



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 8 SEL15 UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA002568-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 1/3/2025

[MANUFAC] LumenFocus, LLC

[LUMCAT] EWL S G2 8 SEL15 UV FA 940

[LUMINAIRE] Surface or pendant mounted, formed white painted steel housing,
[MORE] formed white painted steel reflector, frosted plastic enclosure with interior

[MORE] linear prisms

[LAMPCAT] Four CL115-4000K-R90-A6 CREE G CLASS PRO 9 28UP LED boards with 28 LEDs each.

[BALLAST] One Keystone Technologies KTLD-15-UV-PS300-54-VDIM-LP1 LED selectable output driver

[OTHER] 120.0Vac, 60.00Hz

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | 2118.096 (1 lamp) |
| Total Lamp Lumens | 2118.096 |
| Luminaire Lumens | 2118 |
| Total Luminaire Efficiency | 100 % |
| Luminaire Efficacy Rating (LER) | 159 |
| Total Luminaire Watts | 13.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 8.00 ft |
| Luminous Width (90-270) | 0.44 ft |
| Luminous Height | 0.12 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1660 | 1545 | 1575 |
| 55 | 1492 | 1393 | 1460 |
| 65 | 1296 | 1227 | 1342 |
| 75 | 1033 | 1046 | 1219 |
| 85 | 560 | 872 | 1120 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|--------|
| 0-20 | 242.00 | 11.40 | 11.40 |
| 0-30 | 510.77 | 24.10 | 24.10 |
| 0-40 | 830.35 | 39.20 | 39.20 |
| 0-60 | 1454.67 | 68.70 | 68.70 |
| 0-80 | 1850.69 | 87.40 | 87.40 |
| 0-90 | 1936.64 | 91.40 | 91.40 |
| 10-90 | 1873.79 | 88.50 | 88.50 |
| 20-40 | 588.35 | 27.80 | 27.80 |
| 20-50 | 915.92 | 43.20 | 43.20 |
| 40-70 | 860.68 | 40.60 | 40.60 |
| 60-80 | 396.03 | 18.70 | 18.70 |
| 70-80 | 159.65 | 7.50 | 7.50 |
| 80-90 | 85.95 | 4.10 | 4.10 |
| 90-110 | 86.51 | 4.10 | 4.10 |
| 90-120 | 117.32 | 5.50 | 5.50 |
| 90-130 | 141.71 | 6.70 | 6.70 |
| 90-150 | 171.31 | 8.10 | 8.10 |
| 90-180 | 181.56 | 8.60 | 8.60 |
| 110-180 | 95.05 | 4.50 | 4.50 |
| 0-180 | 2118.2 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 62.85 |
| 10-20 | 179.15 |
| 20-30 | 268.76 |
| 30-40 | 319.59 |
| 40-50 | 327.57 |
| 50-60 | 296.74 |
| 60-70 | 236.37 |
| 70-80 | 159.65 |
| 80-90 | 85.95 |
| 90-100 | 48.40 |
| 100-110 | 38.11 |
| 110-120 | 30.81 |
| 120-130 | 24.38 |
| 130-140 | 17.93 |
| 140-150 | 11.68 |
| 150-160 | 6.51 |
| 160-170 | 2.96 |
| 170-180 | 0.79 |

