



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 6 SEL45 UV FR 930 @750MA.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 SEL45 UV FR 930

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Three LS3872A 48 LED boards, 3000K

[BALLAST] One KTLD-45-UV-PS850-54-VDIM-LM1 LED driver set at 750mA

[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 | 5601 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 153 |
| Total Luminaire Watts | 36.7 |
| 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 | 14362 | 12792 | 12421 |
| 55 | 12498 | 11298 | 11000 |
| 65 | 10050 | 9484 | 9230 |
| 75 | 7352 | 7582 | 7232 |
| 85 | 4385 | 6146 | 5483 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 686.70 | N.A. | 12.30 |
| 0-30 | 1460.19 | N.A. | 26.10 |
| 0-40 | 2390.69 | N.A. | 42.70 |
| 0-60 | 4190.06 | N.A. | 74.80 |
| 0-80 | 5220.37 | N.A. | 93.20 |
| 0-90 | 5421.19 | N.A. | 96.80 |
| 10-90 | 5243.81 | N.A. | 93.60 |
| 20-40 | 1703.98 | N.A. | 30.40 |
| 20-50 | 2658.96 | N.A. | 47.50 |
| 40-70 | 2433.99 | N.A. | 43.50 |
| 60-80 | 1030.31 | N.A. | 18.40 |
| 70-80 | 395.69 | N.A. | 7.10 |
| 80-90 | 200.82 | N.A. | 3.60 |
| 90-110 | 134.91 | N.A. | 2.40 |
| 90-120 | 157.48 | N.A. | 2.80 |
| 90-130 | 169.42 | N.A. | 3.00 |
| 90-150 | 178.37 | N.A. | 3.20 |
| 90-180 | 179.94 | N.A. | 3.20 |
| 110-180 | 45.04 | N.A. | 0.80 |
| 0-180 | 5601.13 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 177.38 |
| 10-20 | 509.32 |
| 20-30 | 773.48 |
| 30-40 | 930.50 |
| 40-50 | 954.97 |
| 50-60 | 844.40 |
| 60-70 | 634.62 |
| 70-80 | 395.69 |
| 80-90 | 200.82 |
| 90-100 | 91.05 |
| 100-110 | 43.85 |
| 110-120 | 22.57 |
| 120-130 | 11.94 |
| 130-140 | 6.11 |
| 140-150 | 2.85 |
| 150-160 | 1.22 |
| 160-170 | 0.35 |
| 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 | 19.1 | 20.6 | 19.5 | 21.0 | 21.4 | 21.1 | 22.7 | 21.5 | 23.1 | 23.5 |
| | 3H | 20.3 | 21.7 | 20.7 | 22.1 | 22.5 | 23.1 | 24.5 | 23.5 | 24.9 | 25.3 |
| | 4H | 20.6 | 22.0 | 21.1 | 22.4 | 22.8 | 23.9 | 25.3 | 24.4 | 25.7 | 26.1 |
| | 6H | 20.8 | 22.1 | 21.3 | 22.5 | 23.0 | 24.7 | 26.0 | 25.2 | 26.4 | 26.9 |
| | 8H | 20.8 | 22.1 | 21.3 | 22.5 | 23.0 | 25.1 | 26.3 | 25.6 | 26.8 | 27.2 |
| | 12H | 20.9 | 22.0 | 21.3 | 22.5 | 23.0 | 25.5 | 26.7 | 26.0 | 27.1 | 27.6 |

