

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411902.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L032411902
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 3/27/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSS111-45-35-ND-R-A: 4550 luminaire lumens (~1202 lm/ft.)
 [LUMINAIRE] Adjustable cove mount LED luminaire w/asymmetric lens optic
 [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	4550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	39.37
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2077	1606	384
55	4156	2450	431
65	7687	4916	905
75	7495	7654	2666
85	9789	13296	9106

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	17	17	17	17	17	17	17	16	16	16
7.5	21	21	21	21	21	20	20	20	20	19
10.0	23	23	23	23	23	23	23	23	23	23
12.5	26	26	26	26	26	26	26	25	25	25
15.0	34	34	34	33	33	32	32	32	31	30
17.5	40	40	40	40	40	39	39	38	38	37
20.0	46	46	46	46	45	45	45	44	43	43
22.5	51	51	51	51	51	51	50	49	49	48
25.0	58	58	58	58	58	57	56	55	54	53
27.5	64	64	64	64	64	64	63	62	61	60
30.0	72	72	72	72	71	71	69	69	67	66
32.5	80	80	80	80	79	78	77	77	75	74
35.0	92	93	92	91	90	89	87	86	84	82
37.5	106	106	106	105	104	102	100	99	97	95
40.0	117	117	117	116	115	113	113	112	110	107
42.5	126	126	126	126	124	124	123	122	121	118
45.0	136	137	136	136	134	134	133	132	130	128
47.5	150	151	150	149	148	148	146	143	141	140
50.0	176	177	176	174	172	171	167	163	161	156
52.5	217	218	216	211	211	208	202	198	193	185
55.0	268	272	268	264	262	256	248	245	236	225
57.5	331	334	329	325	323	316	309	302	292	278
60.0	396	399	393	390	386	380	373	364	353	338
62.5	449	448	443	440	438	435	426	419	407	396
65.0	473	471	468	466	466	462	456	451	441	434
67.5	474	473	472	471	469	467	464	458	454	446
70.0	460	460	461	462	460	458	457	454	450	445
72.5	441	441	442	444	442	442	441	440	437	435
75.0	425	427	429	429	429	428	429	427	425	425
77.5	421	424	425	425	425	426	426	427	424	420
80.0	425	429	432	431	437	439	437	440	439	440
82.5	445	453	458	462	464	467	472	477	473	477
85.0	491	506	519	528	537	541	548	565	571	570
87.5	584	634	662	679	696	701	703	701	697	687
90.0	869	884	882	877	873	869	858	844	835	823
92.5	981	978	957	945	941	934	923	918	911	904
95.0	1078	1077	1058	1043	1030	1022	1016	1026	1030	1033
97.5	1251	1261	1245	1228	1209	1205	1213	1224	1223	1234
100.0	1587	1590	1591	1549	1559	1557	1557	1534	1616	1611
102.5	2143	2148	2167	2149	2134	2139	2034	2147	2166	2090
105.0	2925	2911	2904	2892	2884	2903	2848	2895	2892	2788
107.5	3592	3555	3519	3510	3541	3450	3490	3367	3288	3257
110.0	3795	3771	3717	3681	3657	3558	3471	3353	3161	2986
112.5	3428	3426	3378	3317	3233	3139	2984	2853	2642	2473
115.0	2791	2799	2764	2731	2635	2546	2429	2300	2174	1996
117.5	2280	2287	2265	2241	2178	2095	2027	1905	1827	1697
120.0	1953	1963	1942	1921	1881	1818	1763	1685	1598	1526
122.5	1756	1759	1743	1723	1693	1647	1596	1540	1472	1408
125.0	1625	1624	1610	1593	1566	1530	1487	1442	1387	1333
127.5	1522	1520	1509	1496	1472	1443	1408	1370	1326	1279
130.0	1442	1439	1430	1419	1400	1374	1345	1315	1279	1238
132.5	1374	1371	1363	1354	1340	1318	1293	1268	1242	1210

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CANDELA TABULATION - (Cont.)

