



8165 E. Kaiser Blvd. Anaheim, CA 92808
 www.lightlaboratory.com

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L021800602.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021800602
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 2/7/2018
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSS420-T1-44-35-R-F1
 [LUMINAIRE] 2" aperture recessed LED luminaire w/flush lens
 [BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 29.12W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2164 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 74 |
| Total Luminaire Watts | 29.12 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.14 |
| Spacing Criterion (90-270) | 1.06 |
| Spacing Criterion (Diagonal) | 1.18 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.75 ft |
| Luminous Width (90-270) | 0.17 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 12334 | 11403 | 10473 |
| 55 | 10529 | 9646 | 8735 |
| 65 | 9101 | 8302 | 7504 |
| 75 | 7495 | 7039 | 6387 |
| 85 | 5613 | 6194 | 5806 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1025 | 1025 | 1025 | 1025 | 1025 |
| 5 | 1014 | 1013 | 1014 | 1011 | 1013 |
| 10 | 989 | 987 | 985 | 980 | 981 |
| 15 | 950 | 946 | 940 | 931 | 929 |
| 20 | 899 | 893 | 882 | 868 | 861 |
| 25 | 835 | 828 | 811 | 791 | 781 |
| 30 | 764 | 756 | 733 | 708 | 697 |
| 35 | 686 | 676 | 649 | 622 | 610 |
| 40 | 602 | 592 | 563 | 535 | 523 |
| 45 | 517 | 508 | 478 | 451 | 439 |
| 50 | 435 | 427 | 399 | 374 | 364 |
| 55 | 358 | 352 | 328 | 306 | 297 |
| 60 | 294 | 289 | 269 | 250 | 243 |
| 65 | 228 | 225 | 208 | 195 | 188 |
| 70 | 168 | 166 | 156 | 145 | 140 |
| 75 | 115 | 115 | 108 | 101 | 98 |
| 80 | 69 | 71 | 67 | 63 | 61 |
| 85 | 29 | 34 | 32 | 31 | 30 |
| 90 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 359.88 | N.A. | 16.60 |
| 0-30 | 732.22 | N.A. | 33.80 |
| 0-40 | 1137.72 | N.A. | 52.60 |
| 0-60 | 1804.63 | N.A. | 83.40 |
| 0-80 | 2128.39 | N.A. | 98.40 |
| 0-90 | 2163.71 | N.A. | 100.00 |
| 10-90 | 2067.91 | N.A. | 95.60 |
| 20-40 | 777.84 | N.A. | 35.90 |
| 20-50 | 1148.29 | N.A. | 53.10 |
| 40-70 | 875.37 | N.A. | 40.50 |
| 60-80 | 323.77 | N.A. | 15.00 |
| 70-80 | 115.30 | N.A. | 5.30 |
| 80-90 | 35.32 | N.A. | 1.60 |
| 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 | 2163.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 95.81 |
| 10-20 | 264.08 |
| 20-30 | 372.34 |
| 30-40 | 405.50 |
| 40-50 | 370.45 |
| 50-60 | 296.46 |
| 60-70 | 208.46 |
| 70-80 | 115.30 |
| 80-90 | 35.32 |
| 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 |

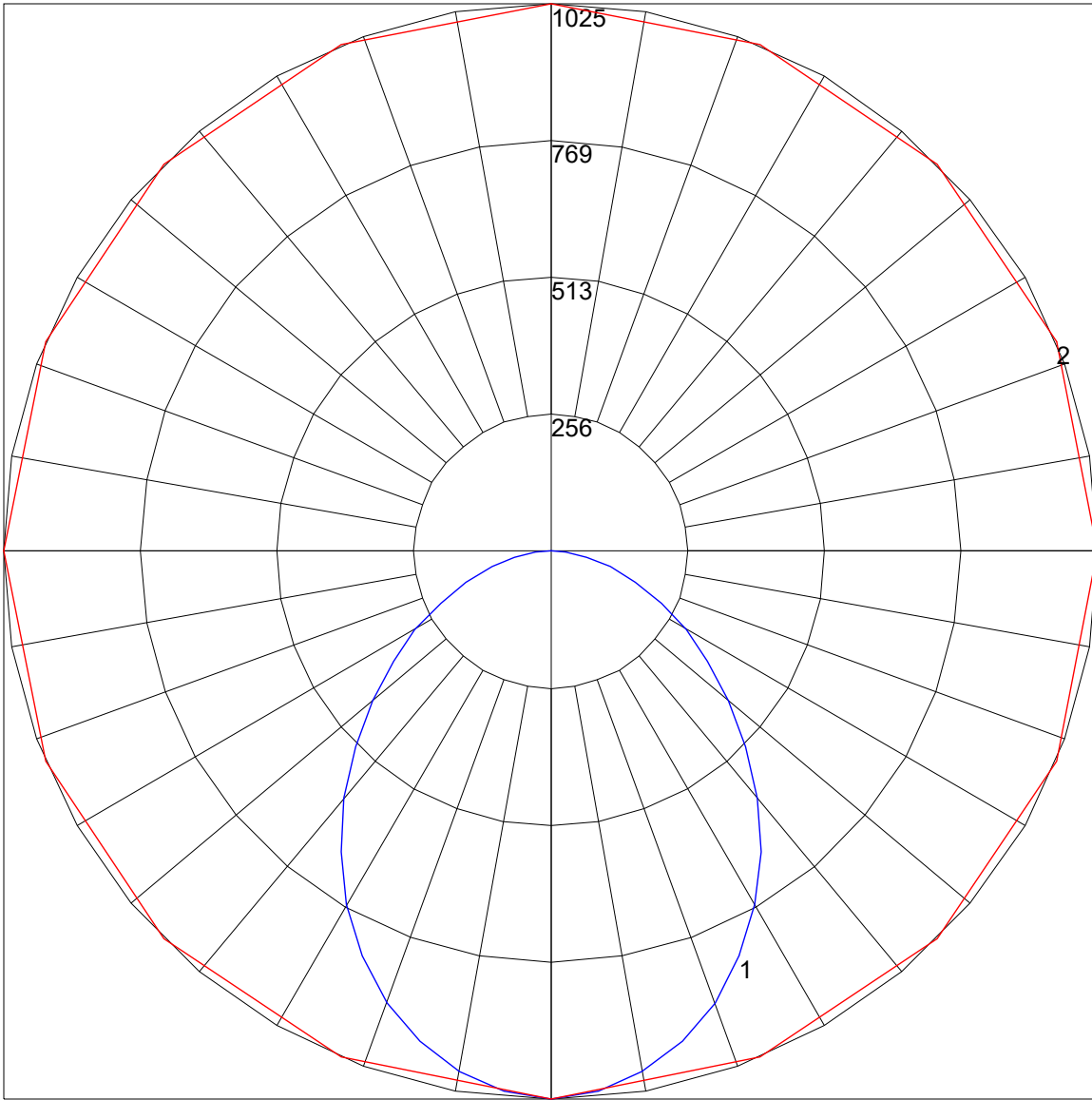
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 63 |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 56 | 54 |
| 5 | 79 | 66 | 58 | 52 | 77 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 48 |
| 6 | 73 | 60 | 52 | 46 | 71 | 59 | 51 | 46 | 58 | 50 | 45 | 56 | 50 | 45 | 54 | 49 | 44 | 42 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 46 | 41 | 53 | 46 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 63 | 51 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 35 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |

POLAR GRAPH



Maximum Candela = 1025 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.)