



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MR16-12-24V06WLA-LED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[ISSUE DATE] 12 March 2019

[TEST LAB] Spectra Lux Industries Inc.

[TEST] S1903122-R1

[LUMCAT] LEME 12-24V 06W BAWIC

[LUMINAIRE] Lamp MR16 From AW - 12 to 24DC

[LAMP] Clusters of (4) HL-AT-2835D2W-2C-S1-08-PCT-HR3 LEDs c/w Integrated Driver @ 12.00V

[BURNING] Axial (507 Luminaire Lumens)

[REFLECTOR] None

[LENS] Acrylic Diffuser

[HOUSING] Polymeric Molded

[REPORT MODULE] IES LM-35-1989 Floodlight Report

[DISTRIBUTION] NEMA 4Hx4V (Max. CP at 0.0H,-2.5V)

[MANUFAC] BeLuce Canada Inc.

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor, Emergency

[SEARCH_MOUNTING] Ceiling, Wall

[SEARCH_CERTIFICATION] CSA

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	5.96
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.50
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.17 ft (Diameter)
Luminous Width (90-270)	0.17 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14633	13936	16027
55	12886	12886	13745
65	13991	12825	13991
75	9519	13326	15230
85	5653	0	22613

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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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1447	1446	1445	1445	1444	1444	1444	1444	1444	1444
5.0	1313	1312	1311	1310	1310	1311	1312	1313	1315	1318
7.5	1137	1136	1135	1136	1138	1140	1143	1148	1153	1151
10.0	940	939	940	942	945	950	957	954	954	956
12.5	736	735	737	740	745	749	748	750	753	757
15.0	549	549	551	556	562	560	562	565	570	569
17.5	399	400	402	406	408	408	410	412	413	414
20.0	286	287	289	293	292	293	296	295	296	298
22.5	202	202	204	205	206	207	208	208	210	209
25.0	142	142	144	145	145	146	146	146	147	147
27.5	101	102	103	104	104	104	104	105	105	105
30.0	76	76	77	77	78	78	78	78	78	77
32.5	58	58	59	58	59	59	59	59	59	59
35.0	45	45	45	45	45	45	45	45	45	45
37.5	35	35	35	35	35	35	35	35	35	35
40.0	28	28	28	28	28	28	28	28	28	28
42.5	23	23	23	23	24	24	24	24	24	24
45.0	21	21	21	20	21	21	21	21	21	21
47.5	19	19	19	19	19	19	19	19	19	19
50.0	17	18	18	18	17	17	17	18	18	17
52.5	16	16	16	16	16	16	16	17	16	16
55.0	15	15	15	15	15	15	15	16	15	15
57.5	14	14	14	14	14	14	14	14	14	14
60.0	13	13	13	13	13	13	13	13	14	13
62.5	12	12	12	12	12	12	12	12	13	13
65.0	12	12	12	12	12	12	11	11	12	12
67.5	11	11	11	11	11	11	11	10	11	11
70.0	10	10	10	10	10	10	10	10	9	10
72.5	9	9	9	9	9	9	9	9	8	9
75.0	5	6	5	5	5	5	4	4	4	5
77.5	1	1	1	1	1	1	1	1	1	1
80.0	1	1	1	1	1	1	1	1	1	1
82.5	1	1	1	1	1	1	1	1	1	0
85.0	1	1	1	1	1	1	1	1	1	1
87.5	1	1	1	1	1	1	1	1	1	1
90.0	1	1	1	1	1	1	1	1	1	1

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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1445	1445	1446	1447	1448	1449	1451	1452	1454	1455
5.0	1321	1324	1328	1328	1328	1329	1331	1333	1336	1339
7.5	1151	1153	1155	1158	1162	1167	1172	1181	1181	1190
10.0	958	963	968	969	971	974	979	983	987	992
12.5	760	761	763	767	771	780	779	783	787	792
15.0	571	573	576	578	580	585	590	598	600	605
17.5	417	418	419	421	426	429	432	435	441	443
20.0	297	298	298	302	305	307	309	311	315	318
22.5	210	210	211	214	216	217	218	220	223	226
25.0	148	148	150	152	152	152	154	156	157	158
27.5	106	107	108	108	108	108	109	110	110	111
30.0	77	78	79	79	78	78	79	80	81	82

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CANDELA TABULATION - (Cont.)