135.0	1313	1311	1306	1299	1291	1274	1254	1234	1216	1194
137.5	1271	1269	1266	1262	1258	1247	1232	1217	1204	1192
140.0	1256	1254	1250	1247	1243	1238	1227	1216	1205	1194
142.5	1248	1245	1244	1241	1238	1235	1227	1217	1206	1192
145.0	1248	1245	1242	1237	1233	1228	1222	1210	1198	1182
147.5	1227	1225	1221	1218	1212	1207	1199	1188	1173	1157
150.0	1196	1194	1190	1185	1181	1175	1168	1161	1147	1133
152.5	1161	1159	1155	1150	1145	1138	1131	1124	1114	1101
155.0	1110	1109	1106	1102	1096	1090	1082	1073	1062	1050
157.5	1054	1052	1050	1044	1039	1033	1027	1019	1011	1001
160.0	1002	1000	998	993	987	981	974	967	958	949
162.5	936	935	934	928	924	919	913	906	898	889
165.0	866	866	864	862	860	856	854	850	846	842
167.5	830	829	829	827	826	825	824	823	821	820
170.0	825	825	823	823	822	821	821	821	820	819
172.5	834	833	832	831	831	830	829	829	827	827
175.0	832	832	831	831	831	829	828	827	826	825
177.5	812	812	811	811	811	810	810	805	803	802
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	16	16	16	16	16	16	16	16	16	15
7.5	19	19	19	19	18	18	18	18	17	17
10.0	22	22	22	21	21	21	21	20	19	19
12.5	25	25	24	24	23	23	23	22	22	21
15.0	29	29	28	27	26	26	25	25	24	23
17.5	36	35	34	33	32	30	29	28	27	26
20.0	41	41	40	38	37	36	34	33	31	29
22.5	47	47	45	44	43	41	40	38	36	34
25.0	53	51	51	49	48	47	45	43	41	39
27.5	59	58	56	54	53	51	49	48	45	43
30.0	65	64	62	61	59	57	54	53	51	48
32.5	73	71	69	67	65	63	60	58	55	53
35.0	81	78	76	74	71	69	67	64	61	58
37.5	91	88	86	83	80	77	73	70	67	63
40.0	104	102	98	94	90	86	81	77	73	69
42.5	116	113	110	107	102	98	91	86	81	77
45.0	126	124	121	117	113	109	103	97	91	85
47.5	137	134	130	127	123	119	113	108	102	95
50.0	153	147	143	139	134	129	123	117	112	105
52.5	177	169	164	156	148	141	134	128	121	115
55.0	215	207	195	183	168	159	151	141	133	124
57.5	267	255	239	220	206	192	176	161	147	135
60.0	325	310	292	274	253	233	212	187	169	157
62.5	381	362	344	326	305	280	255	230	207	187
65.0	421	402	387	373	351	324	298	274	247	221
67.5	436	428	417	397	378	359	336	316	289	258
70.0	440	432	421	409	394	382	365	341	314	285
72.5	431	425	419	410	400	387	372	353	332	307
75.0	420	414	418	416	399	388	375	359	342	325
77.5	421	423	427	424	402	386	384	379	368	353
80.0	436	434	441	448	439	429	421	411	399	381

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CANDELA TABULATION - (Cont.)

82.5	486	492	498	498	485	475	461	443	432	407
85.0	572	564	559	560	546	545	531	511	502	477
87.5	689	679	670	668	649	644	622	594	581	547
90.0	815	800	780	772	751	741	710	676	656	617
92.5	908	905	903	904	893	899	879	858	826	789
95.0	1039	1034	1031	1039	1040	1056	1048	1037	993	960
97.5	1271	1312	1352	1361	1341	1312	1275	1231	1163	1125
100.0	1644	1674	1705	1734	1700	1638	1564	1457	1332	1224
102.5	2206	2294	2237	2128	2005	1955	1832	1656	1475	1295
105.0	2763	2851	2691	2423	2135	1937	1797	1656	1517	1331
107.5	3008	2825	2687	2494	2125	1817	1609	1451	1323	1160
110.0	2790	2518	2300	2092	1842	1602	1389	1237	1120	1011
112.5	2298	2078	1855	1697	1536	1370	1213	1073	959	888
115.0	1859	1734	1574	1406	1293	1197	1096	997	915	849
117.5	1585	1486	1382	1282	1177	1076	1007	947	891	841
120.0	1439	1343	1265	1190	1111	1043	978	919	875	842
122.5	1339	1271	1199	1131	1077	1022	970	925	886	853
125.0	1276	1220	1161	1110	1059	1015	974	937	906	877
127.5	1234	1186	1143	1098	1056	1019	985	957	928	901
130.0	1203	1168	1133	1093	1061	1029	1004	977	949	921
132.5	1181	1153	1124	1099	1072	1049	1023	994	966	939
135.0	1170	1149	1128	1109	1092	1065	1036	1008	982	948
137.5	1176	1157	1139	1121	1097	1073	1047	1020	986	954
140.0	1182	1165	1145	1124	1099	1074	1048	1018	987	958
142.5	1179	1167	1144	1118	1095	1067	1039	1013	987	959
145.0	1164	1146	1127	1105	1081	1057	1033	1009	978	950
147.5	1141	1124	1106	1089	1072	1049	1019	989	958	920
150.0	1116	1100	1084	1069	1043	1016	988	958	926	893
152.5	1085	1065	1044	1022	1000	976	952	929	902	875
155.0	1033	1017	999	981	961	940	919	897	876	853
157.5	991	976	959	941	923	904	885	864	844	823
160.0	939	928	914	897	880	863	845	831	818	805
162.5	879	869	858	849	842	832	821	810	803	798
165.0	836	831	826	820	816	814	812	808	804	800
167.5	819	817	815	814	812	810	810	810	810	810
170.0	819	819	819	819	818	818	818	818	817	816
172.5	826	825	824	823	823	822	821	821	820	819
175.0	823	822	821	819	818	817	816	814	812	811
177.5	799	797	795	792	790	787	784	781	777	774
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	15	15	15	14	14	14	14	14	14	14
7.5	16	16	16	16	16	15	15	14	14	14
10.0	19	18	18	17	16	16	16	16	15	15
12.5	21	20	19	19	18	18	17	16	16	15
15.0	23	22	21	21	20	19	18	18	16	16
17.5	25	24	23	22	21	21	20	19	18	16
20.0	27	26	25	24	23	22	21	20	19	18
22.5	32	30	28	26	25	23	22	21	20	19
25.0	37	35	32	29	27	25	23	22	21	19
27.5	41	39	36	34	30	27	25	23	21	20

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CANDELA TABULATION - (Cont.)

