



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MR16_12V_50W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST]

[TESTLAB]

[TESTDATE] 2022-04-25

[ISSUE DATE] 10/10/2016

[MANUFAC] BeLuce Canada Inc.

[LAMP] MR16LED Lamp 12V 50W Standard 50893

[MORE] BeLuce REMOTE HEAD MR16

[MORE] LUMEN RATING = 750 LMS

[OTHER]

CHARACTERISTICS

Lumens Per Lamp	750 (1 lamp)
Total Lamp Lumens	750
Luminaire Lumens	263
Total Luminaire Efficiency	35 %
Luminaire Efficacy Rating (LER)	5
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.56
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	479.9
0.5	481.4
1.0	483.0
1.5	482.4
2.0	481.4
2.5	480.9
3.0	481.0
3.5	481.5
4.0	482.6
4.5	484.0
5.0	485.4
5.5	486.8
6.0	488.1
6.5	489.6
7.0	491.0
7.5	491.5
8.0	492.3
8.5	493.8
9.0	494.9
9.5	495.8
10.0	497.3
10.5	498.9
11.0	499.7
11.5	499.5
12.0	498.5
12.5	495.7
13.0	491.5
13.5	485.6
14.0	477.8
14.5	466.9
15.0	451.9
15.5	433.7
16.0	413.1
16.5	390.5
17.0	365.1
17.5	334.7
18.0	301.4
18.5	268.1
19.0	238.0
19.5	211.5
20.0	187.0
20.5	165.0
21.0	145.6
21.5	127.0
22.0	110.3
22.5	96.5
23.0	84.7
23.5	74.7
24.0	66.5
24.5	60.1
25.0	54.9
25.5	50.6
26.0	47.4
26.5	45.0

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CANDELA TABULATION - (Cont.)

27.0	43.0
27.5	41.1
28.0	39.7
28.5	38.3
29.0	37.2
29.5	36.6
30.0	36.0
30.5	35.7
31.0	35.4
31.5	35.2
32.0	34.8
32.5	34.4
33.0	34.2
33.5	34.1
34.0	33.8
34.5	33.7
35.0	33.4
35.5	33.2
36.0	33.0
36.5	32.8
37.0	32.6
37.5	32.2
38.0	31.9
38.5	31.8
39.0	31.6
39.5	31.2
40.0	30.9
40.5	30.6
41.0	30.2
41.5	29.9
42.0	29.6
42.5	29.4
43.0	29.2
43.5	29.0
44.0	28.7
44.5	28.6
45.0	28.4
45.5	28.2
46.0	28.2
46.5	28.1
47.0	28.0
47.5	27.9
48.0	27.9
48.5	27.6
49.0	27.1
49.5	26.6
50.0	26.2
50.5	25.8
51.0	25.2
51.5	24.6
52.0	23.8
52.5	22.9
53.0	21.8
53.5	20.8
54.0	19.7
54.5	18.6

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CANDELA TABULATION - (Cont.)

55.0	17.4
55.5	16.2
56.0	15.0
56.5	13.9
57.0	12.7
57.5	11.5
58.0	10.4
58.5	9.4
59.0	8.4
59.5	7.6
60.0	6.9
60.5	6.2
61.0	5.7
61.5	5.6
62.0	5.5
62.5	5.5
63.0	5.6
63.5	5.6
64.0	5.5
64.5	5.5
65.0	5.5
65.5	5.5
66.0	5.5
66.5	5.4
67.0	5.4
67.5	5.4
68.0	5.5
68.5	5.5
69.0	5.5
69.5	5.5
70.0	5.5
70.5	5.5
71.0	5.5
71.5	5.4
72.0	5.3
72.5	5.2
73.0	5.1
73.5	5.1
74.0	5.0
74.5	4.9
75.0	4.8
75.5	4.6
76.0	4.5
76.5	4.5
77.0	4.5
77.5	4.5
78.0	4.5
78.5	4.4
79.0	4.4
79.5	4.3
80.0	4.3
80.5	4.2
81.0	4.2
81.5	4.2
82.0	4.2
82.5	4.2

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CANDELA TABULATION - (Cont.)

83.0	4.2
83.5	4.2
84.0	4.1
84.5	4.0
85.0	4.0
85.5	4.0
86.0	3.9
86.5	3.9
87.0	3.8
87.5	3.8
88.0	3.8
88.5	3.8
89.0	3.8
89.5	3.8
90.0	3.8

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	157.52	21.00	59.90
0-30	189.78	25.30	72.20
0-40	210.71	28.10	80.10
0-60	247.97	33.10	94.30
0-80	258.62	34.50	98.30
0-90	262.99	35.10	100.00
10-90	216.25	28.80	82.20
20-40	53.19	7.10	20.20
20-50	75.28	10.00	28.60
40-70	42.79	5.70	16.30
60-80	10.65	1.40	4.00
70-80	5.12	0.70	1.90
80-90	4.37	0.60	1.70
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	262.99	35.10	100.00

Total Luminaire Efficiency = 35.10%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.75
10-20	110.78
20-30	32.25
30-40	20.93
40-50	22.10
50-60	15.16
60-70	5.54
70-80	5.12
80-90	4.37
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