UGR Viewed Endwise

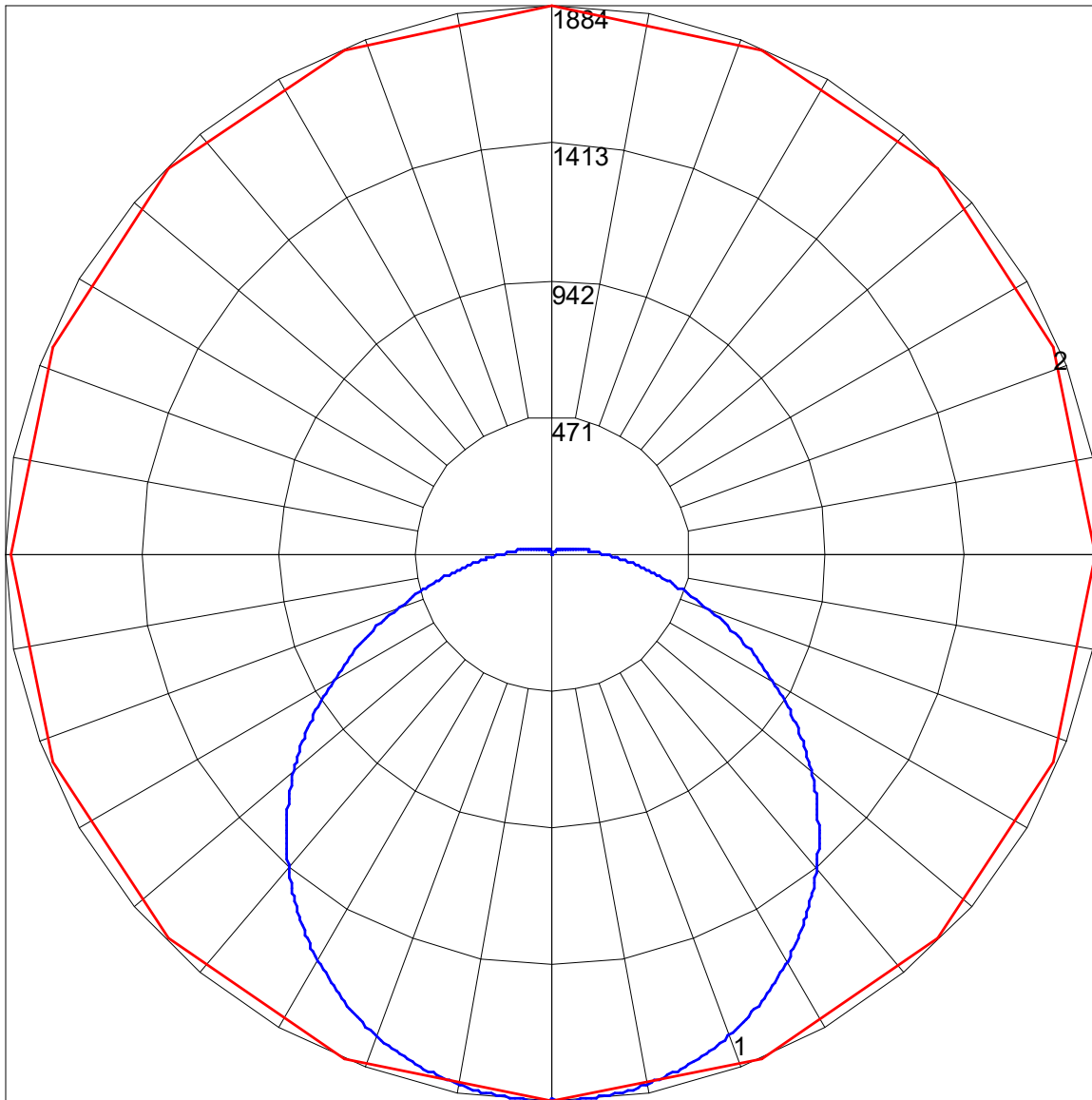
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 19.9 | 21.3 | 20.4 | 21.7 | 22.1 | 21.5 | 22.9 | 22.0 | 23.3 | 23.7 |
| | 3H | 21.3 | 22.5 | 21.8 | 22.9 | 23.4 | 23.7 | 24.9 | 24.2 | 25.3 | 25.8 |
| | 4H | 21.8 | 22.9 | 22.3 | 23.3 | 23.8 | 24.7 | 25.7 | 25.2 | 26.2 | 26.7 |
| | 6H | 22.1 | 23.0 | 22.6 | 23.5 | 24.1 | 25.7 | 26.6 | 26.2 | 27.1 | 27.6 |
| | 8H | 22.2 | 23.0 | 22.7 | 23.5 | 24.1 | 26.1 | 27.0 | 26.6 | 27.5 | 28.0 |
| | 12H | 22.2 | 23.0 | 22.7 | 23.5 | 24.1 | 26.6 | 27.4 | 27.1 | 27.9 | 28.5 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 22.4 | 23.2 | 22.9 | 23.7 | 24.3 | 24.9 | 25.8 | 25.4 | 26.2 | 26.8 |
| | 6H | 22.8 | 23.5 | 23.4 | 24.1 | 24.6 | 26.0 | 26.7 | 26.5 | 27.3 | 27.8 |
| | 8H | 22.9 | 23.6 | 23.5 | 24.2 | 24.7 | 26.6 | 27.2 | 27.1 | 27.8 | 28.3 |
| | 12H | 23.1 | 23.6 | 23.6 | 24.2 | 24.8 | 27.2 | 27.8 | 27.8 | 28.3 | 29.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 22.5 | 23.3 | 23.0 | 23.8 | 24.3 | 24.9 | 25.7 | 25.4 | 26.2 | 26.7 |
| | 6H | 23.0 | 23.7 | 23.6 | 24.2 | 24.8 | 26.0 | 26.7 | 26.6 | 27.2 | 27.8 |
| | 8H | 23.2 | 23.8 | 23.8 | 24.4 | 25.0 | 26.7 | 27.2 | 27.2 | 27.8 | 28.4 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1883.795 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.)