30.0	45	43	40	38	34	30	27	25	22	21
32.5	50	47	44	41	38	34	30	27	23	21
35.0	54	51	48	45	41	38	34	29	26	22
37.5	60	56	52	48	45	41	37	32	28	23
40.0	65	61	56	52	48	43	40	35	30	25
42.5	71	66	61	56	51	47	42	38	32	28
45.0	78	72	66	60	55	50	45	40	35	30
47.5	87	80	73	66	60	54	48	42	37	32
50.0	97	89	81	73	65	58	51	45	39	34
52.5	106	98	89	80	71	62	54	48	42	36
55.0	115	107	98	89	81	74	66	57	48	40
57.5	125	117	110	103	95	89	80	67	54	43
60.0	145	131	120	116	108	103	95	80	62	49
62.5	169	148	133	126	121	115	111	95	74	58
65.0	197	170	150	143	140	132	129	111	89	71
67.5	230	206	186	173	164	152	145	127	106	84
70.0	260	240	223	207	190	174	161	143	121	98
72.5	287	270	257	242	219	198	183	164	139	114
75.0	312	300	290	276	253	230	212	191	161	131
77.5	341	331	321	307	285	260	242	218	183	148
80.0	369	361	351	339	317	290	273	246	205	166
82.5	399	396	389	379	355	326	305	274	230	187
85.0	469	459	445	430	398	366	338	304	258	210
87.5	541	522	501	483	442	405	371	331	283	230
90.0	613	583	557	534	484	444	403	357	307	250
92.5	772	734	682	638	569	505	449	394	336	276
95.0	928	879	803	737	649	563	492	430	364	301
97.5	1081	1019	920	832	725	619	534	462	388	324
100.0	1118	1022	923	837	738	638	556	484	408	346
102.5	1124	985	877	786	700	617	548	484	417	359
105.0	1103	939	823	736	661	596	540	485	425	373
107.5	1002	877	773	692	626	577	534	486	434	386
110.0	905	818	742	683	630	585	544	496	447	401
112.5	830	774	723	678	636	597	560	513	465	418
115.0	795	748	711	678	646	611	577	529	482	434
117.5	799	762	726	694	661	626	591	545	497	449
120.0	810	779	746	716	683	650	609	561	512	464
122.5	825	797	768	738	706	671	625	575	525	477
125.0	849	819	788	758	725	689	639	587	536	491
127.5	871	840	809	778	744	700	649	596	546	504
130.0	891	859	828	795	760	708	654	602	555	519
132.5	907	875	844	810	766	715	657	609	568	536
135.0	917	887	856	821	766	711	656	616	582	555
137.5	925	894	863	813	760	706	661	624	598	577
140.0	929	899	854	800	752	705	670	639	613	600
142.5	931	888	835	790	747	712	680	652	631	621
145.0	909	861	820	783	749	718	690	664	653	644
147.5	879	844	810	779	750	724	699	682	674	668
150.0	862	832	803	775	749	725	707	700	694	690
152.5	847	820	794	770	748	729	722	716	713	710
155.0	830	808	786	767	751	744	738	735	733	731
157.5	808	793	777	769	764	759	757	757	756	748
160.0	792	784	780	775	772	772	772	773	767	761
162.5	794	789	785	784	784	784	784	779	775	770
165.0	799	798	797	797	797	794	791	788	785	779
167.5	810	810	809	807	805	803	801	797	793	788

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CANDELA TABULATION - (Cont.)

170.0	815	814	813	812	812	808	805	801	798	795
172.5	817	815	812	810	807	805	802	799	797	786
175.0	809	807	806	804	803	794	786	778	770	760
177.5	770	767	763	759	755	751	747	743	738	734
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	14	14	14	14	14	14	14	14	14	14
7.5	14	14	14	14	14	14	14	14	14	14
10.0	14	14	14	14	14	14	14	14	14	14
12.5	15	14	14	14	14	14	14	14	14	14
15.0	15	15	14	14	14	14	14	14	14	14
17.5	16	15	14	14	14	14	14	14	14	14
20.0	16	16	14	14	14	14	14	14	14	14
22.5	17	16	15	14	14	14	14	14	14	14
25.0	18	16	15	14	14	14	14	14	14	14
27.5	19	17	16	14	13	14	14	14	14	14
30.0	19	18	16	14	13	14	14	14	14	14
32.5	20	18	16	14	13	13	14	14	14	14
35.0	20	19	17	15	14	13	14	14	14	14
37.5	21	19	17	15	14	13	13	13	13	13
40.0	21	19	18	16	14	13	13	13	13	13
42.5	23	20	18	16	14	13	13	13	13	13
45.0	25	21	18	16	14	13	13	13	13	13
47.5	26	21	18	16	14	12	12	12	12	12
50.0	28	22	18	16	14	12	12	12	12	12
52.5	30	23	19	16	14	12	12	12	12	12
55.0	32	25	19	16	14	12	12	12	12	12
57.5	34	27	20	16	14	12	12	12	12	12
60.0	37	29	21	16	14	12	12	12	12	12
62.5	45	35	27	21	18	15	15	16	16	16
65.0	56	43	33	26	21	18	19	19	20	21
67.5	66	52	40	30	25	21	22	23	25	27
70.0	77	60	47	36	29	25	25	27	29	32
72.5	89	70	54	41	34	30	30	32	34	38
75.0	102	80	62	48	40	34	36	36	38	42
77.5	114	91	70	54	45	40	40	41	43	47
80.0	127	101	78	60	51	45	45	46	48	53
82.5	145	116	89	69	56	48	48	49	51	54
85.0	165	132	100	77	61	51	51	51	54	57
87.5	183	147	112	86	67	54	53	54	56	60
90.0	202	161	123	95	72	57	56	56	60	62
92.5	225	183	143	113	89	71	68	67	69	71
95.0	248	205	163	132	107	86	80	78	78	80
97.5	269	224	183	150	124	99	92	89	86	88
100.0	289	244	202	168	141	113	104	100	96	97
102.5	307	263	222	188	162	136	124	119	112	111
105.0	324	281	241	208	183	158	144	137	128	124
107.5	340	300	261	228	204	179	164	156	145	138
110.0	357	318	280	248	225	201	184	174	161	152
112.5	374	336	301	271	248	225	208	194	181	170
115.0	391	353	321	294	272	250	231	215	200	187

