



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[ISSUE DATE] 12 March 2019

[TEST LAB] Spectra Lux Industries Inc.

[TEST] S1903123-R1

[LUMCAT] LEME 12-24V 07W BAWIC

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

[LAMP] Clusters of (5) HL-AT-2835D2W-2C-S1-08-PCT-HR3 LEDs c/w Integrated Driver @ 12.00V

[BURNING] Axial (653 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	656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	7.03
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	40415	36931	36931
55	21476	20617	18899
65	16322	15156	13991
75	7615	11422	11422
85	5653	0	11307

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	2127	2124	2122	2119	2116	2113	2110	2107	2104	2101
5.0	2029	2024	2020	2016	2012	2009	2007	2004	2002	2000
7.5	1815	1809	1805	1802	1800	1799	1799	1800	1804	1790
10.0	1530	1523	1519	1517	1516	1518	1524	1510	1502	1496
12.5	1228	1221	1217	1216	1217	1216	1207	1201	1197	1195
15.0	944	939	936	937	941	931	926	922	924	920
17.5	702	700	701	704	702	699	697	697	698	699
20.0	528	526	527	531	526	525	526	527	529	533
22.5	404	403	403	403	399	398	398	401	404	401
25.0	313	312	313	311	309	308	309	311	308	305
27.5	243	243	244	242	242	242	243	243	241	239
30.0	189	189	190	190	190	192	194	193	192	192
32.5	153	153	154	154	154	156	157	156	156	156
35.0	128	128	127	126	126	127	127	127	127	127
37.5	107	107	106	104	104	105	104	103	103	103
40.0	88	88	88	87	87	87	86	86	85	85
42.5	71	72	72	71	72	72	71	71	70	70
45.0	58	58	58	58	58	57	57	57	56	56
47.5	47	47	47	47	47	46	46	46	45	45
50.0	38	38	38	38	38	38	37	37	37	37
52.5	31	31	31	31	31	31	31	31	31	30
55.0	25	25	25	25	26	25	26	26	25	25
57.5	21	21	21	21	21	21	21	21	21	21
60.0	18	18	18	18	18	18	18	18	18	18
62.5	16	16	15	16	16	16	15	15	15	16
65.0	14	14	14	13	13	13	13	13	13	13
67.5	12	12	12	12	12	11	12	12	11	11
70.0	10	10	10	10	10	10	10	10	10	10
72.5	9	9	9	9	8	8	8	8	8	8
75.0	4	4	4	4	4	4	3	4	4	4
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	1
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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	2098	2095	2092	2089	2085	2082	2079	2076	2073	2070
5.0	1999	1998	1998	1989	1982	1974	1968	1962	1956	1952
7.5	1782	1774	1768	1763	1760	1758	1757	1761	1750	1753
10.0	1492	1490	1489	1485	1481	1478	1477	1474	1468	1463
12.5	1193	1191	1190	1189	1190	1196	1181	1173	1166	1159
15.0	920	921	923	917	910	905	900	899	891	887
17.5	702	698	692	687	684	682	679	674	671	665
20.0	528	524	519	518	517	514	511	509	505	501
22.5	398	395	394	393	391	389	386	384	384	382
25.0	302	299	300	300	298	295	295	295	294	293
27.5	238	237	237	235	233	231	231	230	229	229
30.0	191	191	190	189	188	187	186	184	183	182

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

CANDELA TABULATION - (Cont.)

