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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L041607903.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041607903
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 4/27/2016
 [MANUFAC] GM LIGHTING
 [LUMCAT] LARC6-8-WW-W
 [LUMINAIRE] 24" Portable Cabinet LED LUMINAIRE
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [TEST CONDITION] CANDELA VALUES ARE GENERATED FROM LIGHT LABORATORY L041607901
 [MORE] BY USING THE LENGHT RATIO OF 3.0.
 [POWER SUPPLY] 24VDC CONSTANT VOLTAGE SOURCE
 [INPUT] 24VDC, 9.15W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 692 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 76 |
| Total Luminaire Watts | 9.15 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.40 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.04 ft |
| Luminous Width (90-270) | 1.56 ft |
| Luminous Height | 0.00 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 39446 | 39351 | 39388 |
| 55 | 38417 | 38345 | 38273 |
| 65 | 36334 | 36077 | 36028 |
| 75 | 31342 | 30843 | 30663 |
| 85 | 22898 | 19932 | 16432 |

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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 | 236.43 | 236.43 | 236.43 | 236.43 | 236.43 |
| 5 | 235.35 | 235.47 | 235.47 | 235.35 | 235.86 |
| 10 | 232.59 | 232.44 | 232.44 | 232.32 | 232.83 |
| 15 | 227.55 | 227.67 | 227.67 | 227.67 | 227.79 |
| 20 | 221.01 | 221.01 | 221.01 | 221.01 | 221.25 |
| 25 | 212.43 | 212.31 | 212.31 | 212.31 | 212.70 |
| 30 | 202.38 | 202.11 | 201.99 | 201.87 | 202.38 |
| 35 | 190.56 | 190.05 | 190.29 | 190.29 | 190.29 |
| 40 | 176.70 | 176.82 | 176.58 | 176.58 | 176.94 |
| 45 | 161.85 | 161.61 | 161.46 | 161.22 | 161.61 |
| 50 | 145.74 | 145.23 | 145.35 | 144.87 | 145.23 |
| 55 | 127.86 | 127.50 | 127.62 | 127.23 | 127.38 |
| 60 | 108.48 | 108.75 | 107.97 | 108.24 | 108.48 |
| 65 | 89.10 | 89.10 | 88.47 | 88.23 | 88.35 |
| 70 | 69.21 | 68.22 | 67.71 | 67.32 | 67.20 |
| 75 | 47.07 | 47.58 | 46.32 | 45.69 | 46.05 |
| 80 | 27.69 | 27.93 | 26.82 | 26.04 | 25.68 |
| 85 | 11.58 | 11.07 | 10.08 | 8.82 | 8.31 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 86.66 | N.A. | 12.50 |
| 0-30 | 184.56 | N.A. | 26.70 |
| 0-40 | 303.57 | N.A. | 43.90 |
| 0-60 | 541.99 | N.A. | 78.30 |
| 0-80 | 679.04 | N.A. | 98.20 |
| 0-90 | 691.79 | N.A. | 100.00 |
| 10-90 | 669.41 | N.A. | 96.80 |
| 20-40 | 216.91 | N.A. | 31.40 |
| 20-50 | 341.51 | N.A. | 49.40 |
| 40-70 | 325.93 | N.A. | 47.10 |
| 60-80 | 137.06 | N.A. | 19.80 |
| 70-80 | 49.54 | N.A. | 7.20 |
| 80-90 | 12.74 | N.A. | 1.80 |
| 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 | 691.79 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 22.38 |
| 10-20 | 64.28 |
| 20-30 | 97.91 |
| 30-40 | 119.00 |
| 40-50 | 124.60 |
| 50-60 | 113.82 |
| 60-70 | 87.51 |
| 70-80 | 49.54 |
| 80-90 | 12.74 |
| 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 |