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CANDELA TABULATION - (Cont.)

117.5	407	371	342	317	295	274	255	236	220	205
120.0	423	388	363	340	318	298	279	257	241	223
122.5	438	407	384	364	344	324	303	278	259	240
125.0	454	425	407	388	369	349	327	300	278	257
127.5	471	445	429	412	394	375	351	321	298	275
130.0	489	467	453	437	420	401	375	344	318	294
132.5	513	495	482	467	451	430	403	370	341	316
135.0	537	523	510	497	481	460	430	395	366	338
137.5	563	550	538	527	512	488	456	422	390	362
140.0	588	577	567	557	542	517	484	449	416	384
142.5	611	602	593	582	568	541	506	471	437	407
145.0	636	628	619	607	594	564	528	493	459	429
147.5	661	654	645	633	620	587	550	515	481	453
150.0	686	678	670	657	645	609	573	538	504	476
152.5	704	696	687	676	661	626	591	557	523	495
155.0	722	714	705	696	677	643	610	576	543	515
157.5	740	732	724	715	692	660	628	596	563	536
160.0	755	748	741	734	706	676	647	616	585	557
162.5	764	759	752	739	712	685	658	630	602	575
165.0	774	768	763	741	717	693	669	644	620	596
167.5	783	779	764	743	722	701	680	659	639	618
170.0	792	777	760	743	725	709	691	674	657	640
172.5	773	760	748	735	722	708	695	682	670	657
175.0	752	743	735	725	716	708	699	690	682	674
177.5	730	725	721	716	712	707	703	699	694	690
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Horizontal Angles
Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	14	14	14	14	14	14	14	14	14	14
7.5	14	14	14	14	14	14	14	14	14	14
10.0	14	14	14	14	14	14	14	14	14	14
12.5	14	14	14	14	14	14	14	14	14	14
15.0	14	14	14	14	14	14	14	14	14	14
17.5	14	14	14	14	14	14	14	14	14	14
20.0	14	14	14	14	14	14	14	14	14	14
22.5	14	14	14	14	14	14	14	14	14	14
25.0	14	14	14	14	14	14	14	14	14	14
27.5	14	14	14	14	14	14	14	14	13	13
30.0	14	14	14	14	14	14	13	13	13	13
32.5	14	14	14	14	14	13	13	13	13	12
35.0	14	14	14	14	13	13	13	13	12	12
37.5	13	13	13	13	13	13	13	12	12	12
40.0	13	13	13	13	13	12	12	12	12	11
42.5	13	13	13	13	13	12	12	12	11	11
45.0	13	13	13	12	12	12	12	12	11	10
47.5	12	12	12	12	12	12	12	14	12	10
50.0	12	12	12	12	12	11	14	14	12	10
52.5	12	13	13	13	13	12	16	14	12	10
55.0	12	14	16	17	18	20	24	19	14	10
57.5	12	15	18	21	24	29	30	25	21	18
60.0	13	16	21	25	31	38	37	32	27	23
62.5	18	22	27	32	39	47	44	38	34	29

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CANDELA TABULATION - (Cont.)