32.5	156	156	155	154	153	152	151	149	148	147
35.0	127	127	127	126	125	124	123	122	121	120
37.5	103	103	103	103	103	102	101	100	99	99
40.0	85	85	85	85	84	84	84	83	82	82
42.5	69	69	69	68	68	67	67	67	67	67
45.0	56	56	56	55	55	54	53	53	53	53
47.5	45	45	45	44	44	44	43	43	43	42
50.0	37	37	36	36	36	36	36	36	35	35
52.5	30	30	30	29	30	30	30	30	29	29
55.0	25	25	25	25	25	25	25	25	24	25
57.5	21	21	21	21	21	21	21	20	20	20
60.0	18	18	18	18	18	18	18	17	17	17
62.5	15	15	15	15	16	15	15	15	15	15
65.0	13	13	13	13	13	13	13	13	13	13
67.5	11	11	11	11	12	11	12	11	11	11
70.0	10	10	9	10	10	10	9	10	9	9
72.5	8	8	8	8	8	8	8	8	8	8
75.0	5	6	7	7	7	6	7	7	6	7
77.5	2	2	3	4	4	5	5	6	6	5
80.0	1	1	1	2	2	3	3	4	4	4
82.5	1	0	0	1	1	1	1	1	1	2
85.0	0	1	0	0	0	0	0	0	0	0
87.5	1	1	1	1	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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	2068	2065	2062	2059	2056	2054	2051	2049	2047	2044
5.0	1948	1945	1942	1940	1939	1930	1921	1913	1906	1899
7.5	1738	1726	1716	1707	1699	1692	1686	1682	1681	1667
10.0	1455	1446	1438	1432	1429	1413	1400	1389	1379	1372
12.5	1154	1149	1141	1132	1124	1118	1113	1106	1093	1083
15.0	882	876	870	865	863	856	850	845	841	833
17.5	662	659	654	647	647	640	641	634	630	627
20.0	497	495	492	488	482	477	477	476	474	470
22.5	378	376	375	374	369	365	363	361	360	358
25.0	292	291	289	288	287	284	282	281	280	279
27.5	228	228	226	225	226	226	225	224	226	225
30.0	180	181	181	180	181	181	182	183	184	186
32.5	147	148	148	148	147	148	149	149	151	151
35.0	121	121	122	122	122	122	122	122	123	123
37.5	99	99	100	101	101	100	100	101	101	101
40.0	82	82	82	82	83	83	83	82	82	82
42.5	67	66	67	67	68	69	68	67	68	68
45.0	52	53	54	54	54	56	56	55	56	56
47.5	42	43	43	43	43	44	44	44	45	46
50.0	35	36	35	34	34	34	35	36	36	37
52.5	29	29	29	29	28	29	29	29	29	30
55.0	24	24	24	25	24	24	24	24	24	24
57.5	21	20	20	21	20	20	20	20	20	21
60.0	17	17	17	17	17	17	17	17	17	16
62.5	14	15	15	15	14	15	15	14	15	15
65.0	13	13	12	12	13	13	12	13	12	12
67.5	11	11	11	11	11	11	11	11	11	10

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

CANDELA TABULATION - (Cont.)

70.0	9	9	9	10	10	9	9	9	9	10
72.5	8	8	8	8	8	8	8	8	8	8
75.0	7	7	7	7	6	6	7	7	7	7
77.5	6	6	5	5	6	5	5	5	5	5
80.0	4	4	4	4	4	4	4	4	4	4
82.5	2	3	3	3	3	3	3	3	3	3
85.0	0	0	0	1	1	1	2	2	2	2
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. Horizontal Angles
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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	2042	2040	2038	2036	2034	2033	2031	2024	2017	2011
5.0	1892	1887	1882	1877	1874	1870	1868	1856	1845	1835
7.5	1653	1641	1630	1620	1612	1605	1600	1585	1571	1558
10.0	1367	1354	1340	1328	1319	1312	1308	1293	1280	1269
12.5	1074	1069	1059	1046	1036	1028	1024	1010	999	990
15.0	823	816	811	801	792	786	782	771	762	755
17.5	622	614	609	605	596	590	586	577	570	565
20.0	467	462	457	454	448	443	440	434	430	427
22.5	354	351	347	344	341	339	338	333	329	326
25.0	278	275	272	269	266	264	264	261	259	256
27.5	224	223	221	219	218	215	213	212	212	209
30.0	184	183	181	180	179	178	176	175	174	173
32.5	151	150	149	148	147	146	144	143	142	141
35.0	123	123	123	122	121	120	118	116	115	114
37.5	101	100	100	99	98	98	98	95	93	92
40.0	83	82	80	80	81	81	81	79	76	75
42.5	68	68	66	66	66	67	66	64	63	61
45.0	56	56	55	54	55	55	53	51	51	50
47.5	46	45	45	45	45	44	43	42	42	41
50.0	38	37	36	36	35	35	35	34	34	34
52.5	30	30	30	29	29	28	28	28	28	27
55.0	24	24	24	24	24	23	22	23	23	22
57.5	20	20	20	20	20	19	19	19	19	18
60.0	17	17	17	17	16	16	16	16	16	16
62.5	14	15	14	14	14	14	14	13	13	13
65.0	12	12	12	12	12	12	12	12	11	11
67.5	11	10	11	10	10	10	10	10	10	9
70.0	9	9	9	9	9	9	9	8	8	9
72.5	8	8	8	8	7	7	7	7	7	7
75.0	6	7	6	7	6	6	6	6	6	6
77.5	5	5	5	6	5	5	5	5	4	5
80.0	4	4	5	4	4	4	4	3	3	3
82.5	3	3	3	3	4	3	3	2	3	2
85.0	2	2	2	3	3	2	2	2	2	2
87.5	1	2	2	2	2	1	1	1	1	1
90.0	1	1	1	1	1	1	1	2	2	2

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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	2004	1998	1992	1986	1980	1975	1969	1964	1959	1955

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

CANDELA TABULATION - (Cont.)