32.5	59	59	59	59	59	59	59	60	61	61
35.0	45	45	45	45	45	45	46	46	47	47
37.5	35	35	35	34	35	35	36	36	36	36
40.0	28	28	28	27	28	28	28	29	29	29
42.5	24	24	23	23	23	23	23	23	24	24
45.0	20	21	21	21	21	20	20	20	20	21
47.5	19	19	19	19	19	19	19	19	18	19
50.0	17	17	18	17	17	18	17	17	17	17
52.5	16	16	16	16	16	16	16	16	16	16
55.0	15	15	15	15	15	15	15	15	15	15
57.5	14	14	15	14	14	14	14	14	14	14
60.0	13	13	13	14	13	13	13	13	14	13
62.5	12	12	12	12	12	12	13	12	13	13
65.0	12	11	11	12	11	11	11	11	11	12
67.5	11	11	10	10	11	10	10	11	11	11
70.0	10	10	9	9	10	10	9	10	10	10
72.5	9	9	9	8	8	9	9	8	9	9
75.0	6	7	7	7	7	7	7	7	7	8
77.5	2	3	3	4	5	5	6	6	6	6
80.0	1	1	2	2	3	3	4	4	5	5
82.5	0	0	0	1	1	1	1	1	2	2
85.0	1	0	0	0	0	0	0	0	0	0
87.5	1	0	0	0	0	0	0	0	0	0
90.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1457	1459	1461	1464	1466	1468	1471	1473	1476	1479
5.0	1342	1346	1350	1355	1361	1363	1366	1369	1373	1377
7.5	1187	1189	1191	1195	1199	1204	1210	1217	1228	1229
10.0	997	1000	1005	1011	1020	1022	1026	1032	1038	1046
12.5	798	804	810	814	820	826	834	841	846	852
15.0	609	615	621	627	635	640	646	653	661	667
17.5	449	454	458	463	473	475	485	487	493	499
20.0	320	324	329	333	336	339	345	350	354	358
22.5	227	230	232	235	236	236	239	244	249	253
25.0	161	162	163	166	169	170	172	174	177	179
27.5	114	117	118	119	121	123	124	125	128	129
30.0	83	84	86	86	88	90	91	91	93	95
32.5	62	62	63	64	64	66	67	68	69	70
35.0	47	48	48	48	48	49	51	51	53	54
37.5	36	37	37	37	37	38	39	39	39	40
40.0	29	29	29	30	30	30	30	31	31	31
42.5	24	24	24	24	25	25	25	25	26	26
45.0	21	21	21	21	21	22	22	22	22	22
47.5	18	19	19	19	19	19	19	20	20	19
50.0	17	18	18	18	18	18	18	18	18	18
52.5	16	16	16	16	16	17	17	17	17	17
55.0	15	15	15	16	16	16	16	15	16	15
57.5	15	15	15	15	15	15	15	15	15	15
60.0	14	14	14	14	14	14	14	14	14	14
62.5	13	13	13	13	13	13	13	13	13	13
65.0	12	12	12	11	12	12	12	12	13	12
67.5	11	11	11	11	11	11	11	11	11	11

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70.0	10	10	10	10	10	10	10	10	10	11
72.5	9	9	9	9	9	9	9	9	9	9
75.0	7	8	7	8	7	7	8	8	8	8
77.5	6	6	6	6	7	6	6	6	6	7
80.0	5	5	5	5	5	5	5	5	5	5
82.5	3	4	3	4	4	4	4	4	4	4
85.0	0	0	1	1	1	2	2	2	3	3
87.5	0	0	0	0	0	0	0	0	0	0
90.0	1	1	1	1	1	1	1	1	1	1

