



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SR_6-12V_3W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LSCG190
 [TESTLAB] Lighting Sciences Canada Ltd.
 [MORE] 160 Frobisher Drive, Unit 5
 [MORE] Waterloo, Ontario
 [ISSUEDATE] 10-12-2012
 [LUMCAT] SR (PAR18) HEAD
 [LUMINAIRE] SR (PAR18)-12V-3W-LED
 [MORE] WITH LED LENS OPTICS
 [LAMP] THREE WHITE LEDS. LUMEN OUTPUT = 313 LMS.
 [MANUFAC] BeLuce Canada Inc.
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor, Emergency
 [SEARCH_MOUNTING] Ceiling, Wall
 [SEARCH_CERTIFICATION] CSA

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 313 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 106 |
| Total Luminaire Watts | 2.944 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.34 |
| Spacing Criterion (90-270) | 0.34 |
| Spacing Criterion (Diagonal) | 0.36 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.20 ft (Diameter) |
| Luminous Width (90-270) | 0.20 ft (Diameter) |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3811 | 3811 | 3811 |
| 55 | 2349 | 2349 | 2349 |
| 65 | 1063 | 1063 | 1063 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1796.202 |
| 2.5 | 1696.486 |
| 5.0 | 1485.245 |
| 7.5 | 1169.040 |
| 10.0 | 854.147 |
| 12.5 | 595.673 |
| 15.0 | 408.049 |
| 17.5 | 282.748 |
| 20.0 | 196.808 |
| 22.5 | 138.422 |
| 25.0 | 94.468 |
| 27.5 | 64.947 |
| 30.0 | 44.610 |
| 32.5 | 30.833 |
| 35.0 | 22.305 |
| 37.5 | 15.745 |
| 40.0 | 11.808 |
| 42.5 | 9.840 |
| 45.0 | 7.872 |
| 47.5 | 5.904 |
| 50.0 | 5.248 |
| 52.5 | 4.592 |
| 55.0 | 3.936 |
| 57.5 | 2.624 |
| 60.0 | 2.624 |
| 62.5 | 2.624 |
| 65.0 | 1.312 |
| 67.5 | 1.312 |
| 70.0 | 1.312 |
| 72.5 | 0.656 |
| 75.0 | 0.000 |
| 77.5 | 0.000 |
| 80.0 | 0.000 |
| 82.5 | 0.000 |
| 85.0 | 0.000 |
| 87.5 | 0.000 |
| 90.0 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 239.85 | N.A. | 76.70 |
| 0-30 | 286.25 | N.A. | 91.50 |
| 0-40 | 301.11 | N.A. | 96.30 |
| 0-60 | 310.61 | N.A. | 99.30 |
| 0-80 | 312.73 | N.A. | 100.00 |
| 0-90 | 312.73 | N.A. | 100.00 |
| 10-90 | 191.98 | N.A. | 61.40 |
| 20-40 | 61.26 | N.A. | 19.60 |
| 20-50 | 67.40 | N.A. | 21.60 |
| 40-70 | 11.28 | N.A. | 3.60 |
| 60-80 | 2.12 | N.A. | 0.70 |
| 70-80 | 0.34 | N.A. | 0.10 |
| 80-90 | 0.00 | N.A. | 0.00 |
| 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 | 312.73 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 120.76 |
| 10-20 | 119.09 |
| 20-30 | 46.40 |
| 30-40 | 14.86 |
| 40-50 | 6.15 |
| 50-60 | 3.36 |
| 60-70 | 1.78 |
| 70-80 | 0.34 |
| 80-90 | 0.00 |
| 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 |