5.0	1825	1815	1807	1799	1791	1785	1779	1773	1768	1757
7.5	1547	1538	1530	1524	1517	1505	1495	1486	1478	1472
10.0	1260	1253	1245	1233	1221	1212	1203	1196	1189	1179
12.5	984	976	966	958	952	946	938	929	922	915
15.0	750	741	734	728	722	714	707	700	694	686
17.5	558	552	548	542	536	531	525	520	518	510
20.0	422	418	413	408	403	398	394	389	387	385
22.5	323	321	318	315	311	308	303	301	300	297
25.0	254	252	250	249	247	245	242	240	239	237
27.5	208	205	203	201	200	198	196	196	195	193
30.0	172	169	167	165	164	164	162	161	160	158
32.5	140	139	137	136	135	134	133	132	130	130
35.0	114	113	113	112	110	109	110	109	108	107
37.5	92	92	92	91	91	90	90	89	88	87
40.0	75	75	75	73	73	73	73	72	72	71
42.5	61	61	60	59	58	58	58	58	57	57
45.0	50	50	49	48	47	46	47	47	47	47
47.5	41	41	39	38	38	38	38	38	38	38
50.0	33	32	31	31	31	31	31	31	31	31
52.5	27	26	26	26	26	26	26	26	25	26
55.0	22	21	21	21	21	22	22	21	21	22
57.5	18	18	18	18	18	18	18	18	18	19
60.0	15	15	15	15	15	15	15	15	15	15
62.5	13	13	13	13	13	12	13	13	13	13
65.0	11	11	11	11	11	11	11	11	11	10
67.5	10	9	10	9	9	9	9	9	10	10
70.0	8	8	8	8	8	8	8	8	8	8
72.5	7	7	6	6	7	6	7	7	7	7
75.0	5	5	5	5	5	5	5	5	5	5
77.5	4	4	4	4	4	4	4	4	4	4
80.0	4	3	3	3	3	3	3	3	3	3
82.5	2	2	2	2	2	2	2	2	2	2
85.0	1	1	1	1	1	1	1	1	1	1
87.5	1	1	1	1	1	1	0	1	1	1
90.0	2	2	2	2	2	2	2	2	2	2

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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	1950	1946	1942	1938	1935	1932	1929	1926	1924	1922
5.0	1747	1738	1730	1722	1715	1709	1704	1699	1695	1693
7.5	1466	1462	1459	1456	1451	1453	1439	1429	1419	1411
10.0	1171	1163	1155	1149	1143	1130	1135	1133	1131	1131
12.5	908	901	893	885	877	870	863	858	855	854
15.0	680	674	667	662	659	658	649	643	636	633
17.5	506	503	499	494	489	488	486	483	479	473
20.0	382	378	376	374	372	368	367	365	363	360
22.5	295	292	288	289	288	285	283	282	280	279
25.0	234	233	233	230	229	229	227	226	225	225
27.5	192	191	190	189	188	187	186	184	184	184
30.0	158	158	157	157	156	155	154	153	152	151
32.5	130	130	130	129	129	128	126	125	124	124
35.0	106	106	106	106	105	104	103	103	102	102
37.5	86	86	86	85	85	85	85	84	83	83
40.0	70	70	70	71	71	70	69	69	68	68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

CANDELA TABULATION - (Cont.)

42.5	57	57	58	57	57	57	56	56	56	56
45.0	46	47	47	46	45	46	46	46	46	45
47.5	38	38	37	37	37	38	38	38	37	36
50.0	31	31	31	31	30	31	31	31	31	30
52.5	26	26	25	25	26	26	25	26	25	25
55.0	22	21	21	21	21	21	21	22	21	21
57.5	18	17	18	17	17	18	18	18	18	18
60.0	15	15	15	15	15	15	15	15	15	15
62.5	12	12	12	13	13	13	13	13	13	13
65.0	11	11	11	11	11	11	11	11	11	11
67.5	9	9	9	9	9	9	10	9	10	10
70.0	8	8	8	8	8	8	8	8	8	8
72.5	7	6	7	7	7	6	7	7	6	7
75.0	5	6	5	6	5	6	6	5	5	6
77.5	4	4	4	4	4	4	4	4	4	4
80.0	3	3	3	3	3	3	3	3	3	4
82.5	2	2	2	2	2	2	2	2	3	3
85.0	1	1	1	1	1	2	1	2	1	1
87.5	1	1	1	0	0	0	0	1	1	1
90.0	2	2	2	2	2	2	2	2	2	2

