

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L032411905
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 3/27/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSS121-44-35-ND-L: 3700 luminaire lumens (~1003 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	3700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	47.1
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	88	88	75
55	155	155	139
65	294	420	294
75	412	618	549
85	3668	3056	1936

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	6	6	6	6	6	6	6	6	6	6
2.5	6	6	6	6	6	6	6	6	6	6
5.0	6	7	7	7	6	7	7	6	6	6
7.5	6	6	6	6	6	6	6	7	6	7
10.0	6	6	6	6	6	6	6	6	6	6
12.5	6	6	6	6	6	6	6	6	6	6
15.0	5	5	5	5	5	5	6	6	6	6
17.5	5	5	5	5	5	5	5	5	5	5
20.0	5	5	5	5	5	5	5	5	5	5
22.5	5	5	5	5	5	5	5	5	5	5
25.0	5	5	5	5	5	5	5	5	5	5
27.5	5	5	5	5	5	5	5	5	5	5
30.0	5	5	5	5	5	5	5	5	5	5
32.5	5	5	5	5	5	6	5	5	5	5
35.0	5	5	6	6	6	6	6	6	6	6
37.5	6	6	6	6	6	6	6	6	6	6
40.0	6	6	6	6	6	6	6	6	6	6
42.5	6	7	7	7	7	7	7	7	7	7
45.0	7	7	7	7	7	7	7	7	7	7
47.5	8	8	8	8	8	8	8	8	8	8
50.0	8	8	8	8	9	8	8	8	8	8
52.5	9	9	9	9	10	10	10	10	9	8
55.0	10	10	10	11	10	11	11	11	11	10
57.5	11	11	11	11	12	12	13	13	13	13
60.0	12	11	11	13	14	14	15	14	14	15
62.5	13	14	13	14	14	15	17	17	17	17
65.0	14	14	14	14	15	15	16	17	21	20
67.5	16	16	16	16	17	17	16	16	19	23
70.0	17	17	17	17	18	18	18	17	17	19
72.5	17	17	17	19	20	20	19	18	18	18
75.0	12	13	15	18	22	24	21	21	19	18
77.5	9	9	11	14	17	24	21	24	27	27
80.0	12	12	13	16	19	20	17	23	22	24
82.5	22	22	22	24	25	24	24	24	21	21
85.0	36	36	37	38	40	40	39	37	33	30
87.5	71	71	71	72	73	72	72	69	65	60
90.0	128	129	134	135	138	143	155	176	215	274
92.5	1322	1316	1312	1290	1261	1213	1150	1060	964	858
95.0	1619	1618	1604	1572	1530	1474	1403	1303	1194	1075
97.5	1847	1854	1831	1788	1743	1669	1576	1475	1360	1225
100.0	1999	2012	1971	1942	1889	1802	1685	1535	1364	1217
102.5	2038	2052	2002	1971	1862	1774	1652	1506	1342	1223
105.0	2070	2083	2047	1989	1888	1775	1656	1534	1416	1290
107.5	2160	2135	2101	2037	1949	1850	1739	1612	1459	1293
110.0	2214	2192	2151	2092	2020	1927	1776	1613	1433	1274
112.5	2225	2208	2125	2087	1988	1878	1715	1550	1401	1237
115.0	2107	2092	2065	1983	1878	1755	1635	1491	1336	1189
117.5	1974	1969	1943	1870	1780	1658	1538	1413	1293	1150
120.0	1813	1831	1809	1751	1666	1556	1446	1333	1227	1118
122.5	1685	1697	1676	1630	1553	1471	1376	1273	1175	1081
125.0	1570	1580	1567	1520	1459	1394	1309	1216	1125	1039
127.5	1487	1486	1467	1427	1370	1316	1248	1163	1077	1000
130.0	1409	1405	1386	1341	1297	1242	1181	1109	1035	953
132.5	1331	1328	1310	1266	1226	1172	1112	1057	985	918

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CANDELA TABULATION - (Cont.)