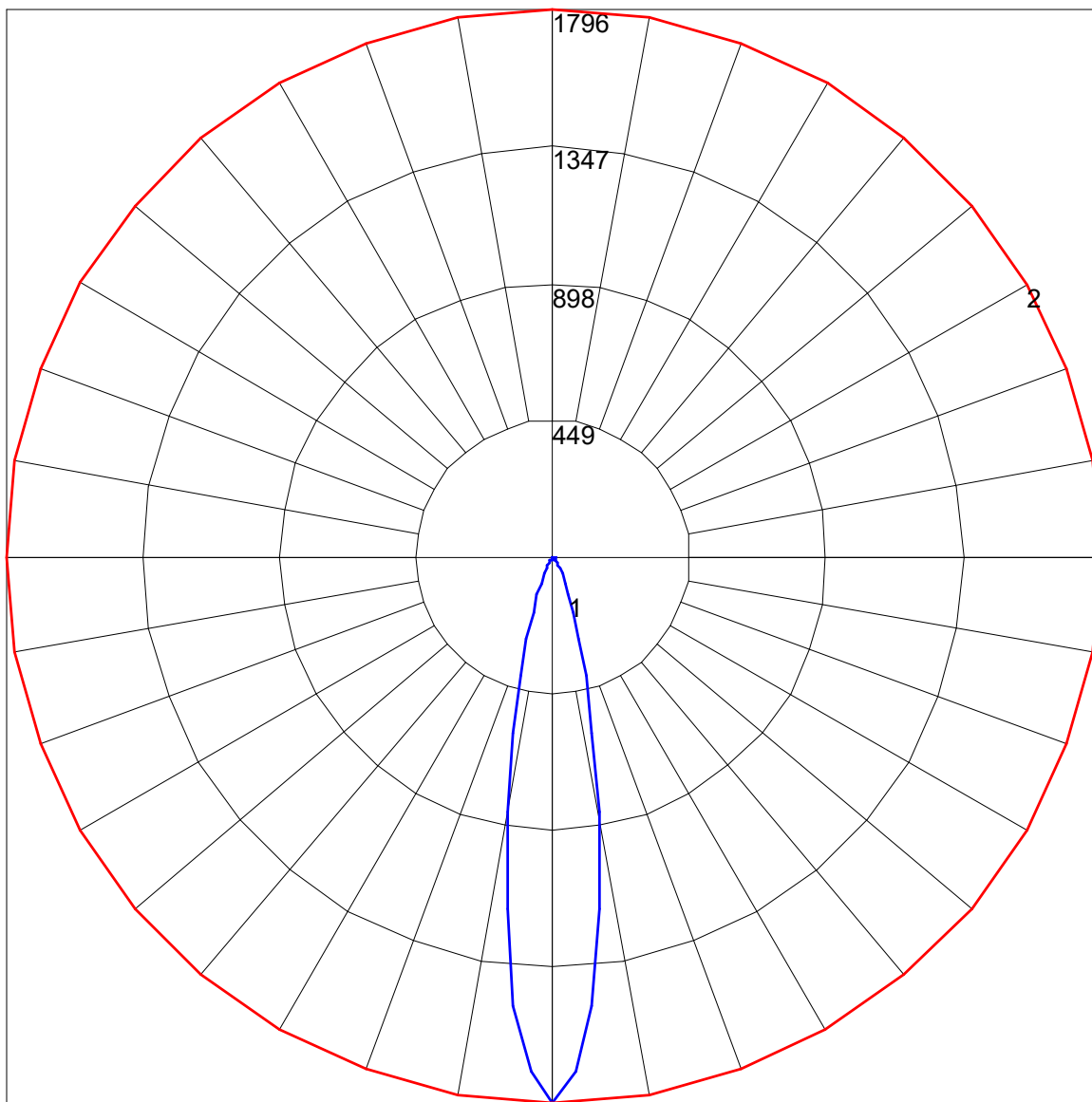
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 109 | 112 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 100 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 95 | 94 | 93 |
| 3 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 91 | 89 |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 92 | 89 | 88 | 86 |
| 5 | 101 | 95 | 90 | 87 | 99 | 94 | 90 | 87 | 92 | 89 | 86 | 91 | 88 | 85 | 89 | 87 | 85 | 84 |
| 6 | 98 | 91 | 87 | 84 | 96 | 91 | 87 | 84 | 89 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 |
| 7 | 95 | 88 | 84 | 81 | 94 | 88 | 84 | 81 | 87 | 83 | 81 | 86 | 82 | 80 | 85 | 82 | 80 | 79 |
| 8 | 92 | 86 | 81 | 79 | 91 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 83 | 80 | 78 | 77 |
| 9 | 90 | 83 | 79 | 76 | 89 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 76 | 81 | 78 | 75 | 75 |
| 10 | 88 | 81 | 77 | 74 | 87 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 74 | 79 | 76 | 74 | 73 |

POLAR GRAPH



Maximum Candela = 1796.202 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)