



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EWL N G2 2 VH UV CPA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001971-001A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 12/21/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] EWL N G2 2 VH UV CPA 940

[LUMINAIRE] Surface/pendant mounted, formed white painted steel housing

[MORE] and LED tray/reflector, clear prismatic plastic lens with linear prismatic

[MORE] sides.

[LAMP] 84 white LEDs on one LS3872B5-4000K-R90 LED board

[BALLAST] One ULT Everline D15CC55UNVPW-C LED driver labeled as 800mA

[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 | 5016 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| Total Luminaire Watts | 35.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.32 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 2.00 ft |
| Luminous Width (90-270) | 0.71 ft |
| Luminous Height | 0.10 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 12633 | 11718 | 11379 |
| 55 | 8436 | 9003 | 7425 |
| 65 | 6118 | 6062 | 5572 |
| 75 | 5358 | 4215 | 5782 |
| 85 | 4258 | 3297 | 5940 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 694.38 | N.A. | 13.80 |
| 0-30 | 1483.19 | N.A. | 29.60 |
| 0-40 | 2444.41 | N.A. | 48.70 |
| 0-60 | 4066.97 | N.A. | 81.10 |
| 0-80 | 4735.09 | N.A. | 94.40 |
| 0-90 | 4859.07 | N.A. | 96.90 |
| 10-90 | 4680.00 | N.A. | 93.30 |
| 20-40 | 1750.03 | N.A. | 34.90 |
| 20-50 | 2693.87 | N.A. | 53.70 |
| 40-70 | 2036.63 | N.A. | 40.60 |
| 60-80 | 668.11 | N.A. | 13.30 |
| 70-80 | 254.05 | N.A. | 5.10 |
| 80-90 | 123.99 | N.A. | 2.50 |
| 90-110 | 90.79 | N.A. | 1.80 |
| 90-120 | 119.07 | N.A. | 2.40 |
| 90-130 | 136.14 | N.A. | 2.70 |
| 90-150 | 150.15 | N.A. | 3.00 |
| 90-180 | 156.99 | N.A. | 3.10 |
| 110-180 | 66.20 | N.A. | 1.30 |
| 0-180 | 5016.06 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 179.07 |
| 10-20 | 515.31 |
| 20-30 | 788.81 |
| 30-40 | 961.22 |
| 40-50 | 943.83 |
| 50-60 | 678.73 |
| 60-70 | 414.07 |
| 70-80 | 254.05 |
| 80-90 | 123.99 |
| 90-100 | 50.27 |
| 100-110 | 40.52 |
| 110-120 | 28.27 |
| 120-130 | 17.07 |
| 130-140 | 8.56 |
| 140-150 | 5.45 |
| 150-160 | 3.88 |
| 160-170 | 2.26 |
| 170-180 | 0.70 |

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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 | 97 |
| 1 | 109 | 104 | 100 | 96 | 105 | 101 | 98 | 94 | 97 | 94 | 91 | 92 | 90 | 87 | 88 | 86 | 84 | 82 |
| 2 | 99 | 92 | 85 | 80 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 82 | 78 | 74 | 78 | 75 | 72 | 70 |
| 3 | 91 | 81 | 73 | 67 | 88 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 63 | 70 | 66 | 62 | 60 |
| 4 | 84 | 72 | 64 | 58 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 65 | 60 | 55 | 63 | 58 | 54 | 52 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 72 | 59 | 50 | 44 | 69 | 58 | 50 | 44 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 43 | 38 | 49 | 43 | 38 | 47 | 42 | 37 | 35 |
| 8 | 62 | 49 | 41 | 35 | 60 | 48 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 37 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 40 | 35 | 30 | 29 |
| 10 | 54 | 41 | 34 | 29 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 28 | 37 | 32 | 28 | 26 |