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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1482	1485	1488	1491	1494	1498	1501	1502	1503	1503
5.0	1381	1386	1391	1396	1402	1408	1415	1417	1419	1421
7.5	1233	1238	1244	1250	1257	1265	1274	1277	1280	1284
10.0	1055	1061	1066	1072	1079	1088	1098	1101	1106	1113
12.5	859	868	874	879	886	895	905	909	915	923
15.0	673	680	688	693	698	706	715	718	724	732
17.5	505	509	514	520	524	530	538	542	549	557
20.0	363	367	371	377	380	385	391	394	400	407
22.5	256	261	263	267	270	273	278	280	284	288
25.0	181	184	186	188	191	192	195	197	201	204
27.5	131	133	135	136	139	140	142	143	145	146
30.0	96	98	99	100	101	102	103	104	105	106
32.5	72	73	73	74	75	75	77	77	78	79
35.0	54	54	55	56	56	57	58	59	60	60
37.5	41	42	43	43	43	44	45	44	45	46
40.0	32	33	34	33	33	34	35	35	36	36
42.5	26	27	27	27	28	28	28	28	29	29
45.0	23	23	23	23	23	23	23	24	23	24
47.5	20	20	20	20	20	20	20	20	20	21
50.0	18	18	18	18	18	18	18	18	18	18
52.5	17	17	16	17	17	17	17	17	17	17
55.0	15	16	15	15	15	16	16	16	16	16
57.5	14	15	15	14	15	15	15	15	15	15
60.0	14	14	14	13	14	14	14	14	14	14
62.5	13	13	13	13	13	13	13	13	13	13
65.0	12	12	12	12	12	12	12	12	12	12
67.5	11	11	11	11	11	11	11	11	11	11
70.0	10	10	10	10	10	10	10	10	10	11
72.5	9	10	9	10	9	9	9	9	9	10
75.0	8	8	8	9	8	8	8	8	9	9
77.5	7	7	7	7	7	7	7	7	8	8
80.0	5	5	6	6	6	6	6	6	6	7
82.5	4	4	4	4	5	4	5	5	6	6
85.0	3	3	3	3	3	3	4	4	5	5
87.5	1	2	2	2	2	2	2	3	4	4
90.0	1	1	1	1	1	1	2	3	3	3

Vert. Angles **Horizontal 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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1504	1505	1506	1507	1509	1510	1511	1512	1513	1515

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CANDELA TABULATION - (Cont.)

