



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 6 SEL15 UV FR 940 @200MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 6 SEL15 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Three LS3872A 28 LED boards, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set at 200mA

[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 | 1334 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 150 |
| Total Luminaire Watts | 8.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 5.84 ft |
| Luminous Width (90-270) | 0.21 ft |
| Luminous Height | 0.06 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3420 | 3047 | 2958 |
| 55 | 2977 | 2691 | 2620 |
| 65 | 2393 | 2259 | 2198 |
| 75 | 1751 | 1806 | 1722 |
| 85 | 1044 | 1464 | 1306 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 163.55 | N.A. | 12.30 |
| 0-30 | 347.77 | N.A. | 26.10 |
| 0-40 | 569.39 | N.A. | 42.70 |
| 0-60 | 997.94 | N.A. | 74.80 |
| 0-80 | 1243.33 | N.A. | 93.20 |
| 0-90 | 1291.16 | N.A. | 96.80 |
| 10-90 | 1248.91 | N.A. | 93.60 |
| 20-40 | 405.84 | N.A. | 30.40 |
| 20-50 | 633.28 | N.A. | 47.50 |
| 40-70 | 579.70 | N.A. | 43.50 |
| 60-80 | 245.39 | N.A. | 18.40 |
| 70-80 | 94.24 | N.A. | 7.10 |
| 80-90 | 47.83 | N.A. | 3.60 |
| 90-110 | 32.13 | N.A. | 2.40 |
| 90-120 | 37.51 | N.A. | 2.80 |
| 90-130 | 40.35 | N.A. | 3.00 |
| 90-150 | 42.48 | N.A. | 3.20 |
| 90-180 | 42.86 | N.A. | 3.20 |
| 110-180 | 10.73 | N.A. | 0.80 |
| 0-180 | 1334.02 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 42.25 |
| 10-20 | 121.30 |
| 20-30 | 184.22 |
| 30-40 | 221.62 |
| 40-50 | 227.44 |
| 50-60 | 201.11 |
| 60-70 | 151.15 |
| 70-80 | 94.24 |
| 80-90 | 47.83 |
| 90-100 | 21.69 |
| 100-110 | 10.44 |
| 110-120 | 5.38 |
| 120-130 | 2.84 |
| 130-140 | 1.45 |
| 140-150 | 0.68 |
| 150-160 | 0.29 |
| 160-170 | 0.08 |
| 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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 91 | 88 | 90 | 88 | 85 | 86 | 84 | 82 | 80 |
| 2 | 97 | 89 | 82 | 76 | 94 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 74 | 70 | 75 | 72 | 68 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 47 |
| 5 | 75 | 62 | 53 | 46 | 72 | 60 | 52 | 46 | 58 | 50 | 45 | 56 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 69 | 56 | 47 | 40 | 67 | 54 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 48 | 43 | 38 | 36 |
| 7 | 64 | 50 | 42 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 34 | 44 | 38 | 34 | 32 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 28 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 25 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 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