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	2089	2089	2089	2089	2089	2089	2089	2089	2089	2089
2.5	1920	1919	1918	1917	1916	1916	1911	1913	1915	1917
5.0	1690	1684	1678	1672	1668	1665	1662	1661	1653	1657
7.5	1405	1399	1395	1392	1392	1384	1378	1373	1370	1362
10.0	1131	1121	1113	1106	1101	1098	1098	1090	1085	1072
12.5	855	856	858	855	847	841	837	834	830	827
15.0	631	632	633	635	640	631	625	620	618	613
17.5	470	468	467	468	469	470	466	461	457	454
20.0	356	355	353	353	353	354	356	351	348	346
22.5	277	276	276	276	277	277	278	278	276	275
25.0	225	223	225	225	224	224	225	226	224	223
27.5	184	184	184	185	184	183	183	183	183	181
30.0	151	151	151	152	153	152	151	151	151	149
32.5	124	124	125	126	125	125	124	123	123	123
35.0	102	102	102	101	102	102	101	100	100	100
37.5	83	83	83	83	82	82	81	81	81	81
40.0	68	69	69	68	67	67	66	66	65	65
42.5	56	56	55	55	55	54	54	53	53	53
45.0	45	44	44	43	44	43	43	43	42	43
47.5	36	35	35	35	36	36	36	35	34	35
50.0	30	29	29	29	29	30	30	30	29	29
52.5	25	25	25	25	25	25	25	25	25	24
55.0	21	21	21	21	21	21	21	21	21	20
57.5	18	18	18	18	18	18	18	18	18	18
60.0	15	15	15	15	15	16	16	16	15	16
62.5	13	13	13	14	13	14	14	13	13	14
65.0	11	11	11	11	11	12	12	12	12	12
67.5	9	10	10	10	10	10	10	10	10	10
70.0	8	9	9	8	8	9	9	9	9	9
72.5	7	7	7	7	7	7	7	7	7	8
75.0	6	6	6	5	6	6	6	6	6	6
77.5	5	5	4	4	4	5	5	5	5	5

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

CANDELA TABULATION - (Cont.)

80.0	4	3	3	3	3	4	4	4	4	4
82.5	2	2	2	2	2	3	3	3	3	3
85.0	1	1	2	2	2	2	2	2	2	2
87.5	1	1	1	1	1	1	1	1	2	2
90.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles	Horizontal Angles		
	175.0	177.5	180.0
0.0	2089	2089	2089
2.5	1920	1922	1924
5.0	1660	1664	1668
7.5	1366	1370	1374
10.0	1077	1081	1086
12.5	821	825	830
15.0	607	610	614
17.5	448	450	452
20.0	341	342	344
22.5	272	273	275
25.0	221	222	224
27.5	178	179	180
30.0	146	147	148
32.5	122	122	122
35.0	99	98	98
37.5	80	79	79
40.0	65	64	64
42.5	53	52	52
45.0	42	42	42
47.5	34	34	34
50.0	28	28	29
52.5	24	24	24
55.0	20	20	21
57.5	18	18	18
60.0	16	15	15
62.5	14	14	14
65.0	12	12	12
67.5	10	10	10
70.0	9	9	9
72.5	8	8	8
75.0	6	7	6
77.5	5	5	6
80.0	4	4	4
82.5	3	3	3
85.0	3	3	3
87.5	2	2	2
90.0	2	2	2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	376.34	N.A.	57.30
0-30	501.93	N.A.	76.50
0-40	575.12	N.A.	87.60
0-60	636.32	N.A.	97.00
0-80	654.55	N.A.	99.70
0-90	656.31	N.A.	100.00
10-90	497.84	N.A.	75.90
20-40	198.78	N.A.	30.30
20-50	238.89	N.A.	36.40
40-70	73.30	N.A.	11.20
60-80	18.23	N.A.	2.80
70-80	6.13	N.A.	0.90
80-90	1.76	N.A.	0.30
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	656.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.47
10-20	217.87
20-30	125.59
30-40	73.19
40-50	40.11
50-60	21.09
60-70	12.10
70-80	6.13
80-90	1.76
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

