



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL S G2 4 MD UV FA 935.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 4 MD UV FA 935

[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] Two CL116-3500K-R90-A5 CREE G CLASS PRO 9 48UP LED boards with 48 LEDs each.

[BALLAST] One Keystone Technologies KTLD-50-UV-P1400-55-VDIM-LT1 LED driver set at 840mA

[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 | 6278 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 147 |
| Total Luminaire Watts | 42.6 |
| 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) | 4.00 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 | 9702 | 9082 | 9335 |
| 55 | 8670 | 8165 | 8655 |
| 65 | 7458 | 7162 | 7954 |
| 75 | 5826 | 6069 | 7229 |
| 85 | 2908 | 4991 | 6639 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 717.31 | N.A. | 11.40 |
| 0-30 | 1513.94 | N.A. | 24.10 |
| 0-40 | 2461.21 | N.A. | 39.20 |
| 0-60 | 4311.7 | N.A. | 68.70 |
| 0-80 | 5485.54 | N.A. | 87.40 |
| 0-90 | 5740.3 | N.A. | 91.40 |
| 10-90 | 5554.00 | N.A. | 88.50 |
| 20-40 | 1743.9 | N.A. | 27.80 |
| 20-50 | 2714.82 | N.A. | 43.20 |
| 40-70 | 2551.11 | N.A. | 40.60 |
| 60-80 | 1173.84 | N.A. | 18.70 |
| 70-80 | 473.22 | N.A. | 7.50 |
| 80-90 | 254.76 | N.A. | 4.10 |
| 90-110 | 256.42 | N.A. | 4.10 |
| 90-120 | 347.76 | N.A. | 5.50 |
| 90-130 | 420.02 | N.A. | 6.70 |
| 90-150 | 507.76 | N.A. | 8.10 |
| 90-180 | 538.16 | N.A. | 8.60 |
| 110-180 | 281.74 | N.A. | 4.50 |
| 0-180 | 6278.46 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 186.30 |
| 10-20 | 531.01 |
| 20-30 | 796.63 |
| 30-40 | 947.27 |
| 40-50 | 970.92 |
| 50-60 | 879.57 |
| 60-70 | 700.62 |
| 70-80 | 473.22 |
| 80-90 | 254.76 |
| 90-100 | 143.45 |
| 100-110 | 112.96 |
| 110-120 | 91.34 |
| 120-130 | 72.27 |
| 130-140 | 53.13 |
| 140-150 | 34.61 |
| 150-160 | 19.28 |
| 160-170 | 8.79 |
| 170-180 | 2.33 |

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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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 17.5 | 19.0 | 18.0 | 19.5 | 20.0 | 19.8 | 21.2 | 20.3 | 21.7 | 22.3 |
| | 3H | 18.9 | 20.2 | 19.4 | 20.7 | 21.3 | 22.1 | 23.4 | 22.6 | 23.9 | 24.5 |
| | 4H | 19.3 | 20.6 | 19.9 | 21.1 | 21.7 | 23.1 | 24.4 | 23.6 | 24.9 | 25.5 |
| | 6H | 19.6 | 20.8 | 20.2 | 21.3 | 21.9 | 24.2 | 25.3 | 24.7 | 25.9 | 26.5 |
| | 8H | 19.7 | 20.8 | 20.2 | 21.3 | 21.9 | 24.7 | 25.8 | 25.2 | 26.3 | 26.9 |
| | 12H | 19.7 | 20.7 | 20.2 | 21.3 | 21.9 | 25.2 | 26.3 | 25.8 | 26.8 | 27.5 |

