



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MR16_12V_50W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST]

[TESTLAB]

[TESTDATE] 2022-04-25

[ISSUEDATE] 10/10/2016

[MANUFAC] BeLuce Canada Inc.

[LAMP] MR16 Incandescent 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 |

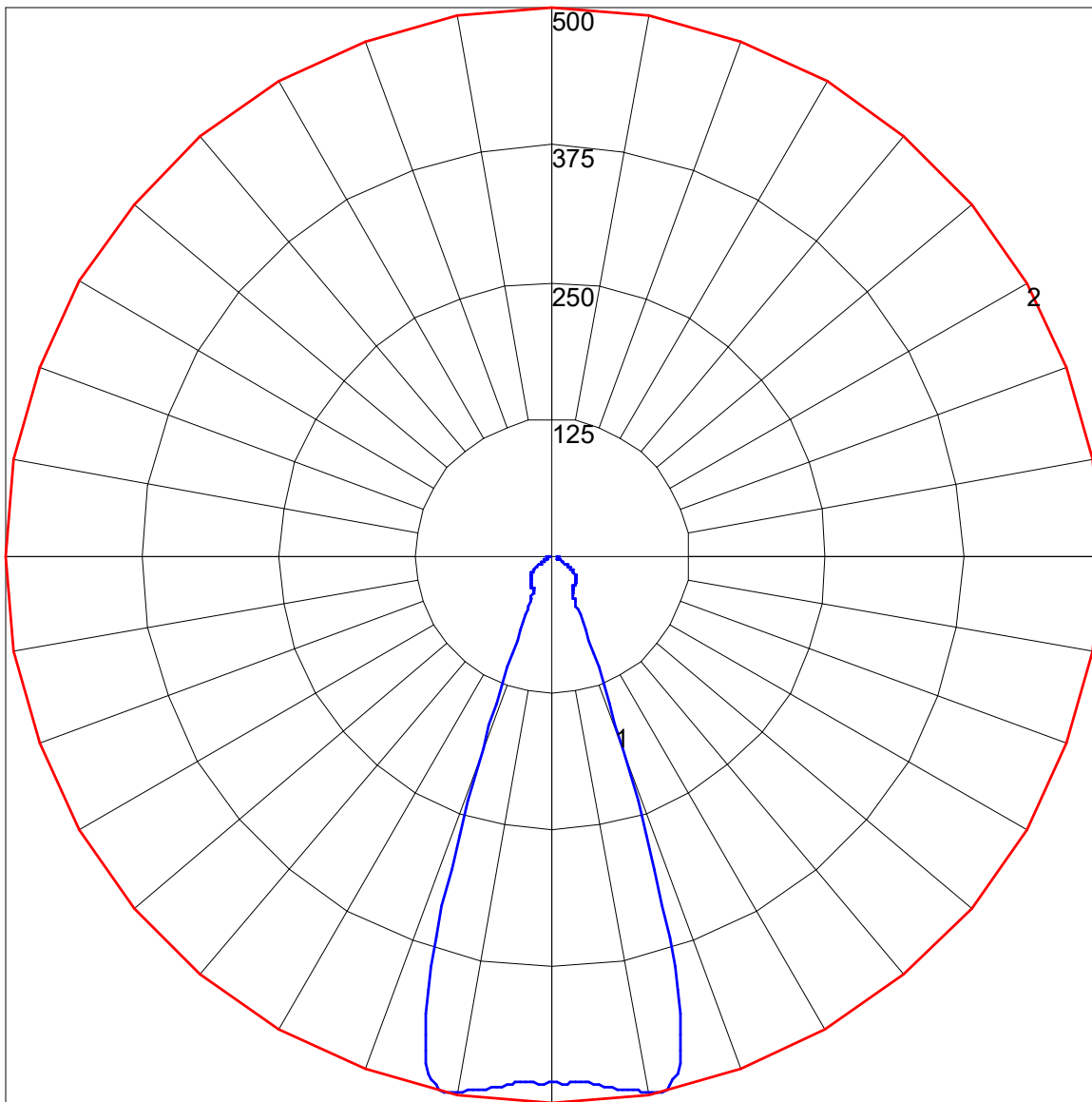
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 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 | 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.)