



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 SEL45 UV FR 940 @750MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 2 SEL45 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 84 LED board, 4000K

[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 | 4971 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 151 |
| Total Luminaire Watts | 32.9 |
| 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) | 1.99 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 | 35880 | 32785 | 32361 |
| 55 | 30728 | 28717 | 28669 |
| 65 | 24358 | 23988 | 24315 |
| 75 | 17486 | 19234 | 19440 |
| 85 | 9661 | 15599 | 15320 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 607.74 | N.A. | 12.20 |
| 0-30 | 1292.99 | N.A. | 26.00 |
| 0-40 | 2116.14 | N.A. | 42.60 |
| 0-60 | 3698.57 | N.A. | 74.40 |
| 0-80 | 4611.26 | N.A. | 92.80 |
| 0-90 | 4795.35 | N.A. | 96.50 |
| 10-90 | 4638.46 | N.A. | 93.30 |
| 20-40 | 1508.4 | N.A. | 30.30 |
| 20-50 | 2349.58 | N.A. | 47.30 |
| 40-70 | 2141.36 | N.A. | 43.10 |
| 60-80 | 912.69 | N.A. | 18.40 |
| 70-80 | 353.76 | N.A. | 7.10 |
| 80-90 | 184.10 | N.A. | 3.70 |
| 90-110 | 127.32 | N.A. | 2.60 |
| 90-120 | 149.31 | N.A. | 3.00 |
| 90-130 | 161.39 | N.A. | 3.20 |
| 90-150 | 172.22 | N.A. | 3.50 |
| 90-180 | 175.25 | N.A. | 3.50 |
| 110-180 | 47.93 | N.A. | 1.00 |
| 0-180 | 4970.61 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 156.89 |
| 10-20 | 450.85 |
| 20-30 | 685.26 |
| 30-40 | 823.14 |
| 40-50 | 841.18 |
| 50-60 | 741.25 |
| 60-70 | 558.93 |
| 70-80 | 353.76 |
| 80-90 | 184.10 |
| 90-100 | 85.54 |
| 100-110 | 41.78 |
| 110-120 | 21.99 |
| 120-130 | 12.08 |
| 130-140 | 6.90 |
| 140-150 | 3.93 |
| 150-160 | 2.17 |
| 160-170 | 0.78 |
| 170-180 | 0.08 |

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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 | 96 |
| 1 | 107 | 102 | 98 | 93 | 104 | 99 | 95 | 92 | 95 | 91 | 88 | 90 | 87 | 85 | 86 | 84 | 82 | 79 |
| 2 | 97 | 89 | 82 | 76 | 94 | 87 | 80 | 75 | 82 | 77 | 72 | 79 | 74 | 70 | 75 | 71 | 68 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 69 | 64 | 59 | 66 | 62 | 58 | 55 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 47 |
| 5 | 75 | 62 | 53 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 45 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 69 | 56 | 47 | 40 | 67 | 54 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 38 | 48 | 42 | 38 | 36 |
| 7 | 64 | 50 | 42 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 34 | 44 | 38 | 34 | 32 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 40 | 35 | 30 | 28 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 37 | 32 | 27 | 25 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 29 | 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 | 22.2 | 23.7 | 22.6 | 24.1 | 24.6 | 24.3 | 25.9 | 24.7 | 26.3 | 26.7 |
| | 3H | 23.4 | 24.8 | 23.8 | 25.2 | 25.7 | 26.3 | 27.7 | 26.8 | 28.1 | 28.6 |
| | 4H | 23.7 | 25.1 | 24.2 | 25.5 | 26.0 | 27.2 | 28.5 | 27.6 | 28.9 | 29.4 |
| | 6H | 23.9 | 25.2 | 24.4 | 25.6 | 26.1 | 28.0 | 29.2 | 28.5 | 29.7 | 30.2 |
| | 8H | 24.0 | 25.2 | 24.5 | 25.6 | 26.1 | 28.4 | 29.5 | 28.9 | 30.0 | 30.5 |
| | 12H | 24.0 | 25.1 | 24.5 | 25.6 | 26.1 | 28.8 | 29.9 | 29.3 | 30.4 | 30.9 |