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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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 91 |
| 1 | 106 | 101 | 96 | 92 | 102 | 97 | 93 | 89 | 92 | 88 | 85 | 86 | 83 | 81 | 81 | 79 | 77 | 74 |
| 2 | 96 | 87 | 80 | 74 | 92 | 85 | 78 | 73 | 80 | 74 | 70 | 75 | 71 | 67 | 71 | 67 | 64 | 61 |
| 3 | 87 | 76 | 68 | 61 | 84 | 74 | 66 | 60 | 70 | 63 | 58 | 66 | 61 | 56 | 62 | 58 | 54 | 51 |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 57 | 51 | 62 | 55 | 49 | 59 | 53 | 48 | 56 | 50 | 46 | 44 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 46 | 41 | 50 | 45 | 40 | 38 |
| 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 41 | 36 | 45 | 40 | 35 | 33 |
| 7 | 63 | 49 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 38 | 33 | 43 | 37 | 32 | 41 | 36 | 31 | 29 |
| 8 | 58 | 45 | 36 | 30 | 56 | 44 | 36 | 30 | 42 | 35 | 29 | 40 | 33 | 29 | 38 | 32 | 28 | 26 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 38 | 31 | 26 | 37 | 30 | 26 | 35 | 29 | 25 | 23 |
| 10 | 51 | 38 | 30 | 25 | 49 | 37 | 30 | 24 | 36 | 29 | 24 | 34 | 28 | 23 | 33 | 27 | 23 | 21 |