65.0	25	29	34	40	47	53	50	43	40	32
67.5	31	36	41	47	54	59	55	49	45	36
70.0	38	43	48	54	62	64	60	54	50	41
72.5	43	48	54	60	67	69	65	60	54	47
75.0	48	53	58	65	73	74	69	64	58	51
77.5	53	58	63	70	78	78	73	69	62	54
80.0	57	63	67	75	84	82	78	73	66	58
82.5	60	65	71	78	87	86	81	77	70	62
85.0	62	68	73	81	90	89	84	80	73	65
87.5	65	70	76	84	93	91	86	82	75	68
90.0	67	73	78	86	95	95	89	86	78	71
92.5	75	80	86	93	102	102	97	93	86	79
95.0	82	87	93	100	110	110	105	100	94	88
97.5	89	94	100	107	116	118	113	108	102	96
100.0	97	102	108	114	123	125	121	117	111	104
102.5	108	112	117	121	129	132	129	124	119	113
105.0	120	121	125	129	135	139	137	133	128	123
107.5	132	131	134	137	141	145	145	141	137	132
110.0	144	141	143	145	147	151	151	147	142	137
112.5	159	153	152	152	154	158	158	152	147	142
115.0	174	165	161	161	161	165	165	158	152	147
117.5	190	178	171	169	168	171	171	165	158	152
120.0	206	193	182	178	175	177	178	173	165	158
122.5	222	208	195	187	182	183	184	181	173	165
125.0	238	224	211	197	190	189	191	189	182	172
127.5	253	241	226	211	198	194	196	195	190	182
130.0	270	257	243	227	210	204	203	202	199	190
132.5	290	275	260	245	228	217	211	208	206	200
135.0	312	294	278	264	246	232	221	216	212	209
137.5	335	314	298	282	266	250	237	228	221	217
140.0	358	335	317	302	288	273	260	247	237	226
142.5	380	356	338	323	310	297	283	271	258	245
145.0	402	378	360	344	332	320	308	296	284	270
147.5	425	402	382	367	353	343	333	322	310	298
150.0	448	426	404	389	374	364	354	344	335	325
152.5	470	447	427	409	396	384	375	367	359	351
155.0	492	470	450	431	418	407	396	389	382	375
157.5	514	493	475	456	440	429	419	410	404	397
160.0	536	517	501	482	465	449	439	430	421	415
162.5	554	537	520	504	489	474	459	449	442	435
165.0	575	558	543	528	515	501	488	475	463	456
167.5	598	580	567	554	541	529	517	507	497	486
170.0	623	607	593	580	570	560	549	539	530	521
172.5	644	632	620	607	598	589	581	573	566	558
175.0	665	657	649	641	633	625	618	610	603	598
177.5	686	682	678	674	670	666	663	659	655	652
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	14	14	14	14	14	14	14	14	14	14
7.5	14	14	14	14	14	14	14	14	14	14
10.0	14	14	14	14	14	14	14	14	14	14

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CANDELA TABULATION - (Cont.)

12.5	14	14	14	14	14	14	14	14	14	14
15.0	14	14	14	14	14	14	14	14	14	14
17.5	14	14	14	14	14	14	14	14	14	14
20.0	14	14	14	14	14	14	14	13	13	13
22.5	14	14	13	13	13	13	12	12	12	12
25.0	13	13	13	12	12	12	12	12	12	12
27.5	13	12	12	12	12	12	12	11	11	11
30.0	12	12	12	12	12	11	11	11	10	10
32.5	12	12	12	11	11	11	10	10	10	9
35.0	12	12	11	11	10	10	10	9	9	8
37.5	12	11	11	10	10	9	9	8	8	8
40.0	11	10	10	10	9	9	8	8	8	8
42.5	10	10	10	9	9	8	8	8	8	8
45.0	10	10	9	9	8	8	8	8	8	8
47.5	10	9	9	8	8	8	8	8	8	8
50.0	10	9	8	8	8	8	8	8	8	8
52.5	9	8	8	8	8	8	8	8	8	8
55.0	9	8	8	8	8	8	8	8	8	9
57.5	14	10	8	8	8	8	8	8	8	9
60.0	18	14	10	8	8	8	8	8	9	9
62.5	21	16	12	8	8	8	8	8	9	10
65.0	24	18	12	7	7	8	8	8	9	10
67.5	29	22	14	8	7	8	8	8	9	10
70.0	34	27	16	11	8	8	8	8	9	10
72.5	39	32	19	12	8	8	8	8	9	10
75.0	44	35	22	13	7	7	8	8	9	10
77.5	48	38	26	16	9	7	8	8	9	10
80.0	53	41	30	19	10	7	8	8	9	10
82.5	57	45	34	23	9	7	8	8	10	10
85.0	60	49	38	27	9	8	8	9	10	10
87.5	64	52	41	31	9	9	10	10	11	11
90.0	68	56	45	36	10	10	11	11	12	12
92.5	76	64	53	44	18	16	16	16	16	16
95.0	84	73	62	53	26	22	21	21	21	21
97.5	92	82	71	61	37	30	28	28	28	28
100.0	100	91	81	71	54	42	38	38	37	36
102.5	109	101	91	82	70	57	49	48	47	45
105.0	117	112	102	93	83	71	58	57	55	54
107.5	125	119	111	102	93	83	70	66	64	63
110.0	130	126	119	111	102	94	84	75	73	71
112.5	136	131	126	119	112	104	95	86	83	80
115.0	141	136	131	125	118	110	104	98	94	90
117.5	147	139	134	129	123	117	111	107	103	100
120.0	151	144	137	132	128	122	117	113	111	109
122.5	157	150	142	136	131	126	121	117	115	115
125.0	163	156	147	140	134	130	124	121	119	119
127.5	171	162	154	145	138	133	129	126	123	123
130.0	180	171	161	152	144	138	135	132	130	128
132.5	191	180	171	161	153	146	141	138	136	134
135.0	201	191	182	172	164	156	149	145	142	141
137.5	211	202	193	184	176	168	161	155	152	149
140.0	220	213	205	196	189	182	176	170	166	163
142.5	233	225	217	209	203	197	191	185	181	178
145.0	254	241	233	226	220	213	207	202	196	193
147.5	285	270	256	247	238	231	226	220	215	210
150.0	315	304	290	275	265	255	246	241	235	231

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CANDELA TABULATION - (Cont.)