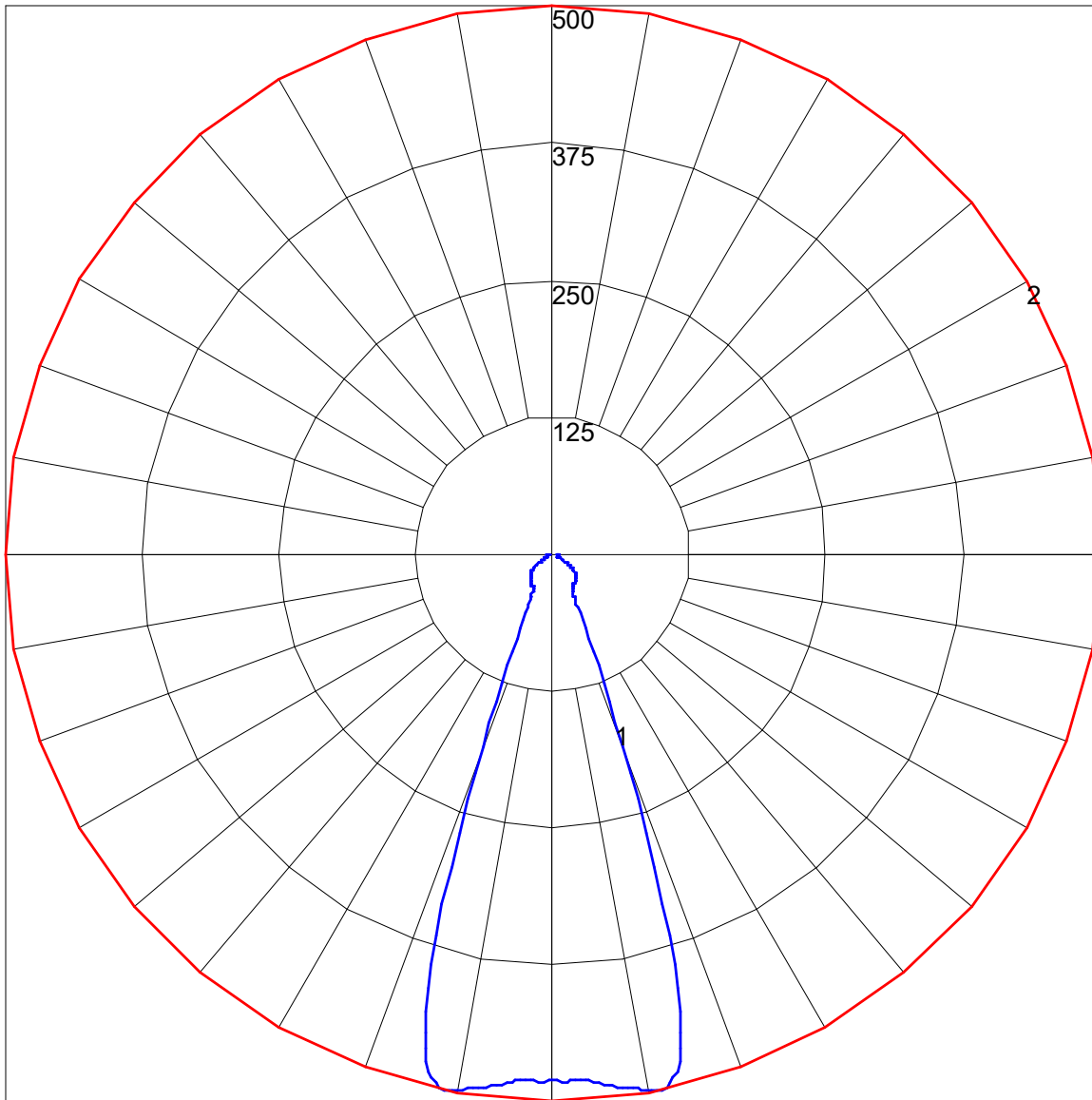
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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
0	42	42	42	42	41	41	41	41	39	39	39	37	37	37	36	36	36	35
1	39	38	37	37	39	38	37	36	36	35	35	35	34	34	34	33	33	32
2	37	36	34	33	37	35	34	32	34	33	32	33	32	31	32	31	30	30
3	36	33	31	30	35	33	31	30	32	30	29	31	30	29	30	29	28	28
4	34	31	29	28	33	31	29	28	30	28	27	29	28	27	29	28	27	26
5	32	29	27	26	32	29	27	26	28	27	26	28	26	25	27	26	25	25
6	31	28	26	24	30	28	26	24	27	25	24	27	25	24	26	25	24	23
7	30	27	24	23	29	26	24	23	26	24	23	25	24	23	25	24	23	22
8	28	25	23	22	28	25	23	22	25	23	22	24	23	22	24	23	22	21
9	27	24	22	21	27	24	22	21	24	22	21	23	22	21	23	22	21	20
10	26	23	21	20	26	23	21	20	23	21	20	23	21	20	22	21	20	19

POLAR GRAPH



Maximum Candela = 499.7 Located At Horizontal Angle = 0, Vertical Angle = 11
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (11) (Through Max. Cd.)