



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MR16LED\_6V\_7W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[ISSUEDATE] 1/29/2021

[MANUFAC] BeLuce Canada Inc.

[LAMP] MR16LED Lamp 6V 7W

[MORE] BeLuce REMOTE HEAD CAT

[MORE] LUMEN RATING = 687.53 LMS

[OTHER] EVERFINE GO-2000A\_V1 SYSTEM

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	85.89	85.89	12.49	12.49
[OTHER]	10- 20	180.97	266.86	38.81	38.81
[OTHER]	20- 30	159.56	426.42	62.02	62.02
[OTHER]	30- 40	116.94	543.36	79.03	79.03
[OTHER]	40- 50	67.95	611.31	88.91	88.91
[OTHER]	50- 60	35.43	646.74	94.07	94.07
[OTHER]	60- 70	21.68	668.42	97.22	97.22
[OTHER]	70- 80	11.46	679.88	98.89	98.89
[OTHER]	80- 90	3.04	682.92	99.33	99.33
[OTHER]	90-100	0.05	682.96	99.34	99.34
[OTHER]	100-110	0.01	682.97	99.34	99.34
[OTHER]	110-120	0.13	683.10	99.36	99.36
[OTHER]	120-130	0.41	683.50	99.41	99.41
[OTHER]	130-140	0.79	684.29	99.53	99.53
[OTHER]	140-150	1.09	685.38	99.69	99.69
[OTHER]	150-160	1.10	686.48	99.85	99.85
[OTHER]	160-170	0.78	687.25	99.96	99.96
[OTHER]	170-180	0.28	687.53	100.00	100.00
[OTHER]					

### CHARACTERISTICS

Lumens Per Lamp	687.53 (1 lamp)
Total Lamp Lumens	687.53
Luminaire Lumens	694
Total Luminaire Efficiency	101 %
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	6.92231
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.16 m
Luminous Width (90-270)	0.21 m
Luminous Height	0.00 m

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2856	3161	2307
55	1588	1708	1539
65	1340	1431	1409
75	992	945	1011
85	730	512	474

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**CANDELA TABULATION**

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
<b>0</b>	942.77	942.77	942.77	942.77	942.77	942.77	942.77	942.77	942.77	942.77
<b>5</b>	921.75	911.48	901.67	947.91	938.19	928.02	938.76	942.00	925.36	935.75
<b>10</b>	858.37	799.14	750.34	789.59	775.52	796.73	842.47	894.29	896.42	893.60
<b>15</b>	695.74	602.74	541.40	569.27	542.90	573.79	643.92	725.73	751.00	766.89
<b>20</b>	497.03	413.11	369.78	386.03	381.54	391.65	452.09	509.29	554.95	575.94
<b>25</b>	357.33	303.88	275.77	278.83	281.67	297.34	333.18	357.96	405.08	412.88
<b>30</b>	257.33	237.01	211.19	201.66	193.54	208.92	258.91	276.31	307.47	315.50
<b>35</b>	176.26	172.66	161.01	135.60	123.16	150.20	198.23	203.25	215.88	234.34
<b>40</b>	116.44	118.77	111.27	87.28	71.74	105.59	145.78	149.42	141.99	170.50
<b>45</b>	67.88	78.18	72.10	54.84	44.99	68.73	98.49	105.14	84.71	122.11
<b>50</b>	42.48	50.18	46.26	37.28	38.24	45.63	64.65	64.50	50.17	78.41
<b>55</b>	30.61	33.81	32.07	29.68	27.77	33.30	42.91	42.94	34.69	48.35
<b>60</b>	24.61	26.31	26.02	25.34	22.36	26.36	30.12	30.65	26.55	32.84
<b>65</b>	19.03	19.97	20.68	20.01	17.53	20.37	23.13	23.41	21.60	23.79
<b>70</b>	13.58	13.83	13.82	14.24	13.41	15.52	17.63	17.67	17.70	18.71
<b>75</b>	8.63	8.43	8.02	8.80	9.16	10.56	11.51	12.57	12.68	13.58
<b>80</b>	4.98	4.24	3.97	4.19	5.26	5.82	6.73	8.03	7.96	8.07
<b>85</b>	2.14	1.62	1.38	1.39	1.42	1.70	2.53	3.81	3.72	3.87
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.90	1.24	1.28
<b>95</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110</b>	0.08	0.08	0.11	0.08	0.04	0.05	0.00	0.00	0.00	0.00
<b>115</b>	0.20	0.17	0.23	0.22	0.17	0.18	0.03	0.08	0.06	0.09
<b>120</b>	0.35	0.31	0.42	0.38	0.31	0.33	0.16	0.19	0.08	0.14
<b>125</b>	0.54	0.54	0.68	0.59	0.57	0.54	0.34	0.35	0.22	0.32
<b>130</b>	0.79	0.82	0.97	0.87	0.80	0.80	0.58	0.56	0.42	0.55
<b>135</b>	1.11	1.16	1.36	1.22	1.13	1.11	0.90	0.84	0.69	0.86
<b>140</b>	1.48	1.55	1.76	1.59	1.49	1.46	1.22	1.16	1.03	1.25
<b>145</b>	1.82	1.92	2.13	1.97	1.84	1.82	1.55	1.52	1.35	1.67
<b>150</b>	2.15	2.26	2.47	2.33	2.18	2.15	1.89	1.86	1.70	2.07
<b>155</b>	2.41	2.54	2.71	2.63	2.52	2.42	2.17	2.18	2.05	2.41
<b>160</b>	2.63	2.67	2.87	2.84	2.65	2.64	2.39	2.45	2.31	2.68
<b>165</b>	2.80	2.77	2.89	2.98	2.78	2.77	2.54	2.62	2.52	2.90
<b>170</b>	2.87	2.79	2.89	3.07	2.84	2.84	2.65	2.73	2.64	3.00
<b>175</b>	2.90	2.83	2.90	3.14	3.00	2.94	2.75	2.82	2.73	3.07
<b>180</b>	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92