UGR Viewed Endwise

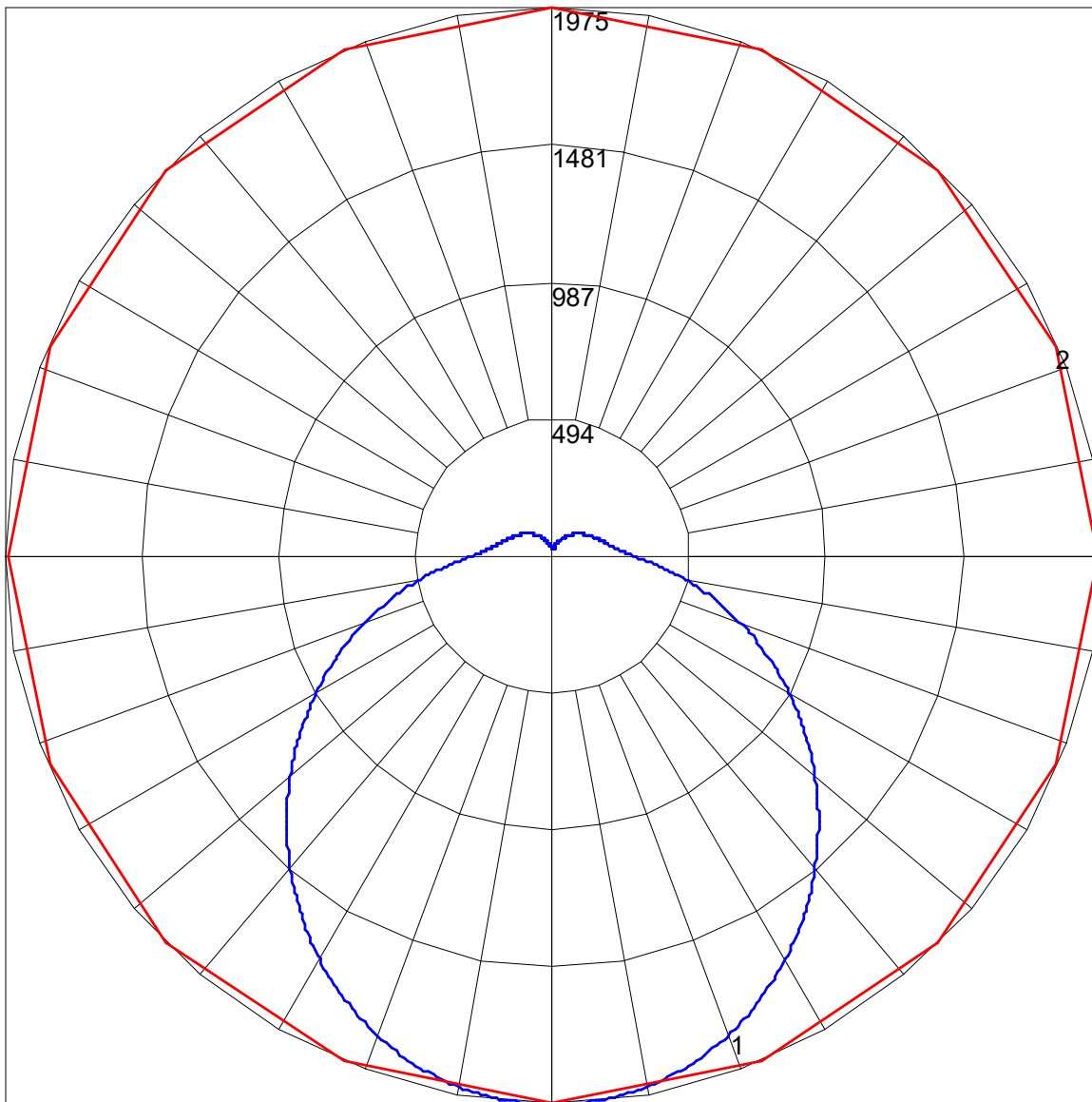
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 18.4 | 19.6 | 18.9 | 20.1 | 20.7 | 20.2 | 21.4 | 20.7 | 21.9 | 22.5 |
| | 3H | 20.0 | 21.1 | 20.6 | 21.6 | 22.2 | 22.7 | 23.7 | 23.2 | 24.3 | 24.9 |
| | 4H | 20.6 | 21.5 | 21.1 | 22.1 | 22.7 | 23.9 | 24.9 | 24.5 | 25.4 | 26.1 |
| | 6H | 20.9 | 21.8 | 21.5 | 22.4 | 23.0 | 25.1 | 26.0 | 25.7 | 26.6 | 27.2 |
| | 8H | 21.0 | 21.8 | 21.6 | 22.4 | 23.1 | 25.7 | 26.5 | 26.3 | 27.1 | 27.8 |
| | 12H | 21.0 | 21.8 | 21.6 | 22.4 | 23.1 | 26.4 | 27.1 | 27.0 | 27.7 | 28.4 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 21.2 | 22.0 | 21.8 | 22.6 | 23.2 | 24.1 | 24.9 | 24.7 | 25.5 | 26.1 |
| | 6H | 21.7 | 22.4 | 22.3 | 23.0 | 23.7 | 25.5 | 26.1 | 26.1 | 26.8 | 27.5 |
| | 8H | 21.8 | 22.4 | 22.5 | 23.1 | 23.8 | 26.2 | 26.8 | 26.8 | 27.5 | 28.1 |
| | 12H | 21.9 | 22.5 | 22.6 | 23.1 | 23.9 | 27.0 | 27.6 | 27.7 | 28.2 | 29.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 21.3 | 22.1 | 21.9 | 22.7 | 23.4 | 24.1 | 24.8 | 24.7 | 25.4 | 26.1 |
| | 6H | 21.9 | 22.5 | 22.6 | 23.2 | 23.9 | 25.5 | 26.1 | 26.1 | 26.7 | 27.5 |
| | 8H | 22.2 | 22.7 | 22.8 | 23.3 | 24.1 | 26.3 | 26.8 | 26.9 | 27.5 | 28.2 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1974.992 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.)