



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL35 UV FR 940 @650MA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 4 SEL35 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Two LS3872A 48 LED boards, 4000K

[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set to 650mA

[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 | 5047 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 158 |
| Total Luminaire Watts | 31.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.38 ft |
| Luminous Height | 0.06 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 10631 | 10235 | 10225 |
| 55 | 9266 | 9288 | 9391 |
| 65 | 7448 | 8122 | 8290 |
| 75 | 5405 | 6941 | 7019 |
| 85 | 3100 | 6459 | 6156 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ECL G2 4 SEL35 UV FR 940 @650MA.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 627.45 | N.A. | 12.40 |
| 0-30 | 1334.34 | N.A. | 26.40 |
| 0-40 | 2184.84 | N.A. | 43.30 |
| 0-60 | 3829.88 | N.A. | 75.90 |
| 0-80 | 4774.17 | N.A. | 94.60 |
| 0-90 | 4956.67 | N.A. | 98.20 |
| 10-90 | 4794.64 | N.A. | 95.00 |
| 20-40 | 1557.39 | N.A. | 30.90 |
| 20-50 | 2430.07 | N.A. | 48.20 |
| 40-70 | 2226.51 | N.A. | 44.10 |
| 60-80 | 944.29 | N.A. | 18.70 |
| 70-80 | 362.82 | N.A. | 7.20 |
| 80-90 | 182.49 | N.A. | 3.60 |
| 90-110 | 89.96 | N.A. | 1.80 |
| 90-120 | 90.14 | N.A. | 1.80 |
| 90-130 | 90.14 | N.A. | 1.80 |
| 90-150 | 90.14 | N.A. | 1.80 |
| 90-180 | 90.14 | N.A. | 1.80 |
| 110-180 | 0.18 | N.A. | 0.00 |
| 0-180 | 5046.81 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 162.02 |
| 10-20 | 465.43 |
| 20-30 | 706.89 |
| 30-40 | 850.50 |
| 40-50 | 872.68 |
| 50-60 | 772.36 |
| 60-70 | 581.47 |
| 70-80 | 362.82 |
| 80-90 | 182.49 |
| 90-100 | 73.15 |
| 100-110 | 16.81 |
| 110-120 | 0.18 |
| 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 81 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 83 | 78 | 73 | 80 | 75 | 71 | 76 | 73 | 69 | 67 |
| 3 | 89 | 78 | 70 | 63 | 86 | 77 | 69 | 63 | 73 | 67 | 61 | 70 | 65 | 60 | 67 | 63 | 59 | 56 |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 48 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 36 | 31 | 42 | 36 | 31 | 41 | 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 | 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