135.0	1261	1252	1235	1192	1161	1112	1062	1007	944	883
137.5	1198	1182	1166	1128	1099	1056	1013	962	909	843
140.0	1130	1120	1108	1072	1040	1007	966	920	870	813
142.5	1080	1066	1051	1026	994	963	925	884	838	783
145.0	1021	1010	1001	978	950	921	886	846	800	765
147.5	967	959	947	927	904	883	854	810	772	745
150.0	921	911	899	882	864	845	820	783	749	724
152.5	870	862	855	843	828	808	784	755	729	707
155.0	828	820	815	806	790	774	750	727	703	657
157.5	788	781	776	766	750	733	708	680	643	612
160.0	740	731	725	718	713	702	673	636	600	561
162.5	686	685	685	679	670	641	600	564	539	520
165.0	651	647	644	635	612	572	540	519	511	515
167.5	616	613	607	586	543	517	492	495	504	512
170.0	574	572	560	510	479	466	477	485	488	482
172.5	523	511	452	419	413	431	447	447	443	435
175.0	387	344	318	317	343	355	352	340	329	317
177.5	143	137	151	167	184	189	190	194	197	200
180.0	212	212	212	212	212	212	212	212	212	212

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	6	6	6	6	6	6	6	6	6	6
2.5	6	6	6	6	6	6	6	6	6	6
5.0	6	6	6	6	6	6	6	6	6	6
7.5	7	6	6	6	6	6	6	6	6	6
10.0	6	6	6	6	6	6	6	6	6	6
12.5	6	6	6	6	6	6	6	6	6	6
15.0	6	6	6	6	6	6	5	6	5	6
17.5	5	5	5	5	5	5	5	5	5	5
20.0	5	5	5	5	5	5	5	5	5	5
22.5	5	5	5	5	5	5	5	5	5	5
25.0	5	5	5	5	5	5	5	5	5	5
27.5	5	5	5	5	5	5	5	5	5	5
30.0	5	5	5	5	5	5	5	5	5	5
32.5	5	5	5	5	5	5	5	5	5	5
35.0	5	5	5	5	5	5	5	5	5	5
37.5	6	5	5	5	5	5	5	5	5	5
40.0	6	6	6	6	5	5	5	5	5	5
42.5	7	6	6	6	6	5	5	5	5	5
45.0	7	7	7	6	6	6	6	6	6	6
47.5	8	7	7	7	7	7	6	6	6	7
50.0	8	8	8	8	8	8	8	8	8	8
52.5	8	8	9	9	9	9	8	8	8	8
55.0	10	10	10	10	10	10	10	9	9	9
57.5	11	11	11	12	11	11	11	11	11	11
60.0	15	13	13	13	13	12	11	11	11	11
62.5	18	18	15	14	14	13	13	12	12	13
65.0	21	22	20	16	15	14	14	14	14	14
67.5	25	27	26	21	16	16	15	14	14	14
70.0	27	30	30	27	20	17	16	15	15	15
72.5	21	29	33	33	30	19	17	16	16	15
75.0	18	21	29	37	34	27	18	17	16	16
77.5	25	20	21	27	37	34	24	19	17	17
80.0	25	28	31	21	25	35	32	21	18	17

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CANDELA TABULATION - (Cont.)