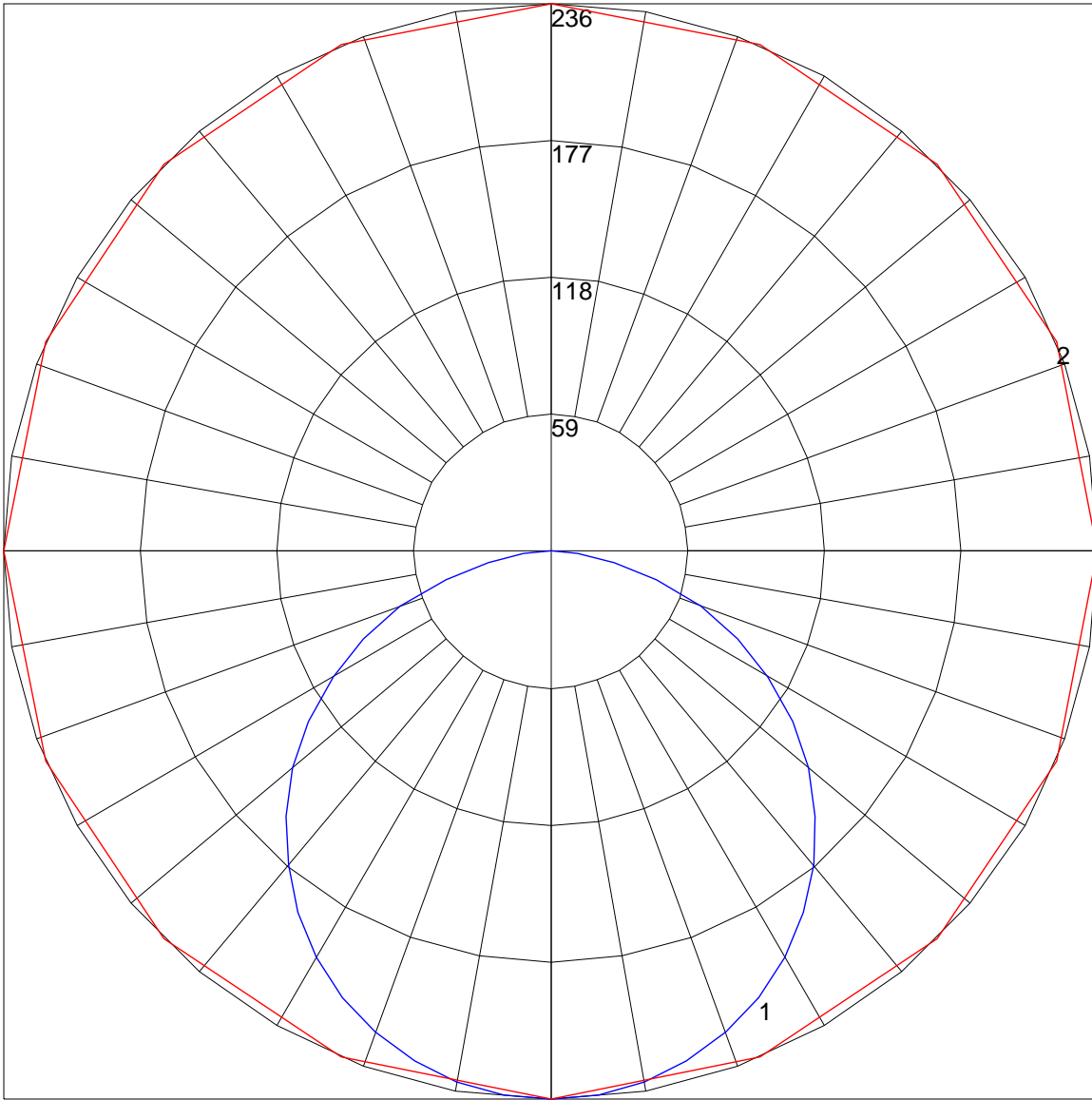
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 104 | 99 | 96 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 49 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 |

POLAR GRAPH



Maximum Candela = 236.43 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.)