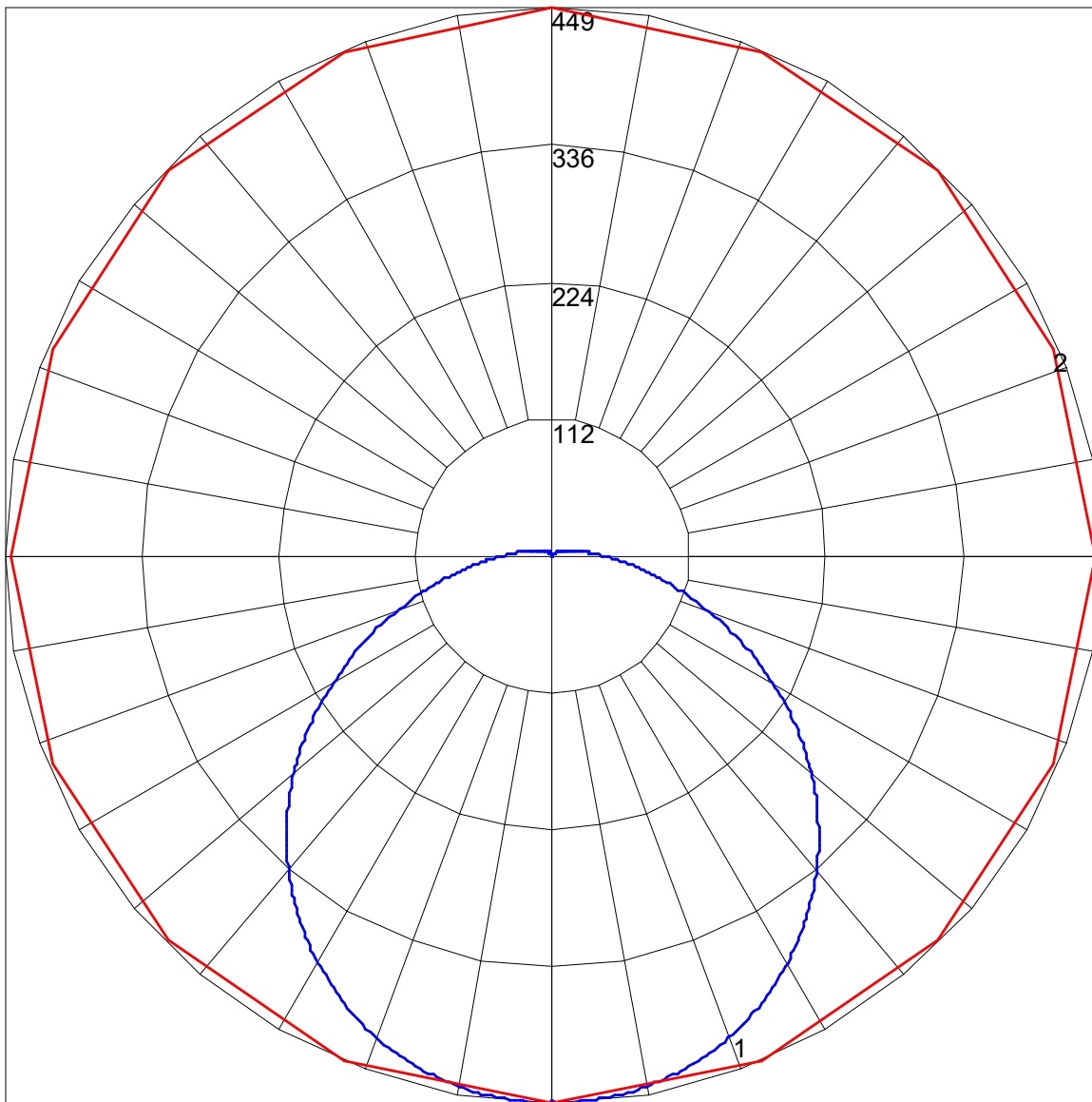
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 14.1 | 15.6 | 14.5 | 16.0 | 16.4 | 16.1 | 17.7 | 16.5 | 18.1 | 18.5 |
| | 3H | 15.3 | 16.7 | 15.7 | 17.1 | 17.5 | 18.1 | 19.5 | 18.5 | 19.9 | 20.3 |
| | 4H | 15.6 | 17.0 | 16.1 | 17.4 | 17.8 | 18.9 | 20.3 | 19.4 | 20.7 | 21.1 |
| | 6H | 15.8 | 17.1 | 16.3 | 17.5 | 18.0 | 19.7 | 21.0 | 20.2 | 21.4 | 21.9 |
| | 8H | 15.8 | 17.1 | 16.3 | 17.5 | 18.0 | 20.1 | 21.3 | 20.6 | 21.8 | 22.2 |
| | 12H | 15.9 | 17.0 | 16.3 | 17.5 | 18.0 | 20.5 | 21.7 | 21.0 | 22.1 | 22.6 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 14.9 | 16.3 | 15.4 | 16.7 | 17.1 | 16.5 | 17.9 | 17.0 | 18.3 | 18.7 |
| | 3H | 16.3 | 17.5 | 16.8 | 17.9 | 18.4 | 18.7 | 19.9 | 19.2 | 20.3 | 20.8 |
| | 4H | 16.8 | 17.9 | 17.3 | 18.3 | 18.8 | 19.7 | 20.7 | 20.2 | 21.2 | 21.7 |
| | 6H | 17.1 | 18.0 | 17.6 | 18.5 | 19.1 | 20.7 | 21.6 | 21.2 | 22.1 | 22.6 |
| | 8H | 17.2 | 18.0 | 17.7 | 18.5 | 19.1 | 21.1 | 22.0 | 21.6 | 22.5 | 23.0 |
| | 12H | 17.2 | 18.0 | 17.7 | 18.5 | 19.1 | 21.6 | 22.4 | 22.1 | 22.9 | 23.5 |
| 8H | 4H | 17.4 | 18.2 | 17.9 | 18.7 | 19.3 | 19.9 | 20.8 | 20.4 | 21.2 | 21.8 |
| | 6H | 17.8 | 18.5 | 18.4 | 19.1 | 19.6 | 21.0 | 21.7 | 21.5 | 22.3 | 22.8 |
| | 8H | 17.9 | 18.6 | 18.5 | 19.2 | 19.7 | 21.6 | 22.2 | 22.1 | 22.8 | 23.3 |
| | 12H | 18.0 | 18.6 | 18.6 | 19.2 | 19.8 | 22.2 | 22.8 | 22.8 | 23.3 | 24.0 |
| 12H | 4H | 17.5 | 18.3 | 18.0 | 18.8 | 19.3 | 19.9 | 20.7 | 20.4 | 21.2 | 21.7 |
| | 6H | 18.0 | 18.7 | 18.6 | 19.2 | 19.8 | 21.0 | 21.7 | 21.6 | 22.2 | 22.8 |
| | 8H | 18.2 | 18.8 | 18.8 | 19.4 | 20.0 | 21.7 | 22.2 | 22.2 | 22.8 | 23.4 |

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 448.661 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)