5.0	1424	1427	1430	1434	1438	1442	1446	1451	1456	1456
7.5	1289	1295	1302	1309	1316	1318	1320	1324	1328	1333
10.0	1120	1129	1137	1140	1145	1151	1158	1166	1175	1178
12.5	932	940	945	951	959	969	975	979	985	993
15.0	740	745	752	761	769	773	780	788	795	799
17.5	562	568	576	582	586	593	600	603	612	612
20.0	412	419	425	429	434	437	439	441	445	450
22.5	292	298	302	306	310	312	314	317	321	324
25.0	207	210	213	216	217	219	219	223	227	230
27.5	149	150	153	154	156	156	157	160	161	161
30.0	107	109	110	112	111	111	113	114	115	115
32.5	80	81	81	81	81	82	83	83	83	84
35.0	61	61	61	61	60	61	62	61	62	62
37.5	46	47	47	46	47	47	47	47	47	47
40.0	36	36	37	37	37	37	36	36	36	36
42.5	29	29	30	29	29	30	30	30	29	29
45.0	24	24	24	24	25	25	25	25	24	24
47.5	21	21	21	21	21	21	21	22	21	21
50.0	19	19	19	19	19	19	19	19	19	19
52.5	17	17	17	17	18	18	18	18	17	17
55.0	16	16	16	16	16	16	16	16	16	17
57.5	15	15	15	16	15	15	15	15	15	16
60.0	14	14	14	15	14	15	15	14	14	14
62.5	13	13	13	14	14	14	14	14	14	14
65.0	13	12	13	13	13	13	13	13	13	13
67.5	12	12	12	12	12	12	12	12	12	12
70.0	11	11	11	12	12	11	11	11	11	11
72.5	10	11	10	10	10	10	10	10	10	10
75.0	9	10	9	10	9	9	9	9	9	9
77.5	8	8	9	8	8	8	8	8	8	8
80.0	8	7	7	7	7	7	7	7	7	7
82.5	6	6	6	6	6	6	6	6	6	6
85.0	5	5	5	5	5	5	5	5	5	5
87.5	4	4	4	4	4	4	3	4	4	4
90.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles **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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1516	1517	1519	1520	1522	1523	1524	1526	1527	1529
5.0	1457	1458	1460	1462	1464	1467	1470	1473	1477	1481
7.5	1338	1344	1351	1357	1360	1368	1366	1366	1368	1370
10.0	1182	1187	1193	1198	1203	1205	1212	1215	1219	1224
12.5	1001	1008	1010	1014	1018	1024	1030	1040	1039	1042
15.0	804	811	818	824	828	838	837	842	847	852
17.5	619	624	629	634	640	644	649	654	658	660
20.0	454	458	462	467	472	476	480	483	487	490
22.5	326	327	329	336	339	340	343	346	347	350
25.0	231	234	236	236	237	240	241	242	245	245
27.5	163	165	166	166	167	168	168	167	170	172
30.0	117	117	118	119	119	119	120	119	119	121
32.5	84	85	85	85	84	85	85	85	84	86
35.0	62	62	63	63	63	62	63	63	63	63
37.5	47	47	47	47	48	47	48	48	48	48
40.0	36	36	37	37	37	37	37	37	37	37

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CANDELA TABULATION - (Cont.)

42.5	29	29	29	29	30	29	29	29	29	29
45.0	24	24	24	24	25	24	24	24	24	24
47.5	21	21	21	21	21	21	21	21	21	21
50.0	19	19	19	19	19	19	19	19	19	19
52.5	17	17	17	17	17	17	18	18	17	17
55.0	16	16	16	16	16	16	16	17	16	16
57.5	16	16	15	15	15	15	15	15	15	15
60.0	14	14	14	14	15	14	14	14	14	15
62.5	14	13	14	14	14	13	14	13	14	14
65.0	13	13	13	13	12	13	13	13	13	13
67.5	12	12	12	12	12	12	12	12	12	12
70.0	11	11	11	11	11	11	11	11	11	11
72.5	10	10	10	10	10	10	10	10	10	10
75.0	9	10	9	9	9	9	9	9	9	9
77.5	8	9	9	8	8	8	8	8	8	8
80.0	7	7	7	7	7	7	7	7	7	8
82.5	6	6	6	6	6	6	6	6	7	7
85.0	5	5	5	5	5	5	5	6	5	5
87.5	4	4	4	3	3	3	4	4	4	4
90.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	Horizontal 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	1528	1528	1528	1528	1528	1528	1528	1528	1528	1528
2.5	1531	1532	1534	1535	1537	1538	1540	1542	1543	1544
5.0	1485	1486	1486	1487	1488	1490	1491	1493	1494	1497
7.5	1372	1376	1379	1384	1391	1390	1391	1392	1393	1393
10.0	1229	1230	1231	1233	1237	1241	1249	1248	1249	1246
12.5	1045	1049	1055	1058	1059	1061	1064	1069	1071	1073
15.0	856	857	859	862	870	867	868	871	878	877
17.5	663	667	670	671	673	676	676	677	680	683
20.0	493	495	498	501	500	501	504	502	502	505
22.5	351	353	355	357	360	359	360	360	359	360
25.0	246	244	249	251	252	254	253	253	253	252
27.5	172	172	173	175	176	177	178	177	177	177
30.0	121	121	121	123	124	124	125	124	124	123
32.5	87	87	86	87	88	88	88	88	88	87
35.0	63	64	64	64	64	64	64	65	64	64
37.5	48	48	48	48	48	48	49	49	49	49
40.0	37	37	37	37	37	38	38	38	38	38
42.5	29	30	29	30	30	30	30	30	30	30
45.0	24	25	25	24	24	24	25	25	25	24
47.5	21	21	21	21	21	21	21	21	21	21
50.0	19	19	19	19	19	19	19	19	19	19
52.5	17	17	17	17	17	18	17	17	17	17
55.0	16	16	16	16	16	17	16	16	16	16
57.5	15	15	15	15	15	15	15	15	15	15
60.0	14	14	14	14	15	14	14	14	14	14
62.5	13	13	13	14	14	13	13	14	14	14
65.0	12	12	13	13	13	13	13	13	13	13
67.5	12	12	12	12	12	12	12	12	12	12
70.0	11	11	11	11	11	11	11	11	11	12
72.5	10	10	11	11	10	10	10	11	11	11
75.0	9	10	10	9	9	9	10	10	10	10
77.5	9	9	8	9	9	9	9	9	9	9

