.A.	66.20
90-150	3860.96	N.A.	87.30
90-180	4311.05	N.A.	97.40
110-180	2899.49	N.A.	65.50
0-180	4424.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.68
10-20	1.82
20-30	2.71
30-40	4.18
40-50	6.85
50-60	11.36
60-70	17.75
70-80	22.77
80-90	45.24
90-100	589.77
100-110	821.79
110-120	832.99
120-130	682.24
130-140	530.74
140-150	403.42
150-160	274.19
160-170	143.30
170-180	32.60

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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	96	96	96	96	82	82	82	82	57	57	57	34	34	34	13	13	13	3
1	87	83	79	75	74	71	68	65	49	47	45	29	28	27	10	10	10	1
2	79	72	66	61	67	62	57	53	43	40	37	25	24	22	9	8	8	1
3	72	63	56	51	61	54	48	44	37	34	31	22	20	19	8	7	6	1
4	65	55	48	42	56	48	42	37	33	29	26	19	17	16	7	6	5	0
5	60	49	41	36	51	42	36	31	29	25	22	17	15	13	6	5	5	0
6	55	44	36	31	47	38	31	27	26	22	19	15	13	11	5	5	4	0
7	50	39	32	26	43	34	27	23	23	19	16	14	12	10	5	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	13	10	9	4	4	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	4	3	2	0

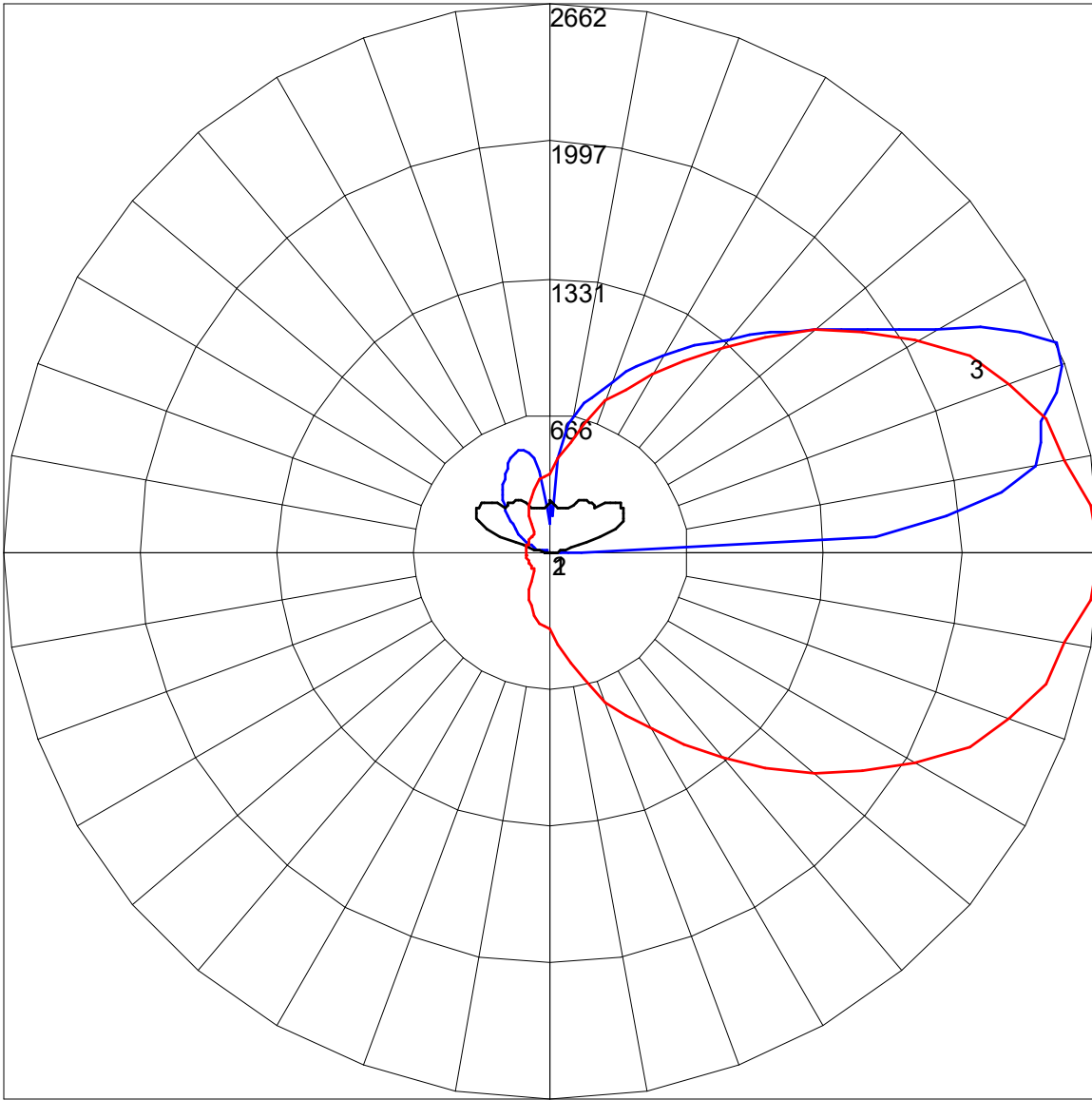
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411906.IES

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	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	3H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	4H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	6H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	8H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.2
	12H	5.3	5.7	6.6	6.9	8.8	5.1	5.1	5.5	5.9	7.7
4H	2H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	3H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	4H	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	6H	5.1	5.1	5.1	5.1	5.6	5.1	5.1	5.5	5.8	7.7
	8H	5.1	5.1	5.3	5.6	7.4	5.5	5.8	6.8	7.1	9.0
	12H	7.5	7.8	8.8	9.0	10.9	6.9	7.2	8.2	8.5	10.3
8H	4H	5.1	5.1	5.1	5.1	5.5	5.1	5.1	5.1	5.1	5.5
	6H	5.1	5.1	5.4	5.7	7.5	5.1	5.3	6.4	6.6	8.5
	8H	6.1	6.4	7.4	7.6	9.5	6.5	6.7	7.8	8.0	9.9
	12H	9.7	9.9	11.0	11.2	13.1	8.2	8.4	9.5	9.6	11.5
12H	4H	5.1	5.1	5.1	5.1	6.0	5.1	5.1	5.1	5.1	5.6
	6H	5.1	5.1	6.0	6.2	8.1	5.3	5.5	6.6	6.8	8.7
	8H	6.9	7.1	8.2	8.4	10.3	6.9	7.1	8.2	8.3	10.2

Maximum UGR = 13.1

POLAR GRAPH



Maximum Candela = 2662 Located At Horizontal Angle = 0, Vertical Angle = 112.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (112.5) (Through Max. Cd.)