UGR Viewed Endwise

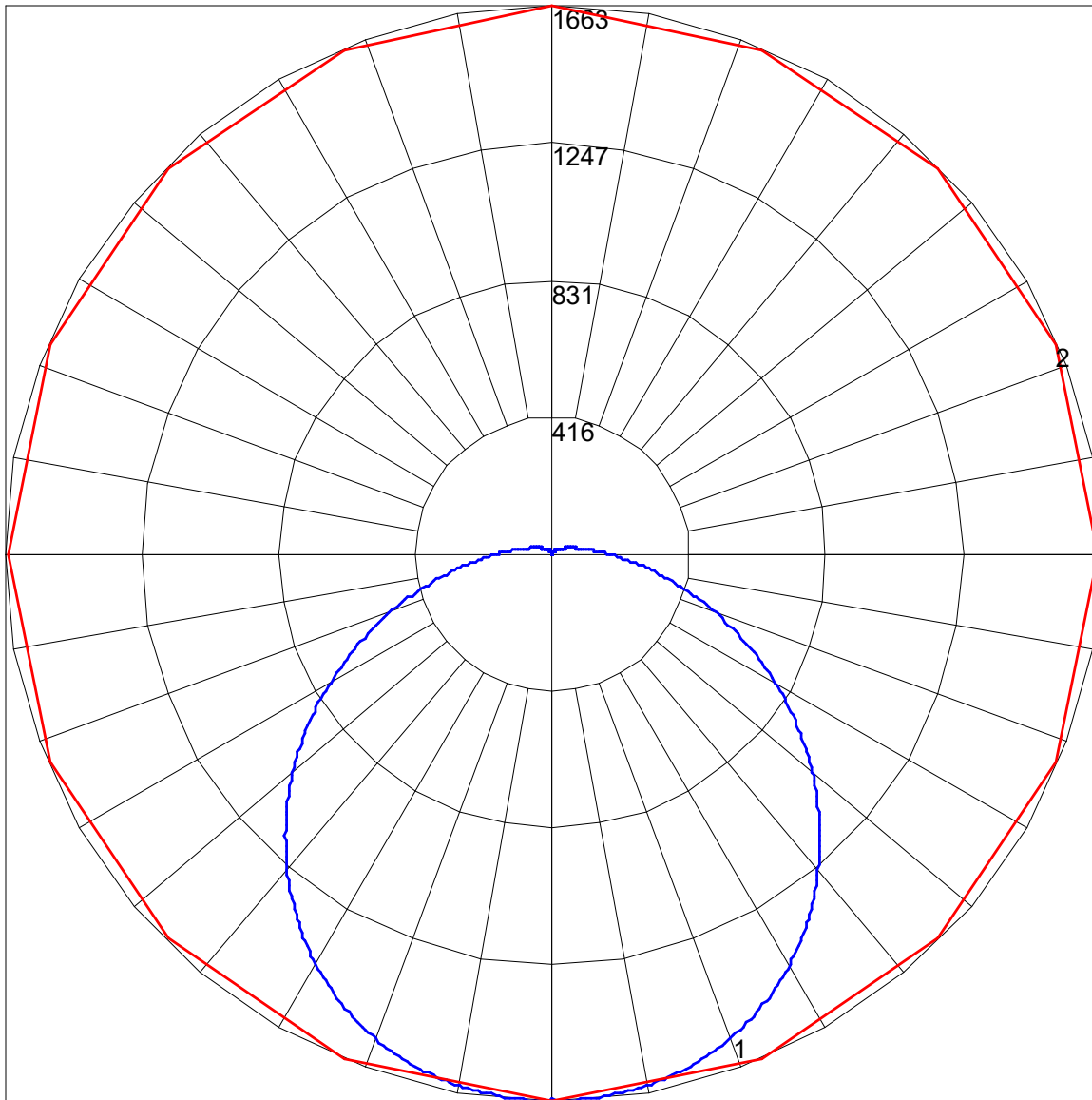
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 23.0 | 24.4 | 23.5 | 24.8 | 25.3 | 24.7 | 26.1 | 25.2 | 26.5 | 27.0 |
| | 3H | 24.5 | 25.6 | 25.0 | 26.1 | 26.6 | 26.9 | 28.1 | 27.4 | 28.5 | 29.0 |
| | 4H | 25.0 | 26.0 | 25.5 | 26.5 | 27.0 | 28.0 | 29.0 | 28.4 | 29.5 | 30.0 |
| | 6H | 25.3 | 26.2 | 25.8 | 26.7 | 27.2 | 28.9 | 29.8 | 29.5 | 30.3 | 30.9 |
| | 8H | 25.3 | 26.2 | 25.9 | 26.7 | 27.2 | 29.4 | 30.2 | 29.9 | 30.8 | 31.3 |
| | 12H | 25.4 | 26.1 | 25.9 | 26.7 | 27.2 | 29.9 | 30.7 | 30.4 | 31.2 | 31.8 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 25.5 | 26.4 | 26.0 | 26.9 | 27.4 | 28.1 | 29.0 | 28.7 | 29.5 | 30.1 |
| | 6H | 26.0 | 26.7 | 26.5 | 27.2 | 27.8 | 29.3 | 30.0 | 29.8 | 30.5 | 31.1 |
| | 8H | 26.1 | 26.8 | 26.7 | 27.3 | 27.9 | 29.8 | 30.5 | 30.4 | 31.1 | 31.6 |
| | 12H | 26.2 | 26.8 | 26.8 | 27.3 | 28.0 | 30.5 | 31.1 | 31.1 | 31.6 | 32.3 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 25.6 | 26.4 | 26.2 | 26.9 | 27.5 | 28.1 | 28.9 | 28.7 | 29.4 | 30.0 |
| | 6H | 26.2 | 26.8 | 26.8 | 27.4 | 28.0 | 29.3 | 29.9 | 29.9 | 30.5 | 31.1 |
| | 8H | 26.4 | 27.0 | 27.0 | 27.5 | 28.2 | 30.0 | 30.5 | 30.5 | 31.1 | 31.7 |

Maximum UGR = 32.3

POLAR GRAPH



Maximum Candela = 1662.776 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.)