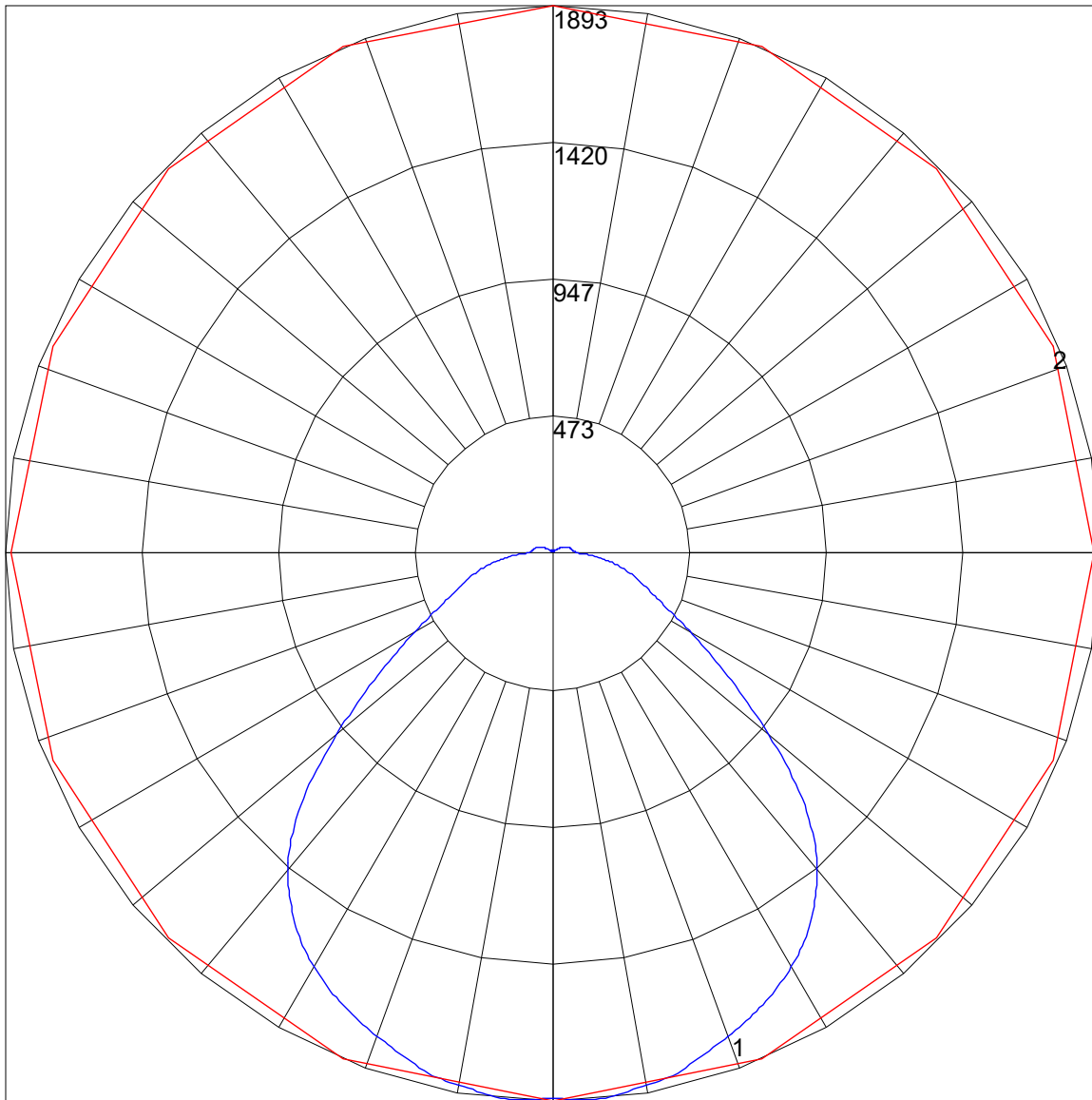
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 18.1 | 19.6 | 18.5 | 20.0 | 20.4 | 18.3 | 19.8 | 18.7 | 20.2 | 20.5 |
| | 3H | 19.2 | 20.5 | 19.6 | 20.9 | 21.3 | 19.8 | 21.2 | 20.3 | 21.6 | 22.0 |
| | 4H | 19.6 | 20.9 | 20.1 | 21.3 | 21.7 | 20.7 | 21.9 | 21.1 | 22.4 | 22.8 |
| | 6H | 20.0 | 21.1 | 20.4 | 21.6 | 22.0 | 21.6 | 22.8 | 22.0 | 23.2 | 23.7 |
| | 8H | 20.1 | 21.2 | 20.6 | 21.7 | 22.1 | 22.0 | 23.2 | 22.5 | 23.6 | 24.1 |
| | 12H | 20.2 | 21.3 | 20.7 | 21.7 | 22.2 | 22.4 | 23.5 | 22.9 | 24.0 | 24.5 |
| 4H | 2H | 18.6 | 19.9 | 19.1 | 20.3 | 20.7 | 18.8 | 20.0 | 19.2 | 20.4 | 20.9 |
| | 3H | 19.8 | 20.9 | 20.3 | 21.4 | 21.8 | 20.5 | 21.6 | 21.0 | 22.0 | 22.5 |
| | 4H | 20.4 | 21.3 | 20.8 | 21.8 | 22.3 | 21.5 | 22.5 | 22.0 | 22.9 | 23.4 |
| | 6H | 20.8 | 21.7 | 21.3 | 22.2 | 22.7 | 22.6 | 23.4 | 23.1 | 23.9 | 24.5 |
| | 8H | 21.0 | 21.8 | 21.5 | 22.3 | 22.8 | 23.1 | 23.9 | 23.6 | 24.4 | 24.9 |
| | 12H | 21.1 | 21.8 | 21.7 | 22.4 | 22.9 | 23.6 | 24.4 | 24.2 | 24.9 | 25.4 |
| 8H | 4H | 20.6 | 21.4 | 21.1 | 21.9 | 22.4 | 21.7 | 22.5 | 22.2 | 23.0 | 23.5 |
| | 6H | 21.2 | 21.9 | 21.7 | 22.4 | 22.9 | 22.9 | 23.6 | 23.4 | 24.1 | 24.7 |
| | 8H | 21.4 | 22.0 | 22.0 | 22.6 | 23.1 | 23.5 | 24.1 | 24.1 | 24.7 | 25.3 |
| | 12H | 21.6 | 22.2 | 22.2 | 22.7 | 23.3 | 24.2 | 24.8 | 24.8 | 25.3 | 25.9 |
| 12H | 4H | 20.7 | 21.4 | 21.2 | 21.9 | 22.5 | 21.7 | 22.4 | 22.2 | 22.9 | 23.4 |
| | 6H | 21.3 | 21.9 | 21.9 | 22.4 | 23.0 | 22.9 | 23.5 | 23.5 | 24.0 | 24.6 |
| | 8H | 21.6 | 22.1 | 22.1 | 22.7 | 23.3 | 23.6 | 24.2 | 24.2 | 24.7 | 25.3 |

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 1893.041 Located At Horizontal Angle = 67.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)