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

80.0	8	7	7	7	8	8	8	8	8	8
82.5	6	6	6	6	7	7	7	7	7	7
85.0	5	5	5	5	6	6	6	6	6	6
87.5	4	4	4	4	4	4	4	5	5	5
90.0	3	3	3	3	3	3	3	3	3	3

Vert. Angles	Horizontal Angles		
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	1528	1528	1528
2.5	1545	1547	1548
5.0	1499	1502	1505
7.5	1397	1402	1406
10.0	1252	1257	1263
12.5	1073	1080	1088
15.0	875	883	891
17.5	679	686	693
20.0	500	506	512
22.5	356	362	367
25.0	250	254	258
27.5	174	177	179
30.0	121	123	125
32.5	85	86	87
35.0	64	63	64
37.5	48	48	49
40.0	38	38	38
42.5	30	30	30
45.0	24	24	25
47.5	21	21	21
50.0	19	19	19
52.5	17	17	17
55.0	16	16	16
57.5	15	15	15
60.0	14	15	15
62.5	14	14	14
65.0	13	13	13
67.5	12	12	12
70.0	12	12	12
72.5	11	11	11
75.0	10	10	10
77.5	9	9	10
80.0	8	8	9
82.5	7	7	7
85.0	6	6	6
87.5	5	5	5
90.0	3	3	3

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	319.70	N.A.	62.80
0-30	415.98	N.A.	81.70
0-40	452.65	N.A.	88.90
0-60	485.15	N.A.	95.20
0-80	505.71	N.A.	99.30
0-90	509.39	N.A.	100.00
10-90	385.26	N.A.	75.60
20-40	132.95	N.A.	26.10
20-50	151.30	N.A.	29.70
40-70	44.62	N.A.	8.80
60-80	20.56	N.A.	4.00
70-80	8.44	N.A.	1.70
80-90	3.68	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	509.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.13
10-20	195.57
20-30	96.28
30-40	36.67
40-50	18.35
50-60	14.15
60-70	12.12
70-80	8.44
80-90	3.68
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