**Vert. Angles**      **Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
<b>0</b>	942.77	942.77	942.77
<b>5</b>	916.60	919.84	921.75
<b>10</b>	888.02	880.99	858.37
<b>15</b>	747.09	751.25	695.74
<b>20</b>	589.32	557.85	497.03
<b>25</b>	423.20	409.00	357.33
<b>30</b>	320.93	294.88	257.33
<b>35</b>	256.02	213.66	176.26
<b>40</b>	198.07	145.68	116.44
<b>45</b>	145.80	95.54	67.88
<b>50</b>	97.76	61.85	42.48
<b>55</b>	63.49	41.31	30.61
<b>60</b>	41.42	29.92	24.61

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	28.06	22.84	19.03
<b>70</b>	19.89	16.57	13.58
<b>75</b>	13.95	10.71	8.63
<b>80</b>	7.96	6.39	4.98
<b>85</b>	3.97	3.14	2.14
<b>90</b>	1.28	0.73	0.00
<b>95</b>	0.00	0.00	0.00
<b>100</b>	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00
<b>110</b>	0.00	0.00	0.08
<b>115</b>	0.08	0.07	0.20
<b>120</b>	0.20	0.18	0.35
<b>125</b>	0.37	0.34	0.54
<b>130</b>	0.61	0.60	0.79
<b>135</b>	0.92	0.92	1.11
<b>140</b>	1.30	1.32	1.48
<b>145</b>	1.71	1.65	1.82
<b>150</b>	2.11	2.02	2.15
<b>155</b>	2.46	2.32	2.41
<b>160</b>	2.72	2.56	2.63
<b>165</b>	2.91	2.74	2.80
<b>170</b>	3.01	2.82	2.87
<b>175</b>	3.03	2.89	2.90
<b>180</b>	2.92	2.92	2.92

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	267.74	38.90	38.60
0-30	429.66	62.50	61.90
0-40	547.86	79.70	78.90
0-60	652.99	95.00	94.10
0-80	686.27	99.80	98.90
0-90	689.45	100.30	99.30
10-90	603.92	87.80	87.00
20-40	280.13	40.70	40.40
20-50	349.15	50.80	50.30
40-70	126.90	18.50	18.30
60-80	33.28	4.80	4.80
70-80	11.50	1.70	1.70
80-90	3.19	0.50	0.50
90-110	0.13	0.00	0.00
90-120	0.27	0.00	0.00
90-130	0.68	0.10	0.10
90-150	2.56	0.40	0.40
90-180	4.71	0.70	0.70
110-180	4.58	0.70	0.70
0-180	694.16	101.00	100.00

Total Luminaire Efficiency = 101.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	85.53
10-20	182.20
20-30	161.92
30-40	118.20
40-50	69.03
50-60	36.10
60-70	21.77
70-80	11.50
80-90	3.19
90-100	0.12
100-110	0.01
110-120	0.14
120-130	0.41
130-140	0.79
140-150	1.09
150-160	1.10
160-170	0.78
170-180	0.28