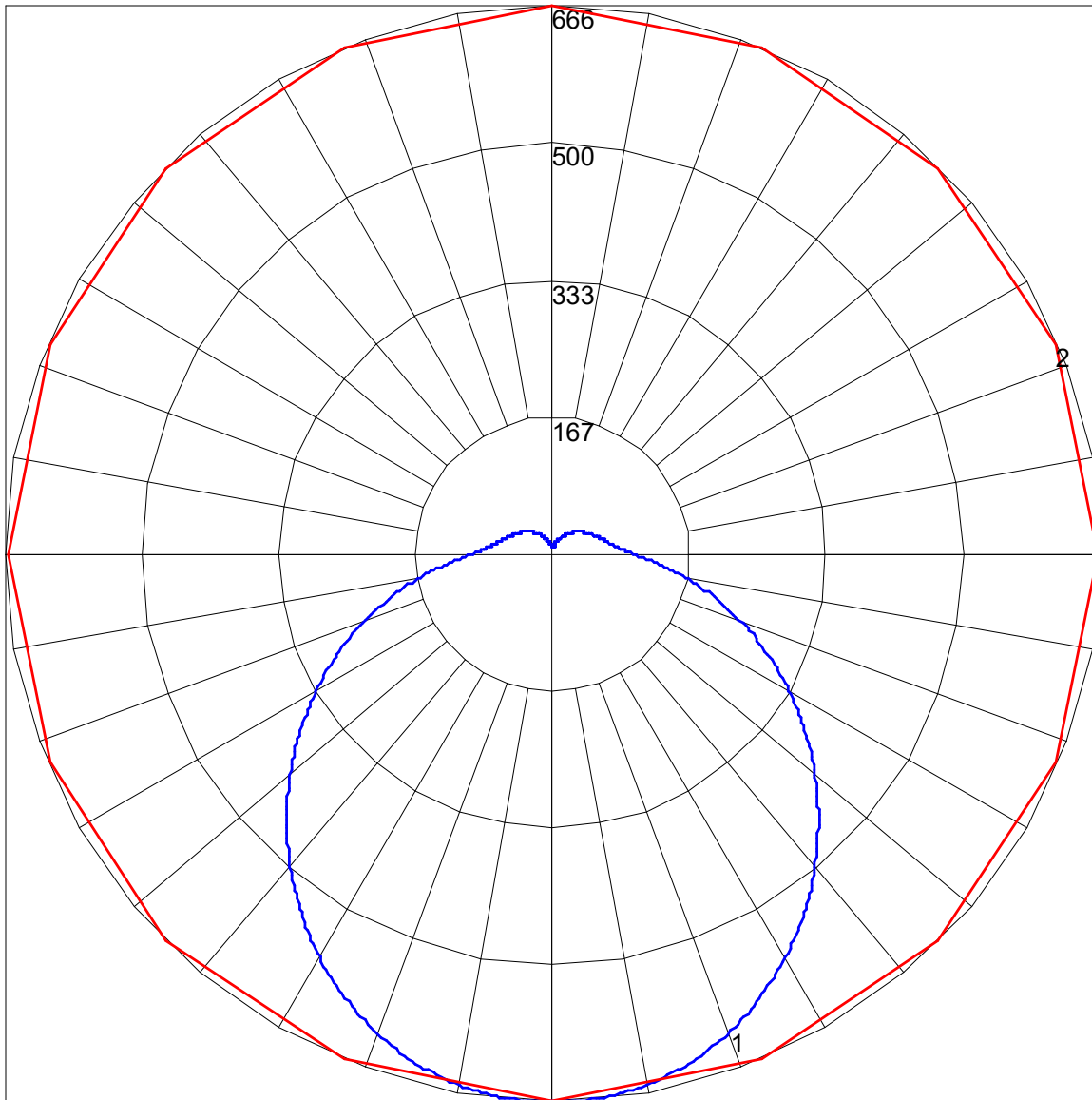
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 11.3 | 12.8 | 11.8 | 13.3 | 13.8 | 13.6 | 15.1 | 14.1 | 15.6 | 16.1 |
| | 3H | 12.7 | 14.1 | 13.3 | 14.6 | 15.1 | 16.0 | 17.3 | 16.5 | 17.8 | 18.4 |
| | 4H | 13.2 | 14.4 | 13.7 | 14.9 | 15.5 | 17.0 | 18.3 | 17.5 | 18.8 | 19.4 |
| | 6H | 13.4 | 14.6 | 14.0 | 15.1 | 15.7 | 18.1 | 19.3 | 18.6 | 19.8 | 20.4 |
| | 8H | 13.5 | 14.6 | 14.0 | 15.1 | 15.8 | 18.6 | 19.7 | 19.2 | 20.3 | 20.9 |
| | 12H | 13.5 | 14.6 | 14.0 | 15.1 | 15.7 | 19.2 | 20.3 | 19.8 | 20.8 | 21.4 |
| 4H | 2H | 12.2 | 13.5 | 12.7 | 14.0 | 14.6 | 14.0 | 15.3 | 14.6 | 15.8 | 16.4 |
| | 3H | 13.8 | 14.9 | 14.4 | 15.5 | 16.1 | 16.6 | 17.6 | 17.1 | 18.2 | 18.8 |
| | 4H | 14.4 | 15.4 | 14.9 | 15.9 | 16.6 | 17.8 | 18.8 | 18.4 | 19.3 | 20.0 |
| | 6H | 14.7 | 15.6 | 15.3 | 16.2 | 16.9 | 19.1 | 19.9 | 19.6 | 20.5 | 21.2 |
| | 8H | 14.8 | 15.6 | 15.4 | 16.2 | 16.9 | 19.7 | 20.5 | 20.3 | 21.1 | 21.8 |
| | 12H | 14.9 | 15.6 | 15.5 | 16.2 | 16.9 | 20.4 | 21.1 | 21.0 | 21.7 | 22.4 |
| 8H | 4H | 15.0 | 15.8 | 15.6 | 16.4 | 17.1 | 18.0 | 18.8 | 18.6 | 19.4 | 20.0 |
| | 6H | 15.5 | 16.2 | 16.2 | 16.8 | 17.5 | 19.4 | 20.1 | 20.0 | 20.7 | 21.4 |
| | 8H | 15.7 | 16.3 | 16.3 | 16.9 | 17.6 | 20.2 | 20.8 | 20.8 | 21.4 | 22.1 |
| | 12H | 15.8 | 16.3 | 16.4 | 16.9 | 17.7 | 21.0 | 21.6 | 21.7 | 22.2 | 22.9 |
| 12H | 4H | 15.2 | 15.9 | 15.8 | 16.5 | 17.2 | 18.0 | 18.7 | 18.6 | 19.3 | 20.0 |
| | 6H | 15.8 | 16.4 | 16.4 | 17.0 | 17.7 | 19.4 | 20.0 | 20.1 | 20.6 | 21.4 |
| | 8H | 16.0 | 16.5 | 16.6 | 17.2 | 17.9 | 20.2 | 20.8 | 20.9 | 21.4 | 22.2 |

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 666.315 Located At Horizontal Angle = 90, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)