152.5	343	334	326	314	301	287	277	268	259	253
155.0	368	362	355	346	339	327	316	305	297	289
157.5	390	384	378	372	366	359	353	347	338	331
160.0	409	404	399	394	389	385	381	377	372	368
162.5	428	423	419	414	410	407	404	401	399	396
165.0	451	445	440	436	432	429	425	422	418	416
167.5	477	469	463	458	454	450	446	442	439	437
170.0	513	504	497	489	482	475	470	467	464	462
172.5	552	545	538	534	526	521	516	512	507	503
175.0	593	589	584	580	576	572	569	565	562	559
177.5	648	645	642	639	636	633	630	628	626	624
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Horizontal Angles

Angles	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	14	14	14	14	14	14	14	14	14	14
2.5	14	14	14	14	14	14	14	14	14	14
5.0	14	14	14	14	14	14	14	14	14	14
7.5	14	14	14	14	14	14	14	14	14	14
10.0	14	14	14	14	14	14	14	14	14	14
12.5	14	14	14	14	14	14	14	14	14	14
15.0	14	14	14	14	14	14	14	14	14	14
17.5	14	14	13	13	13	13	12	12	12	12
20.0	12	12	12	12	12	12	12	12	12	12
22.5	12	12	12	12	12	11	11	11	11	11
25.0	11	11	11	11	11	10	10	10	10	10
27.5	11	10	10	10	10	10	10	10	10	10
30.0	10	10	9	9	9	9	9	9	9	9
32.5	9	9	9	9	9	9	8	8	8	8
35.0	8	8	8	8	8	8	8	8	8	8
37.5	8	8	8	8	8	8	8	8	8	8
40.0	8	8	8	8	8	8	8	8	8	8
42.5	8	8	8	8	8	8	8	9	9	9
45.0	8	8	8	8	9	9	9	9	10	10
47.5	8	8	9	9	10	10	10	10	10	10
50.0	9	9	9	10	10	10	10	10	11	11
52.5	9	9	10	10	10	11	11	11	12	12
55.0	9	10	10	10	11	11	12	12	12	12
57.5	10	10	11	11	11	12	12	12	12	13
60.0	10	10	11	11	12	12	12	12	13	13
62.5	10	11	11	12	12	12	12	13	13	13
65.0	10	11	12	12	12	12	12	13	13	13
67.5	10	10	11	12	12	12	12	13	13	13
70.0	10	11	11	12	12	12	12	13	13	13
72.5	10	11	12	12	12	12	13	13	13	13
75.0	11	11	12	12	12	13	13	13	14	14
77.5	10	11	12	12	13	13	14	14	14	14
80.0	10	11	12	12	13	14	14	14	15	15
82.5	11	12	12	13	13	14	14	15	15	16
85.0	11	12	12	13	14	14	15	16	16	16
87.5	12	12	12	13	14	14	15	16	16	16
90.0	12	13	13	14	14	15	16	16	16	17
92.5	17	17	18	18	19	20	21	22	22	23
95.0	21	21	22	23	23	23	24	24	25	25
97.5	27	27	27	27	27	27	27	27	27	27

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CANDELA TABULATION - (Cont.)

100.0	34	33	33	33	32	32	32	32	31	31
102.5	43	43	42	41	40	40	38	38	37	37
105.0	53	53	52	50	49	49	48	47	47	47
107.5	62	60	60	59	58	58	58	57	58	58
110.0	71	69	68	67	67	66	65	66	65	65
112.5	79	78	77	75	75	75	74	73	73	73
115.0	89	87	85	84	83	82	82	82	81	81
117.5	99	98	95	93	92	91	90	89	89	88
120.0	108	108	106	104	103	101	100	99	98	97
122.5	115	114	114	113	112	111	110	109	108	108
125.0	121	121	121	121	120	119	119	117	117	117
127.5	124	125	126	126	126	126	126	125	124	124
130.0	128	128	129	129	130	132	132	132	132	132
132.5	133	133	132	132	133	133	134	134	136	136
135.0	140	139	139	139	138	137	138	138	139	139
137.5	148	147	147	146	146	146	146	146	146	146
140.0	159	157	156	154	154	153	154	154	154	154
142.5	175	172	169	167	165	164	164	163	162	161
145.0	189	186	184	182	181	180	178	177	176	176
147.5	206	202	199	196	194	194	193	192	191	191
150.0	226	222	218	215	213	211	209	207	206	205
152.5	249	245	241	239	236	233	230	228	227	226
155.0	281	274	268	265	261	258	255	253	252	250
157.5	324	318	312	305	300	294	289	285	283	281
160.0	365	360	354	348	343	338	335	332	329	327
162.5	394	388	385	382	379	376	374	373	371	370
165.0	413	410	408	407	405	403	402	401	400	400
167.5	434	432	430	429	427	426	425	424	423	423
170.0	459	457	455	453	452	451	449	449	448	447
172.5	499	495	492	489	486	484	482	480	479	478
175.0	556	554	551	549	547	546	544	543	542	541
177.5	621	620	618	617	615	614	613	612	611	611
180.0	707	707	707	707	707	707	707	707	707	707

Vert. Angles	Horizontal Angles		
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	14	14	14
2.5	14	14	14
5.0	14	14	14
7.5	14	14	14
10.0	14	14	14
12.5	14	14	14
15.0	14	14	14
17.5	12	12	12
20.0	12	12	12
22.5	11	11	11
25.0	10	10	10
27.5	10	10	10
30.0	9	9	9
32.5	8	8	8
35.0	8	8	8
37.5	8	8	8
40.0	8	8	8
42.5	9	9	9
45.0	10	10	10

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CANDELA TABULATION - (Cont.)