82.5	21	22	24	23	21	23	31	24	19	17
85.0	28	25	23	22	23	21	23	24	19	17
87.5	54	46	43	37	32	29	29	38	21	20
90.0	317	320	278	238	197	145	93	49	29	27
92.5	756	648	543	434	324	217	122	63	42	39
95.0	946	819	666	481	348	235	129	75	53	48
97.5	1049	867	678	530	389	246	140	84	65	59
100.0	1058	920	775	584	418	275	177	116	85	79
102.5	1118	988	808	611	434	311	216	151	113	109
105.0	1134	962	785	616	530	367	269	205	152	148
107.5	1132	969	808	673	584	431	342	271	212	207
110.0	1115	962	832	705	616	479	404	334	275	271
112.5	1088	952	829	729	651	535	457	382	317	309
115.0	1064	943	820	715	657	542	474	394	329	324
117.5	1028	916	813	724	632	555	485	404	339	332
120.0	1007	905	815	719	638	568	495	416	347	342
122.5	981	882	803	723	643	563	501	415	341	337
125.0	947	862	788	719	647	571	515	428	349	342
127.5	920	848	780	705	638	564	499	422	335	323
130.0	878	813	752	686	629	553	480	403	314	307
132.5	841	782	733	673	611	542	476	397	301	291
135.0	818	758	714	649	592	495	422	343	255	250
137.5	792	737	673	614	555	488	426	351	262	253
140.0	769	725	671	607	547	490	431	355	264	249
142.5	749	701	660	603	543	490	431	342	256	241
145.0	727	697	646	597	534	489	433	348	256	240
147.5	714	672	629	586	527	480	428	345	247	235
150.0	697	663	612	558	513	465	417	341	237	235
152.5	666	627	574	532	496	456	402	325	224	224
155.0	622	585	542	508	477	434	385	291	207	212
157.5	579	549	514	485	467	438	388	287	197	205
160.0	536	514	501	493	476	430	383	277	191	201
162.5	521	517	505	489	458	423	366	263	186	193
165.0	516	508	498	482	454	418	339	233	186	186
167.5	511	497	477	456	430	378	296	214	186	188
170.0	470	456	441	418	374	317	255	202	181	180
172.5	422	400	373	341	304	266	227	197	184	183
175.0	302	285	268	251	232	218	208	198	190	186
177.5	201	202	203	202	202	202	204	202	199	198
180.0	212	212	212	212	212	212	212	212	212	212

Vert. 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	6	6	6	6	6	6	6	6	6	6
2.5	6	6	6	6	6	6	6	6	6	6
5.0	6	6	6	6	6	6	6	6	6	6
7.5	6	6	6	6	6	6	7	6	7	7
10.0	6	6	6	6	6	6	6	6	6	6
12.5	6	6	6	6	6	6	6	6	6	6
15.0	5	6	6	6	6	6	6	6	6	5
17.5	5	5	5	5	5	5	5	5	5	5
20.0	5	5	5	5	5	5	5	5	5	5
22.5	5	5	5	5	5	5	5	5	5	5
25.0	5	5	5	5	5	5	5	5	5	5
27.5	5	5	5	5	5	5	5	5	5	5

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CANDELA TABULATION - (Cont.)

