



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL45 UV 935 @850MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 4 SEL45 UV 935

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,

[MORE] no enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set to 850mA

[OTHER] 120.0Vac, 60.00Hz

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6673 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 156 |
| Total Luminaire Watts | 42.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.32 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.38 ft |
| Luminous Height | 0.02 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 15861 | 15329 | 15232 |
| 55 | 15591 | 14871 | 14461 |
| 65 | 14734 | 13531 | 13038 |
| 75 | 12552 | 10616 | 9938 |
| 85 | 7049 | 4766 | 4285 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 816.09 | N.A. | 12.20 |
| 0-30 | 1747.67 | N.A. | 26.20 |
| 0-40 | 2893.46 | N.A. | 43.40 |
| 0-60 | 5235.06 | N.A. | 78.50 |
| 0-80 | 6565.02 | N.A. | 98.40 |
| 0-90 | 6672.23 | N.A. | 100.00 |
| 10-90 | 6462.13 | N.A. | 96.80 |
| 20-40 | 2077.36 | N.A. | 31.10 |
| 20-50 | 3295.19 | N.A. | 49.40 |
| 40-70 | 3201.46 | N.A. | 48.00 |
| 60-80 | 1329.95 | N.A. | 19.90 |
| 70-80 | 470.10 | N.A. | 7.00 |
| 80-90 | 107.21 | N.A. | 1.60 |
| 90-110 | 0.58 | N.A. | 0.00 |
| 90-120 | 0.58 | N.A. | 0.00 |
| 90-130 | 0.58 | N.A. | 0.00 |
| 90-150 | 0.58 | N.A. | 0.00 |
| 90-180 | 0.58 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 6672.81 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 210.10 |
| 10-20 | 606.00 |
| 20-30 | 931.57 |
| 30-40 | 1145.79 |
| 40-50 | 1217.83 |
| 50-60 | 1123.78 |
| 60-70 | 859.85 |
| 70-80 | 470.10 |
| 80-90 | 107.21 |
| 90-100 | 0.58 |
| 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 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 82 | 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 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 52 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 |