47.5	10	10	10
50.0	11	11	11
52.5	12	12	12
55.0	12	12	12
57.5	13	13	13
60.0	13	13	13
62.5	13	13	13
65.0	13	13	13
67.5	13	13	13
70.0	13	13	14
72.5	13	13	13
75.0	14	13	13
77.5	14	14	14
80.0	15	15	15
82.5	16	16	16
85.0	16	16	16
87.5	16	16	16
90.0	18	18	19
92.5	22	20	19
95.0	25	23	24
97.5	27	26	29
100.0	30	31	32
102.5	38	39	39
105.0	49	48	47
107.5	58	58	58
110.0	65	65	65
112.5	73	72	72
115.0	81	81	81
117.5	88	88	88
120.0	97	97	97
122.5	108	108	108
125.0	117	117	117
127.5	124	124	125
130.0	132	133	134
132.5	137	137	138
135.0	139	139	140
137.5	146	147	147
140.0	154	155	156
142.5	161	162	163
145.0	175	176	176
147.5	191	191	191
150.0	204	204	205
152.5	225	225	226
155.0	250	250	250
157.5	279	279	279
160.0	327	326	327
162.5	370	370	370
165.0	399	399	400
167.5	423	423	423
170.0	447	447	447
172.5	477	477	477
175.0	541	541	541
177.5	611	611	611
180.0	707	707	707

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6.93	N.A.	0.20
0-30	18.72	N.A.	0.40
0-40	40.14	N.A.	0.90
0-60	146.81	N.A.	3.20
0-80	455.50	N.A.	10.00
0-90	709.35	N.A.	15.60
10-90	707.88	N.A.	15.60
20-40	33.22	N.A.	0.70
20-50	69.86	N.A.	1.50
40-70	241.02	N.A.	5.30
60-80	308.69	N.A.	6.80
70-80	174.33	N.A.	3.80
80-90	253.85	N.A.	5.60
90-110	1291.79	N.A.	28.40
90-120	1993.13	N.A.	43.80
90-130	2497.69	N.A.	54.90
90-150	3308.84	N.A.	72.70
90-180	3840.9	N.A.	84.40
110-180	2549.11	N.A.	56.00
0-180	4550.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.46
10-20	5.46
20-30	11.79
30-40	21.43
40-50	36.65
50-60	70.02
60-70	134.35
70-80	174.33
80-90	253.85
90-100	458.83
100-110	832.95
110-120	701.35
120-130	504.56
130-140	436.75
140-150	374.40
150-160	286.55
160-170	180.52
170-180	65.00

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	99	99	99	99	87	87	87	87	64	64	64	44	44	44	25	25	25	16
1	87	82	78	73	76	72	68	64	52	49	47	34	32	31	17	16	15	8
2	79	70	64	58	68	61	56	51	44	40	37	29	26	24	14	13	11	5
3	71	61	53	47	62	53	47	41	38	34	30	25	22	19	12	10	9	3
4	65	54	45	39	56	47	40	34	34	29	25	22	18	16	10	8	7	2
5	59	47	39	33	51	41	34	29	30	25	21	19	16	13	9	7	6	2
6	54	42	34	28	47	37	30	25	26	22	18	17	14	11	8	6	5	1
7	50	38	30	24	43	33	26	21	24	19	15	15	12	10	7	5	4	1
8	46	34	26	21	40	30	23	18	21	17	13	14	11	8	7	5	4	1
9	43	31	23	18	37	27	20	16	19	15	12	13	10	7	6	4	3	1
10	40	28	21	16	34	24	18	14	18	13	10	12	9	7	6	4	3	1