30.0	5	5	5	5	5	5	5	5	5	5
32.5	5	5	5	5	5	5	5	5	6	6
35.0	5	5	5	5	6	6	6	6	6	6
37.5	5	5	6	6	6	7	7	7	7	8
40.0	5	6	6	6	7	7	8	8	8	8
42.5	6	6	7	7	7	8	8	8	8	8
45.0	6	7	7	8	8	8	8	8	8	9
47.5	7	7	8	8	8	8	8	9	9	9
50.0	8	8	8	8	8	9	9	9	10	10
52.5	9	9	8	9	9	9	10	10	10	11
55.0	10	10	10	9	10	10	10	11	11	11
57.5	11	11	11	11	11	11	11	11	11	11
60.0	12	12	12	13	11	11	11	11	11	11
62.5	13	14	14	14	13	12	12	12	12	13
65.0	14	14	14	14	14	13	12	13	13	13
67.5	15	15	16	15	15	14	13	13	14	14
70.0	15	16	16	16	15	14	13	13	14	14
72.5	16	16	16	16	14	13	13	13	14	14
75.0	16	16	16	16	13	13	13	14	14	14
77.5	16	16	16	15	13	13	14	14	14	14
80.0	17	17	16	14	13	13	13	14	14	14
82.5	18	17	16	14	14	14	14	14	14	14
85.0	20	20	17	14	14	14	14	14	15	15
87.5	21	23	17	15	16	17	17	17	18	19
90.0	30	30	19	15	15	16	17	17	18	19
92.5	39	43	28	21	17	15	15	15	15	16
95.0	46	49	43	33	30	27	24	20	17	16
97.5	56	55	59	39	36	37	37	37	34	31
100.0	74	68	68	58	43	43	43	43	44	44
102.5	100	91	86	84	52	50	50	49	49	50
105.0	137	127	116	105	76	62	59	59	59	59
107.5	195	178	162	145	115	80	71	70	69	69
110.0	261	234	208	189	158	129	89	84	83	82
112.5	297	267	234	212	174	144	107	101	99	98
115.0	318	290	253	228	187	153	125	120	117	115
117.5	334	313	278	252	207	170	144	139	136	134
120.0	342	317	288	256	212	177	165	160	156	154
122.5	341	328	297	262	219	193	186	181	177	174
125.0	349	341	309	274	225	215	208	202	198	194
127.5	332	323	293	261	247	237	230	223	218	215
130.0	322	311	288	278	268	259	251	244	239	235
132.5	301	301	307	298	289	280	272	265	259	255
135.0	288	311	322	318	310	300	292	285	278	274
137.5	292	319	333	335	328	319	311	304	297	293
140.0	294	326	342	350	346	339	329	323	316	311
142.5	292	328	350	361	362	356	348	341	334	329
145.0	293	329	357	367	375	372	366	359	352	348
147.5	292	323	357	372	383	387	382	376	370	364
150.0	287	328	351	371	384	396	397	392	387	382
152.5	270	319	345	365	380	392	402	406	402	399
155.0	256	313	332	357	374	387	395	406	412	413
157.5	247	303	329	346	364	379	388	396	404	416
160.0	223	279	329	347	361	372	376	386	396	402
162.5	205	250	302	342	356	368	373	374	377	388
165.0	199	219	265	313	345	354	362	367	369	370
167.5	198	205	224	261	301	333	346	352	355	355

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CANDELA TABULATION - (Cont.)

170.0	186	195	201	215	242	271	297	320	337	339
172.5	185	190	197	201	203	212	227	241	254	269
175.0	186	186	186	186	186	187	189	192	194	196
177.5	196	195	193	192	191	190	189	188	186	183
180.0	212	212	212	212	212	212	212	212	212	212

Vert. 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	6	6	6	6	6	6	6
2.5	6	6	6	6	6	6	6
5.0	6	6	6	6	6	6	6
7.5	7	7	6	6	6	6	6
10.0	6	6	6	6	6	6	6
12.5	6	6	6	6	6	5	5
15.0	5	5	5	5	5	5	5
17.5	5	5	5	5	5	5	5
20.0	5	5	5	5	5	5	5
22.5	5	5	5	5	5	5	5
25.0	5	5	5	5	5	5	5
27.5	5	5	5	5	5	5	5
30.0	5	5	5	5	5	5	5
32.5	6	6	6	6	6	6	6
35.0	7	6	7	7	7	7	7
37.5	8	8	8	8	8	8	8
40.0	8	8	8	8	8	8	8
42.5	8	8	8	8	9	9	9
45.0	9	9	9	9	9	9	9
47.5	10	10	10	10	10	10	10
50.0	10	10	11	10	11	11	11
52.5	11	11	11	11	11	11	11
55.0	11	11	11	11	11	11	11
57.5	11	11	11	11	11	11	12
60.0	12	12	12	12	12	12	12
62.5	13	13	13	14	13	13	14
65.0	14	14	14	14	14	14	14
67.5	14	14	14	14	14	14	14
70.0	14	14	14	14	14	14	14
72.5	14	14	14	14	15	15	15
75.0	14	14	14	15	15	15	15
77.5	14	14	15	15	15	15	15
80.0	14	15	15	15	15	16	16
82.5	15	15	15	16	16	16	16
85.0	16	17	17	17	17	17	17
87.5	20	21	21	21	22	22	23
90.0	20	21	21	22	22	23	23
92.5	17	17	17	18	18	18	18
95.0	16	16	16	16	16	16	16
97.5	27	23	21	18	17	16	16
100.0	44	43	43	42	41	40	40
102.5	51	52	52	52	52	54	56
105.0	59	59	60	61	62	65	68
107.5	70	70	71	72	73	75	78
110.0	82	83	84	84	87	88	91
112.5	97	97	98	100	101	103	104
115.0	114	114	114	115	116	118	119

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CANDELA TABULATION - (Cont.)