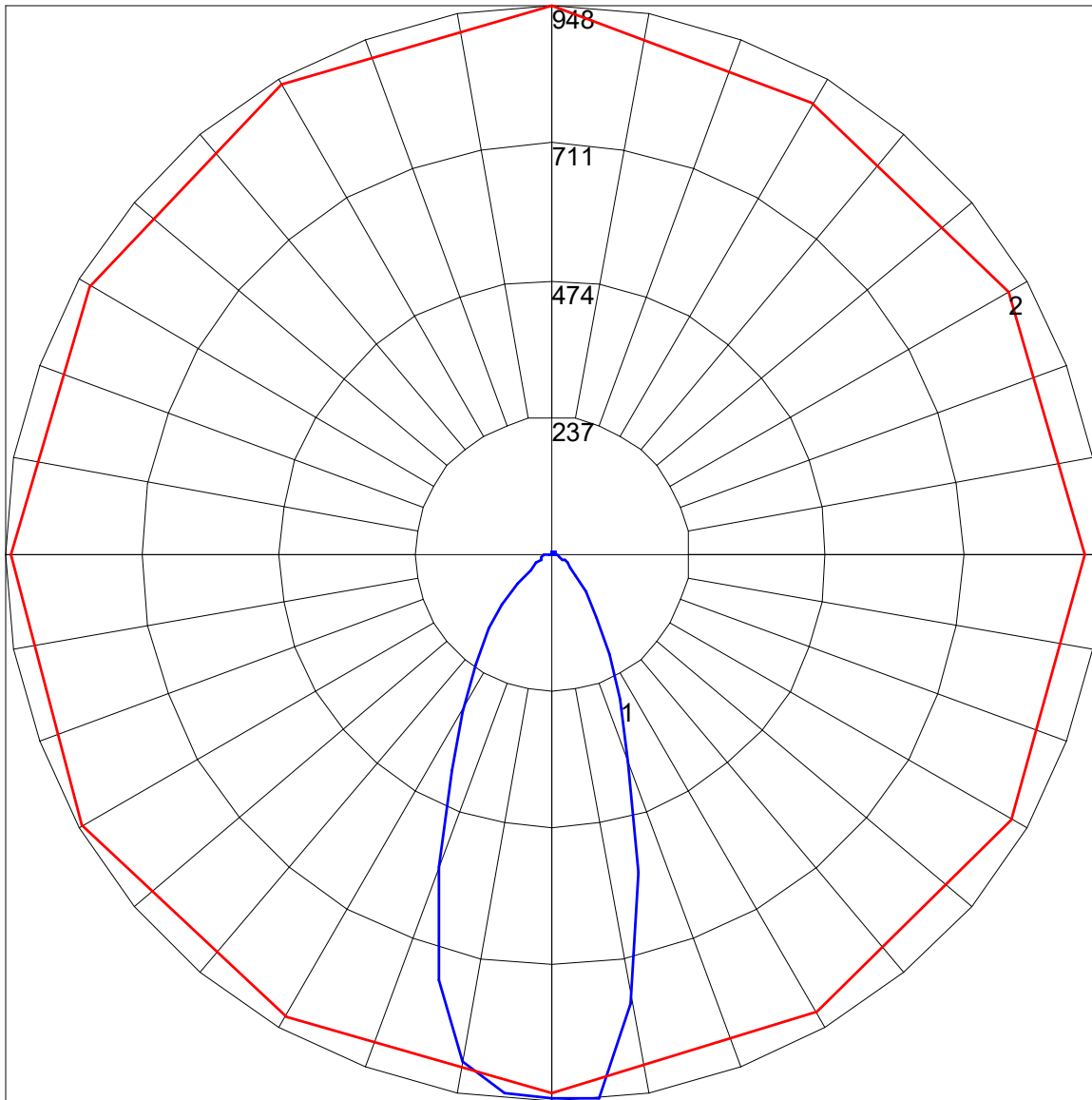
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	105	99	95	92	96	93	90	93	90	87	90	88	86	84
3	101	93	88	83	99	92	87	83	89	85	81	87	83	80	84	81	78	77
4	95	87	80	76	93	85	80	75	83	78	74	81	77	73	79	75	72	71
5	90	81	74	69	88	80	74	69	78	72	68	76	71	68	74	70	67	65
6	85	75	69	64	84	75	68	64	73	67	63	71	67	63	70	66	62	61
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57
8	77	67	60	56	76	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	70	60	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47

POLAR GRAPH



Maximum Candela = 947.91 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)