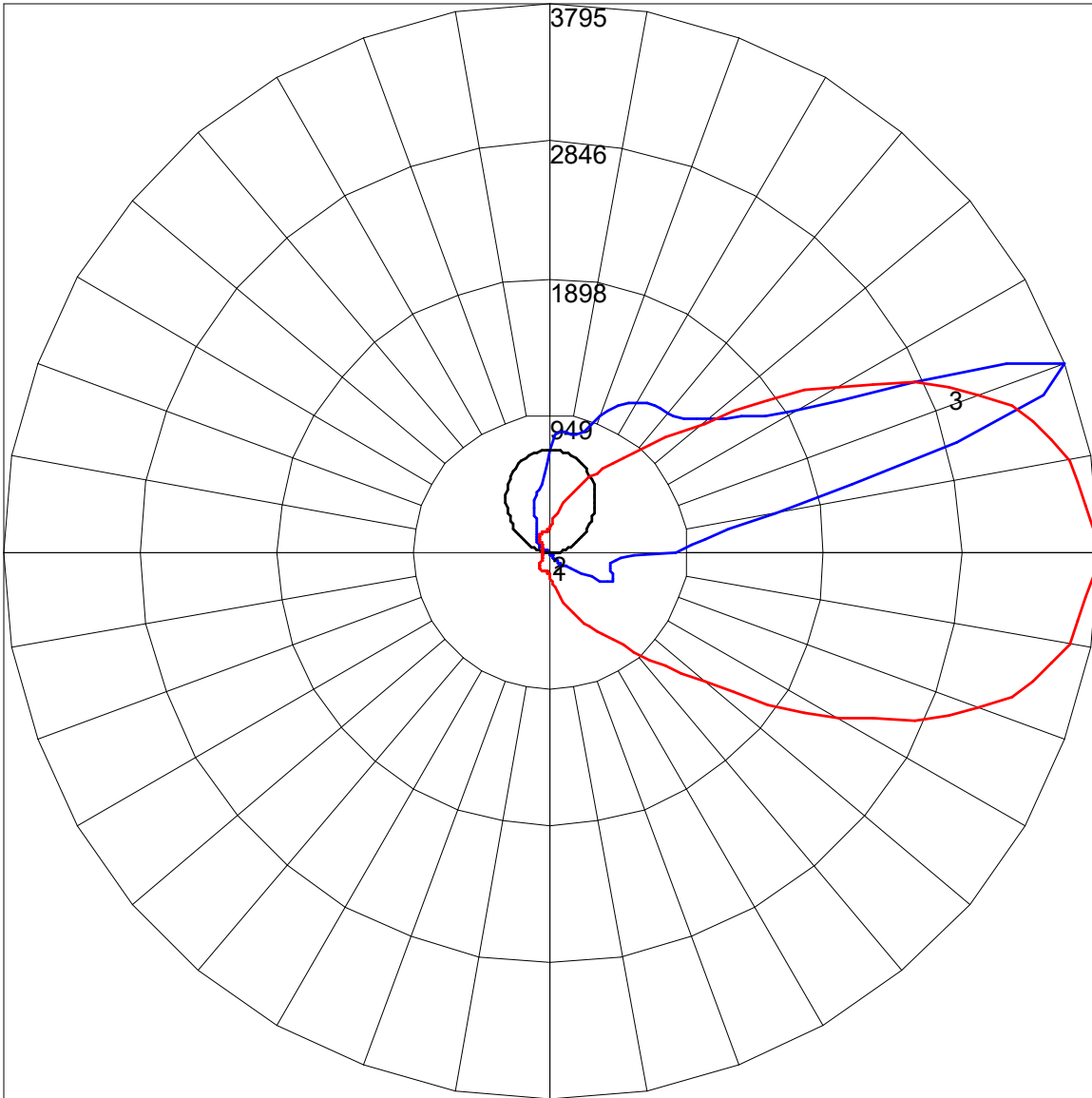
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411902.IES

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	14.1	14.8	15.3	15.9	17.6	5.3	5.3	5.3	5.3	5.3
	3H	19.8	20.4	20.9	21.6	23.3	5.3	5.3	5.3	5.3	5.3
	4H	21.7	22.3	22.9	23.5	25.2	5.3	5.3	5.3	5.3	6.4
	6H	23.8	24.3	25.0	25.5	27.2	5.3	5.3	5.9	6.4	8.1
	8H	25.0	25.5	26.2	26.7	28.4	5.5	6.0	6.7	7.2	8.9
	12H	26.4	26.9	27.6	28.1	29.9	6.3	6.8	7.5	8.0	9.7
4H	2H	14.4	15.0	15.6	16.1	17.8	5.8	6.4	7.0	7.6	9.3
	3H	20.3	20.8	21.5	22.0	23.7	8.7	9.3	9.9	10.5	12.2
	4H	22.4	22.9	23.7	24.1	25.8	10.3	10.8	11.6	12.0	13.7
	6H	24.7	25.1	25.9	26.3	28.0	11.5	11.9	12.7	13.1	14.8
	8H	26.0	26.4	27.2	27.6	29.3	11.9	12.3	13.1	13.5	15.2
	12H	27.6	28.0	28.9	29.2	30.9	12.2	12.6	13.4	13.8	15.5
8H	4H	22.6	23.0	23.8	24.2	26.0	13.9	14.3	15.1	15.5	17.2
	6H	25.1	25.5	26.4	26.7	28.5	15.6	15.9	16.8	17.2	18.9
	8H	26.6	26.9	27.9	28.2	29.9	16.3	16.6	17.6	17.9	19.6
	12H	28.5	28.8	29.7	30.0	31.8	16.9	17.1	18.1	18.3	20.1
12H	4H	22.6	23.0	23.9	24.2	26.0	14.8	15.2	16.1	16.4	18.1
	6H	25.2	25.5	26.4	26.8	28.5	16.8	17.1	18.0	18.3	20.1
	8H	26.8	27.1	28.0	28.3	30.1	17.8	18.1	19.0	19.3	21.0

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 3795 Located At Horizontal Angle = 0, Vertical Angle = 110

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 (110) (Through Max. Cd.)