117.5	132	132	132	132	133	135	135
120.0	151	150	150	151	151	152	152
122.5	172	170	169	169	170	170	170
125.0	192	189	189	188	189	189	189
127.5	212	209	208	208	208	208	208
130.0	231	229	227	227	227	227	227
132.5	250	248	246	246	246	245	247
135.0	270	267	265	264	264	263	265
137.5	288	285	283	282	282	282	283
140.0	307	304	301	300	299	299	301
142.5	325	321	319	317	317	317	317
145.0	342	339	336	335	334	333	335
147.5	360	356	354	352	350	350	351
150.0	377	373	371	369	367	367	367
152.5	394	390	387	386	385	384	384
155.0	410	406	404	402	401	400	401
157.5	422	421	418	418	417	416	418
160.0	415	425	427	427	428	427	428
162.5	398	412	425	427	428	428	428
165.0	380	389	406	421	424	425	425
167.5	355	358	371	393	412	415	415
170.0	338	329	329	341	364	387	391
172.5	278	283	278	280	291	317	326
175.0	196	198	194	185	180	173	184
177.5	181	177	174	170	154	129	116
180.0	212	212	212	212	212	212	212

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2.12	N.A.	0.10
0-30	4.44	N.A.	0.10
0-40	8.06	N.A.	0.20
0-60	23.21	N.A.	0.60
0-80	57.19	N.A.	1.50
0-90	95.07	N.A.	2.60
10-90	94.49	N.A.	2.60
20-40	5.94	N.A.	0.20
20-50	11.75	N.A.	0.30
40-70	30.07	N.A.	0.80
60-80	33.97	N.A.	0.90
70-80	19.06	N.A.	0.50
80-90	37.89	N.A.	1.00
90-110	1180.25	N.A.	31.90
90-120	1876.81	N.A.	50.70
90-130	2447.3	N.A.	66.10
90-150	3228.42	N.A.	87.30
90-180	3604.76	N.A.	97.40
110-180	2424.51	N.A.	65.50
0-180	3699.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.58
10-20	1.54
20-30	2.31
30-40	3.62
40-50	5.81
50-60	9.34
60-70	14.92
70-80	19.06
80-90	37.89
90-100	493.14
100-110	687.11
110-120	696.56
120-130	570.49
130-140	443.79
140-150	337.33
150-160	229.26
160-170	119.83
170-180	27.26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.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	
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	46	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