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UGR TABLE - CORRECTED

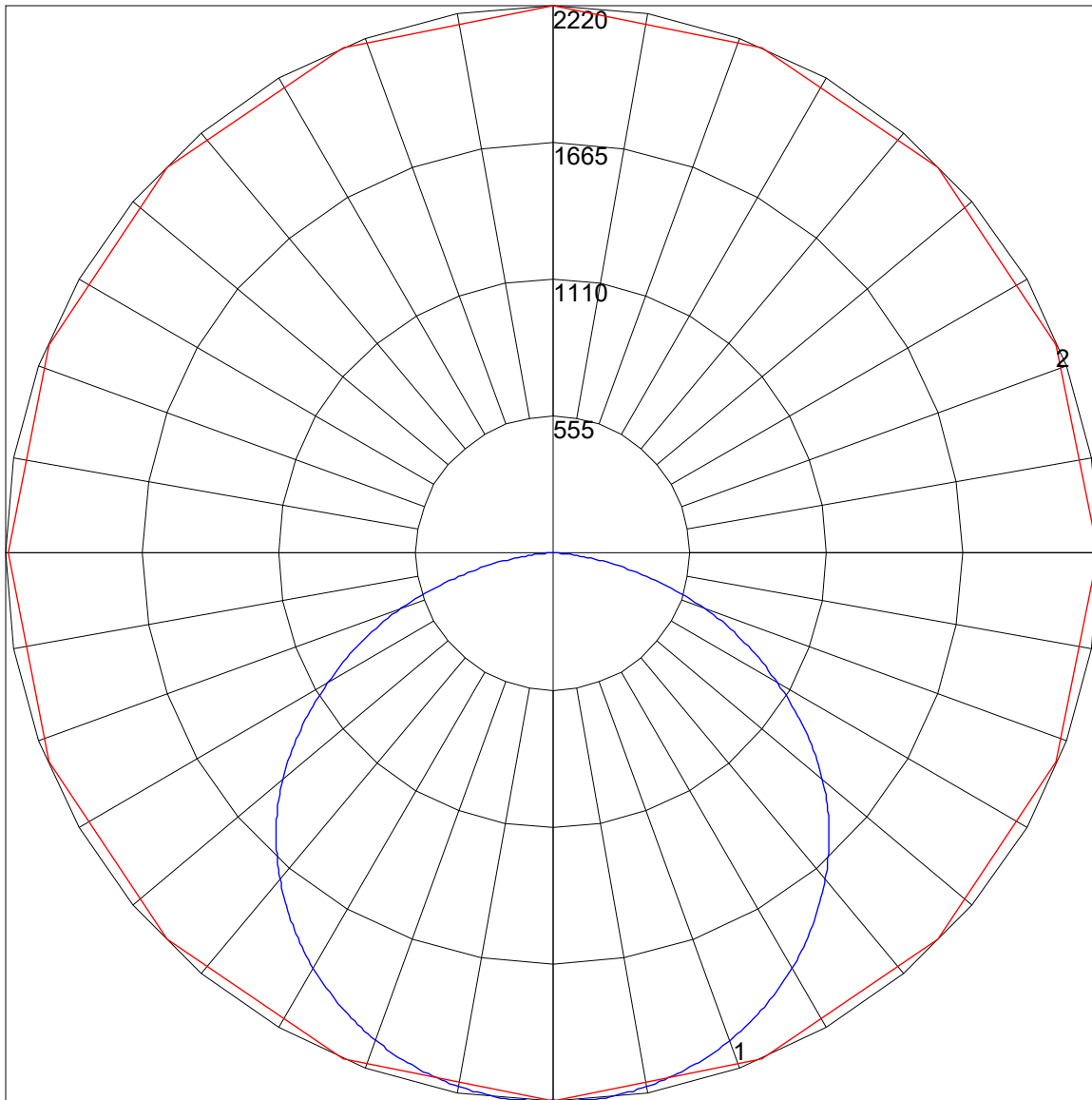
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 21.6 | 23.3 | 22.0 | 23.6 | 23.9 | 21.7 | 23.4 | 22.1 | 23.7 | 24.0 |
| | 3H | 23.4 | 24.9 | 23.8 | 25.2 | 25.6 | 23.5 | 25.0 | 23.9 | 25.4 | 25.7 |
| | 4H | 24.0 | 25.4 | 24.4 | 25.8 | 26.1 | 24.1 | 25.5 | 24.5 | 25.9 | 26.3 |
| | 6H | 24.4 | 25.7 | 24.8 | 26.1 | 26.5 | 24.5 | 25.8 | 24.9 | 26.2 | 26.6 |
| | 8H | 24.5 | 25.7 | 24.9 | 26.1 | 26.5 | 24.6 | 25.9 | 25.0 | 26.2 | 26.6 |
| | 12H | 24.5 | 25.7 | 24.9 | 26.1 | 26.5 | 24.6 | 25.9 | 25.1 | 26.2 | 26.7 |
| 4H | 2H | 22.3 | 23.7 | 22.7 | 24.0 | 24.4 | 22.4 | 23.8 | 22.8 | 24.1 | 24.5 |
| | 3H | 24.2 | 25.4 | 24.6 | 25.8 | 26.2 | 24.3 | 25.5 | 24.7 | 25.9 | 26.3 |
| | 4H | 25.0 | 26.0 | 25.4 | 26.4 | 26.9 | 25.0 | 26.1 | 25.4 | 26.5 | 26.9 |
| | 6H | 25.5 | 26.4 | 25.9 | 26.8 | 27.3 | 25.5 | 26.4 | 26.0 | 26.9 | 27.3 |
| | 8H | 25.6 | 26.4 | 26.0 | 26.9 | 27.4 | 25.6 | 26.5 | 26.1 | 27.0 | 27.4 |
| | 12H | 25.6 | 26.4 | 26.1 | 26.9 | 27.4 | 25.7 | 26.5 | 26.2 | 27.0 | 27.5 |
| 8H | 4H | 25.2 | 26.1 | 25.7 | 26.5 | 27.0 | 25.3 | 26.2 | 25.7 | 26.6 | 27.1 |
| | 6H | 25.8 | 26.5 | 26.3 | 27.0 | 27.5 | 25.8 | 26.6 | 26.3 | 27.1 | 27.5 |
| | 8H | 25.9 | 26.6 | 26.5 | 27.1 | 27.6 | 26.0 | 26.7 | 26.5 | 27.2 | 27.7 |
| | 12H | 26.1 | 26.6 | 26.6 | 27.1 | 27.7 | 26.1 | 26.7 | 26.6 | 27.2 | 27.8 |
| 12H | 4H | 25.2 | 26.0 | 25.7 | 26.5 | 27.0 | 25.3 | 26.1 | 25.8 | 26.6 | 27.0 |
| | 6H | 25.8 | 26.5 | 26.3 | 26.9 | 27.5 | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 |
| | 8H | 26.0 | 26.6 | 26.5 | 27.1 | 27.7 | 26.1 | 26.7 | 26.6 | 27.1 | 27.7 |

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2219.914 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)