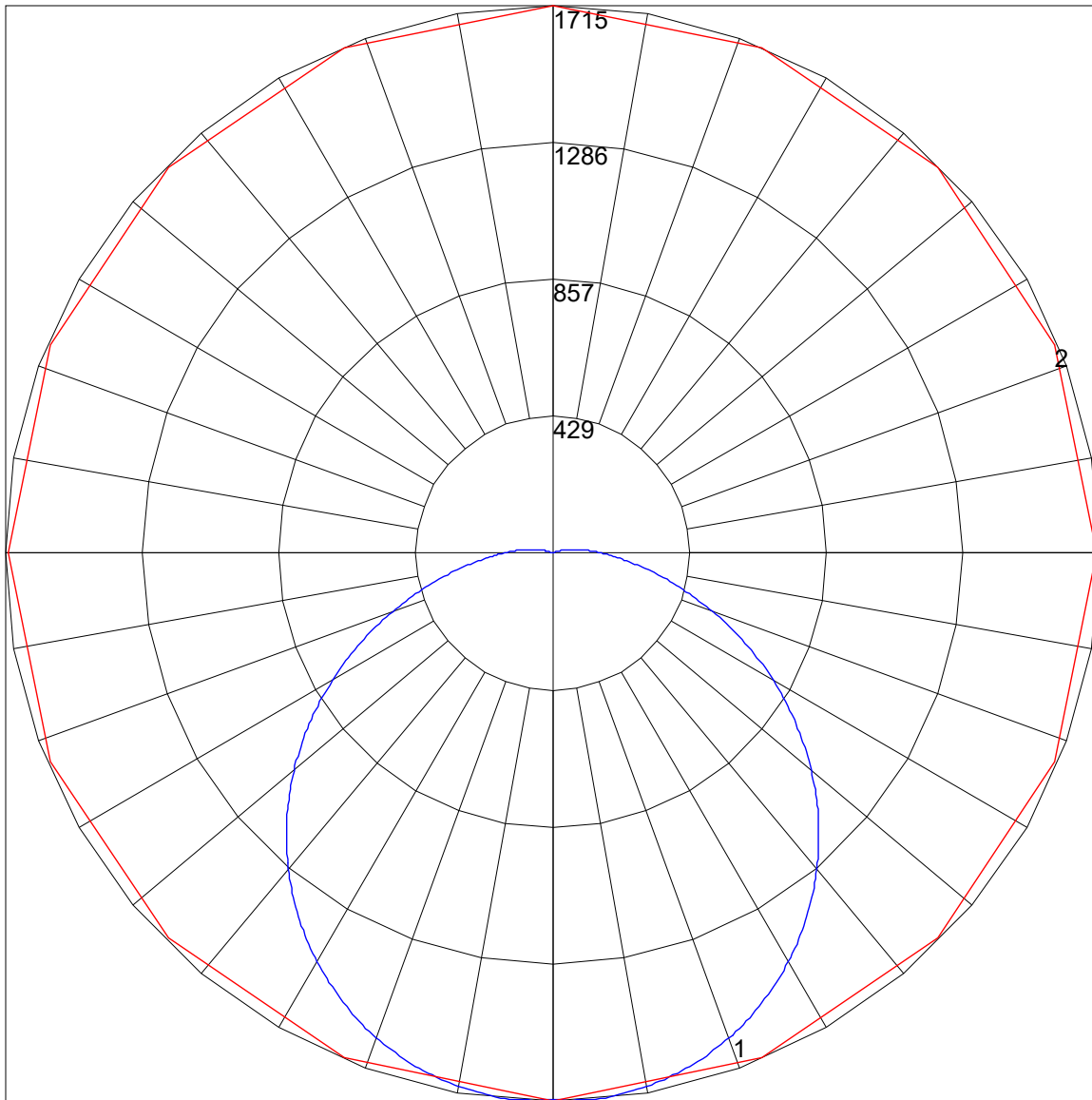
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 18.6 | 20.2 | 19.0 | 20.6 | 20.9 | 20.3 | 21.9 | 20.7 | 22.2 | 22.6 |
| | 3H | 19.9 | 21.4 | 20.3 | 21.7 | 22.1 | 22.3 | 23.7 | 22.7 | 24.1 | 24.5 |
| | 4H | 20.3 | 21.7 | 20.7 | 22.1 | 22.5 | 23.1 | 24.5 | 23.5 | 24.9 | 25.3 |
| | 6H | 20.5 | 21.8 | 21.0 | 22.2 | 22.6 | 23.9 | 25.2 | 24.3 | 25.6 | 26.0 |
| | 8H | 20.6 | 21.8 | 21.0 | 22.2 | 22.7 | 24.3 | 25.5 | 24.7 | 25.9 | 26.4 |
| | 12H | 20.6 | 21.8 | 21.1 | 22.2 | 22.7 | 24.7 | 25.8 | 25.1 | 26.2 | 26.7 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 19.4 | 20.8 | 19.9 | 21.2 | 21.6 | 20.7 | 22.1 | 21.2 | 22.5 | 22.9 |
| | 3H | 21.0 | 22.1 | 21.4 | 22.6 | 23.0 | 23.0 | 24.1 | 23.4 | 24.6 | 25.0 |
| | 4H | 21.5 | 22.6 | 22.0 | 23.0 | 23.5 | 24.0 | 25.0 | 24.4 | 25.5 | 26.0 |
| | 6H | 21.8 | 22.8 | 22.3 | 23.3 | 23.8 | 24.9 | 25.9 | 25.4 | 26.3 | 26.8 |
| | 8H | 21.9 | 22.8 | 22.4 | 23.3 | 23.8 | 25.4 | 26.3 | 25.9 | 26.7 | 27.2 |
| | 12H | 22.0 | 22.8 | 22.5 | 23.3 | 23.8 | 25.9 | 26.7 | 26.4 | 27.2 | 27.7 |
| 8H | 4H | 22.1 | 22.9 | 22.5 | 23.4 | 23.9 | 24.2 | 25.1 | 24.7 | 25.5 | 26.1 |
| | 6H | 22.6 | 23.3 | 23.1 | 23.8 | 24.4 | 25.3 | 26.1 | 25.8 | 26.6 | 27.1 |
| | 8H | 22.8 | 23.4 | 23.3 | 23.9 | 24.5 | 25.9 | 26.6 | 26.4 | 27.1 | 27.6 |
| | 12H | 22.9 | 23.4 | 23.4 | 24.0 | 24.6 | 26.5 | 27.1 | 27.1 | 27.7 | 28.3 |
| 12H | 4H | 22.2 | 23.0 | 22.7 | 23.5 | 24.0 | 24.2 | 25.0 | 24.7 | 25.5 | 26.0 |
| | 6H | 22.8 | 23.5 | 23.4 | 24.0 | 24.5 | 25.4 | 26.0 | 25.9 | 26.5 | 27.1 |
| | 8H | 23.0 | 23.6 | 23.6 | 24.1 | 24.8 | 26.0 | 26.6 | 26.5 | 27.1 | 27.7 |

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1714.999 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)