



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

[IESNA:LM-63-2002

[TEST] LLIA002568-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 1/3/2025

[MANUFAC] LumenFocus, LLC

[LUMCAT] EWL S G2 8 SH 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-A5 CREE G CLASS PRO 9 84UP LED boards with 84 LEDs each.

[BALLAST] Two Keystone Technologies KTLD-85-UV-P2300-55-VDIM-LT2 LED drivers set at 1,580mA

[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 | 21627 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 151 |
| Total Luminaire Watts | 143.2 |
| 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 | 16946 | 15775 | 16078 |
| 55 | 15234 | 14223 | 14907 |
| 65 | 13230 | 12524 | 13700 |
| 75 | 10545 | 10681 | 12450 |
| 85 | 5715 | 8905 | 11434 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2470.86 | N.A. | 11.40 |
| 0-30 | 5214.94 | N.A. | 24.10 |
| 0-40 | 8477.93 | N.A. | 39.20 |
| 0-60 | 14852.14 | N.A. | 68.70 |
| 0-80 | 18895.56 | N.A. | 87.40 |
| 0-90 | 19773.13 | N.A. | 91.40 |
| 10-90 | 19131.38 | N.A. | 88.50 |
| 20-40 | 6007.07 | N.A. | 27.80 |
| 20-50 | 9351.52 | N.A. | 43.20 |
| 40-70 | 8787.58 | N.A. | 40.60 |
| 60-80 | 4043.42 | N.A. | 18.70 |
| 70-80 | 1630.06 | N.A. | 7.50 |
| 80-90 | 877.56 | N.A. | 4.10 |
| 90-110 | 883.26 | N.A. | 4.10 |
| 90-120 | 1197.88 | N.A. | 5.50 |
| 90-130 | 1446.81 | N.A. | 6.70 |
| 90-150 | 1749.04 | N.A. | 8.10 |
| 90-180 | 1853.74 | N.A. | 8.60 |
| 110-180 | 970.48 | N.A. | 4.50 |
| 0-180 | 21626.87 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 641.75 |
| 10-20 | 1829.11 |
| 20-30 | 2744.08 |
| 30-40 | 3262.98 |
| 40-50 | 3344.45 |
| 50-60 | 3029.77 |
| 60-70 | 2413.36 |
| 70-80 | 1630.06 |
| 80-90 | 877.56 |
| 90-100 | 494.15 |
| 100-110 | 389.12 |
| 110-120 | 314.62 |
| 120-130 | 248.93 |
| 130-140 | 183.02 |
| 140-150 | 119.20 |
| 150-160 | 66.42 |
| 160-170 | 30.26 |
| 170-180 | 8.02 |

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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 | 72 | 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 | 44 | 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