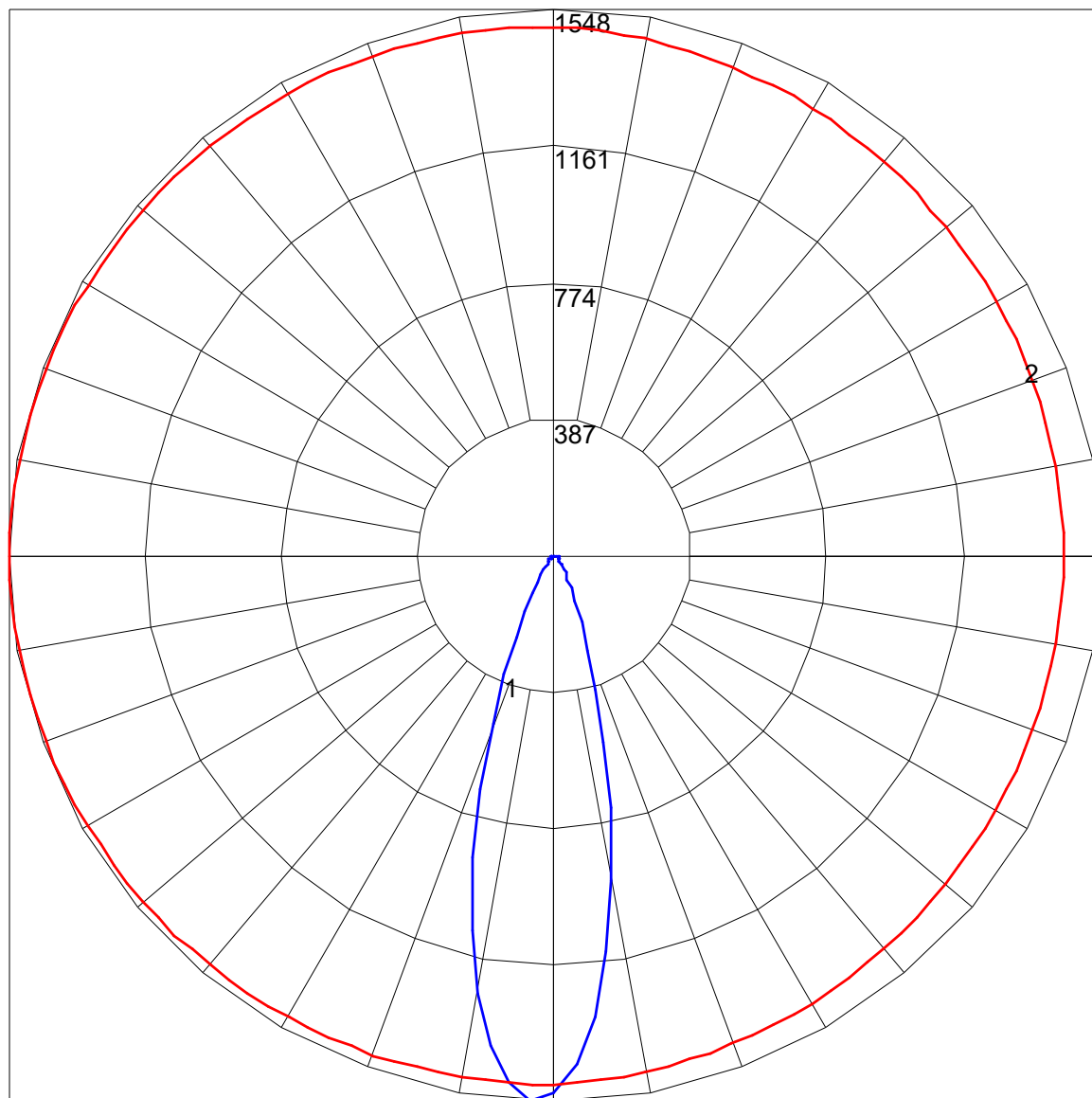
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	100
1	114	111	109	107	112	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	83
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79
5	96	88	83	79	94	87	83	79	86	81	78	84	80	77	83	79	77	75
6	92	84	79	75	91	84	79	75	82	78	74	81	77	74	79	76	73	72
7	89	81	75	72	88	80	75	72	79	74	71	78	74	71	77	73	70	69
8	86	77	72	69	85	77	72	68	76	71	68	75	71	68	74	70	68	66
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	67	63	71	66	63	70	66	63	69	66	63	62

POLAR GRAPH



Maximum Candela = 1548 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)