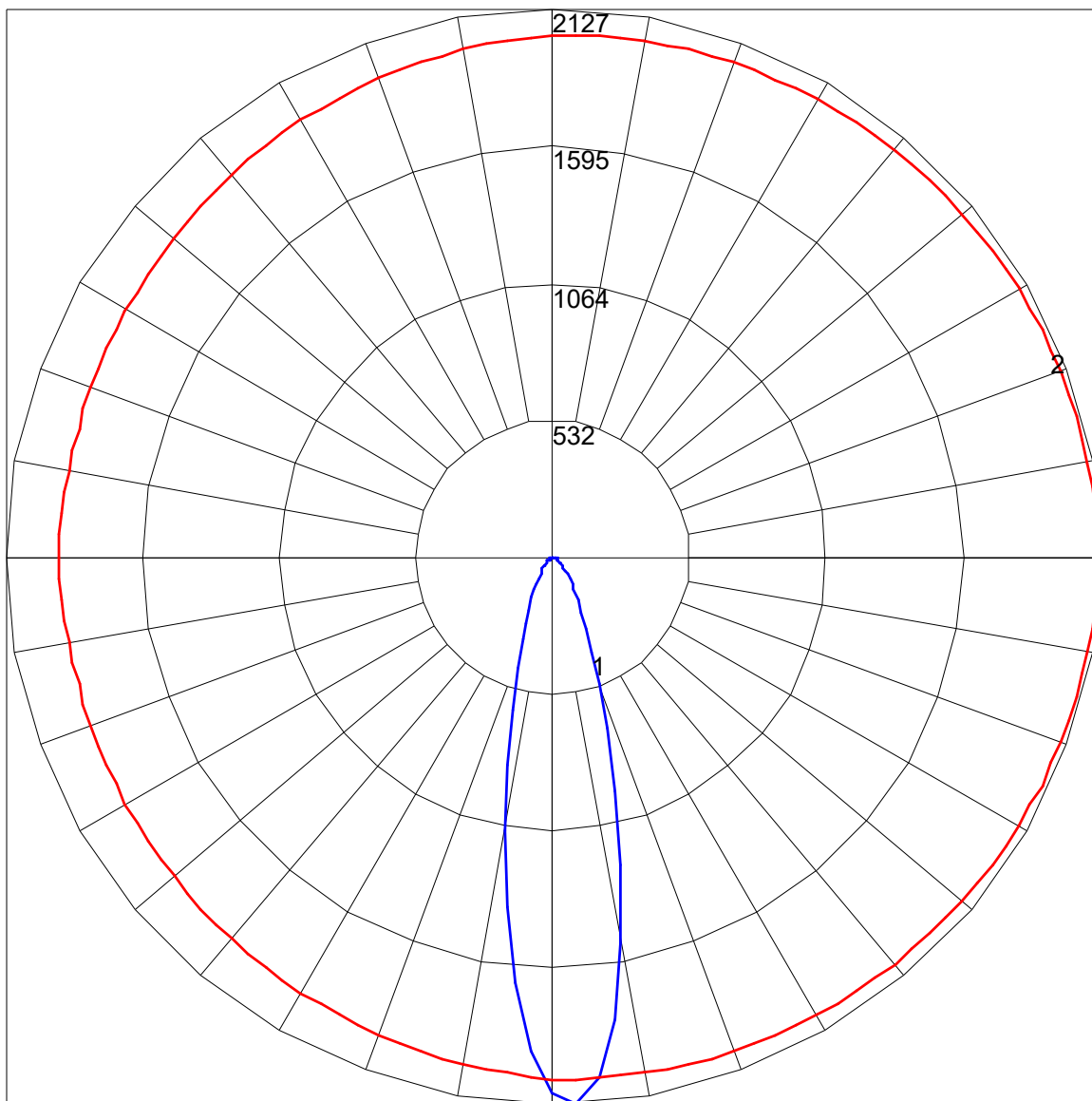
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MR16-12-24V07WLA-LED.IES

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
0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	114	112	109	107	112	110	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	87	92	89	86	89	87	85	83
4	100	93	87	83	98	91	87	83	89	85	82	87	84	81	85	83	80	79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	83	77	74	81	77	73	80	76	73	78	75	72	71
7	88	79	74	70	87	79	74	70	78	73	70	76	72	69	75	72	69	68
8	85	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	73	68	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62
10	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	60

POLAR GRAPH



Maximum Candela = 2127 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)