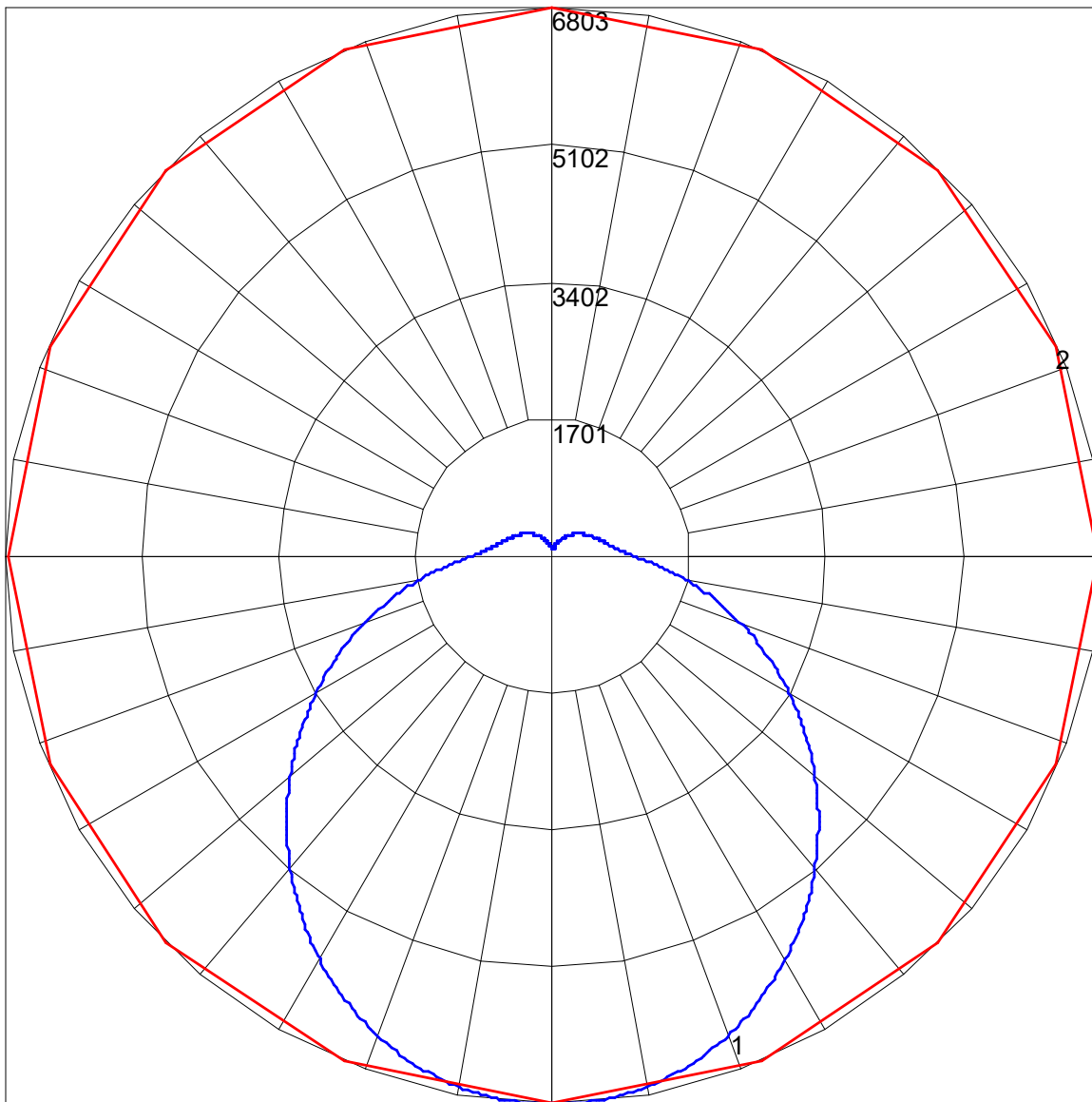
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 19.4 | 20.9 | 19.9 | 21.4 | 21.9 | 21.7 | 23.2 | 22.2 | 23.7 | 24.2 |
| | 3H | 20.8 | 22.1 | 21.3 | 22.7 | 23.2 | 24.0 | 25.4 | 24.6 | 25.9 | 26.4 |
| | 4H | 21.3 | 22.5 | 21.8 | 23.0 | 23.6 | 25.1 | 26.4 | 25.6 | 26.9 | 27.5 |
| | 6H | 21.5 | 22.7 | 22.1 | 23.2 | 23.8 | 26.2 | 27.3 | 26.7 | 27.9 | 28.5 |
| | 8H | 21.6 | 22.7 | 22.1 | 23.2 | 23.8 | 26.7 | 27.8 | 27.3 | 28.4 | 29.0 |
| | 12H | 21.6 | 22.6 | 22.1 | 23.2 | 23.8 | 27.3 | 28.4 | 27.8 | 28.9 | 29.5 |
| 4H | 2H | 20.3 | 21.5 | 20.8 | 22.1 | 22.6 | 22.1 | 23.4 | 22.6 | 23.9 | 24.5 |
| | 3H | 21.9 | 23.0 | 22.5 | 23.6 | 24.2 | 24.7 | 25.7 | 25.2 | 26.3 | 26.9 |
| | 4H | 22.5 | 23.4 | 23.0 | 24.0 | 24.7 | 25.9 | 26.9 | 26.5 | 27.4 | 28.1 |
| | 6H | 22.8 | 23.7 | 23.4 | 24.3 | 24.9 | 27.1 | 28.0 | 27.7 | 28.6 | 29.3 |
| | 8H | 22.9 | 23.7 | 23.5 | 24.3 | 25.0 | 27.8 | 28.6 | 28.4 | 29.2 | 29.8 |
| | 12H | 23.0 | 23.7 | 23.6 | 24.3 | 25.0 | 28.5 | 29.2 | 29.1 | 29.8 | 30.5 |
| 8H | 4H | 23.1 | 23.9 | 23.7 | 24.5 | 25.2 | 26.1 | 26.9 | 26.7 | 27.5 | 28.1 |
| | 6H | 23.6 | 24.3 | 24.3 | 24.9 | 25.6 | 27.5 | 28.2 | 28.1 | 28.8 | 29.5 |
| | 8H | 23.8 | 24.4 | 24.4 | 25.0 | 25.7 | 28.2 | 28.9 | 28.9 | 29.5 | 30.2 |
| | 12H | 23.9 | 24.4 | 24.5 | 25.0 | 25.8 | 29.1 | 29.7 | 29.8 | 30.3 | 31.0 |
| 12H | 4H | 23.3 | 24.0 | 23.9 | 24.6 | 25.3 | 26.1 | 26.8 | 26.7 | 27.4 | 28.1 |
| | 6H | 23.9 | 24.5 | 24.5 | 25.1 | 25.8 | 27.5 | 28.1 | 28.2 | 28.7 | 29.5 |
| | 8H | 24.1 | 24.6 | 24.7 | 25.3 | 26.0 | 28.3 | 28.9 | 29.0 | 29.5 | 30.3 |

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 6803.083 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.)