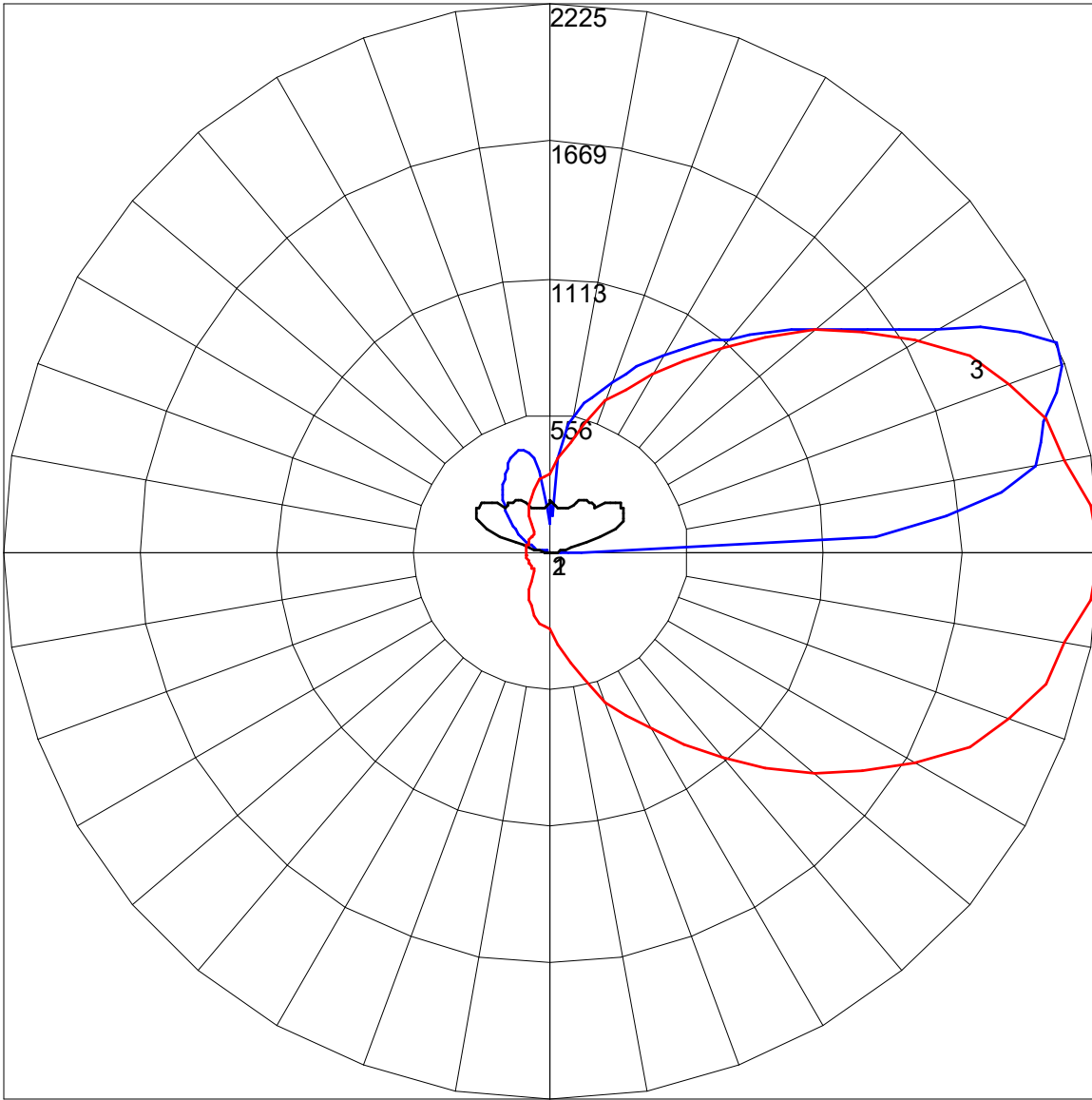
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UGR TABLE - CORRECTED

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	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	3H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	8H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.5
	12H	4.7	5.1	6.0	6.3	8.2	4.5	4.5	4.9	5.2	7.1
4H	2H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	3H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	4H	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	6H	4.5	4.5	4.5	4.5	4.9	4.5	4.5	4.9	5.2	7.0
	8H	4.5	4.5	4.7	5.0	6.8	4.9	5.2	6.2	6.5	8.3
	12H	6.9	7.2	8.2	8.5	10.3	6.3	6.6	7.6	7.8	9.7
8H	4H	4.5	4.5	4.5	4.5	4.9	4.5	4.5	4.5	4.5	4.9
	6H	4.5	4.5	4.8	5.0	6.9	4.5	4.7	5.8	6.0	7.9
	8H	5.5	5.7	6.8	7.0	8.9	5.9	6.1	7.2	7.4	9.3
	12H	9.1	9.3	10.4	10.6	12.5	7.6	7.7	8.9	9.0	10.9
12H	4H	4.5	4.5	4.5	4.5	5.3	4.5	4.5	4.5	4.5	5.0
	6H	4.5	4.5	5.3	5.6	7.4	4.7	4.9	6.0	6.2	8.1
	8H	6.3	6.5	7.6	7.8	9.7	6.3	6.5	7.6	7.8	9.6

Maximum UGR = 12.5

POLAR GRAPH



Maximum Candela = 2225 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.)