



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SH UV 935.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 8 SH UV 935

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

[MORE] no enclosure.

[LAMP] 256 white LEDs on four LS3872A LED boards

[BALLAST] Two ULT D21CC80UNVPW-D LED drivers labeled as 1420mA

[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 | 21669 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 148 |
| Total Luminaire Watts | 146.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.32 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 8.00 ft |
| Luminous Width (90-270) | 0.38 ft |
| Luminous Height | 0.02 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 25820 | 24933 | 24731 |
| 55 | 25409 | 24206 | 23480 |
| 65 | 24057 | 22050 | 21169 |
| 75 | 20578 | 17339 | 16136 |
| 85 | 11779 | 7850 | 6957 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2650.09 | N.A. | 12.20 |
| 0-30 | 5675.18 | N.A. | 26.20 |
| 0-40 | 9395.89 | N.A. | 43.40 |
| 0-60 | 16999.76 | N.A. | 78.50 |
| 0-80 | 21318.5 | N.A. | 98.40 |
| 0-90 | 21666.64 | N.A. | 100.00 |
| 10-90 | 20984.4 | N.A. | 96.80 |
| 20-40 | 6745.8 | N.A. | 31.10 |
| 20-50 | 10700.43 | N.A. | 49.40 |
| 40-70 | 10396.06 | N.A. | 48.00 |
| 60-80 | 4318.74 | N.A. | 19.90 |
| 70-80 | 1526.55 | N.A. | 7.00 |
| 80-90 | 348.14 | N.A. | 1.60 |
| 90-110 | 1.89 | N.A. | 0.00 |
| 90-120 | 1.89 | N.A. | 0.00 |
| 90-130 | 1.89 | N.A. | 0.00 |
| 90-150 | 1.89 | N.A. | 0.00 |
| 90-180 | 1.89 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 21668.53 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 682.24 |
| 10-20 | 1967.85 |
| 20-30 | 3025.09 |
| 30-40 | 3720.71 |
| 40-50 | 3954.63 |
| 50-60 | 3649.23 |
| 60-70 | 2792.19 |
| 70-80 | 1526.55 |
| 80-90 | 348.14 |
| 90-100 | 1.89 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 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 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 82 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 52 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 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 | 36 | 30 | 25 | 23 |

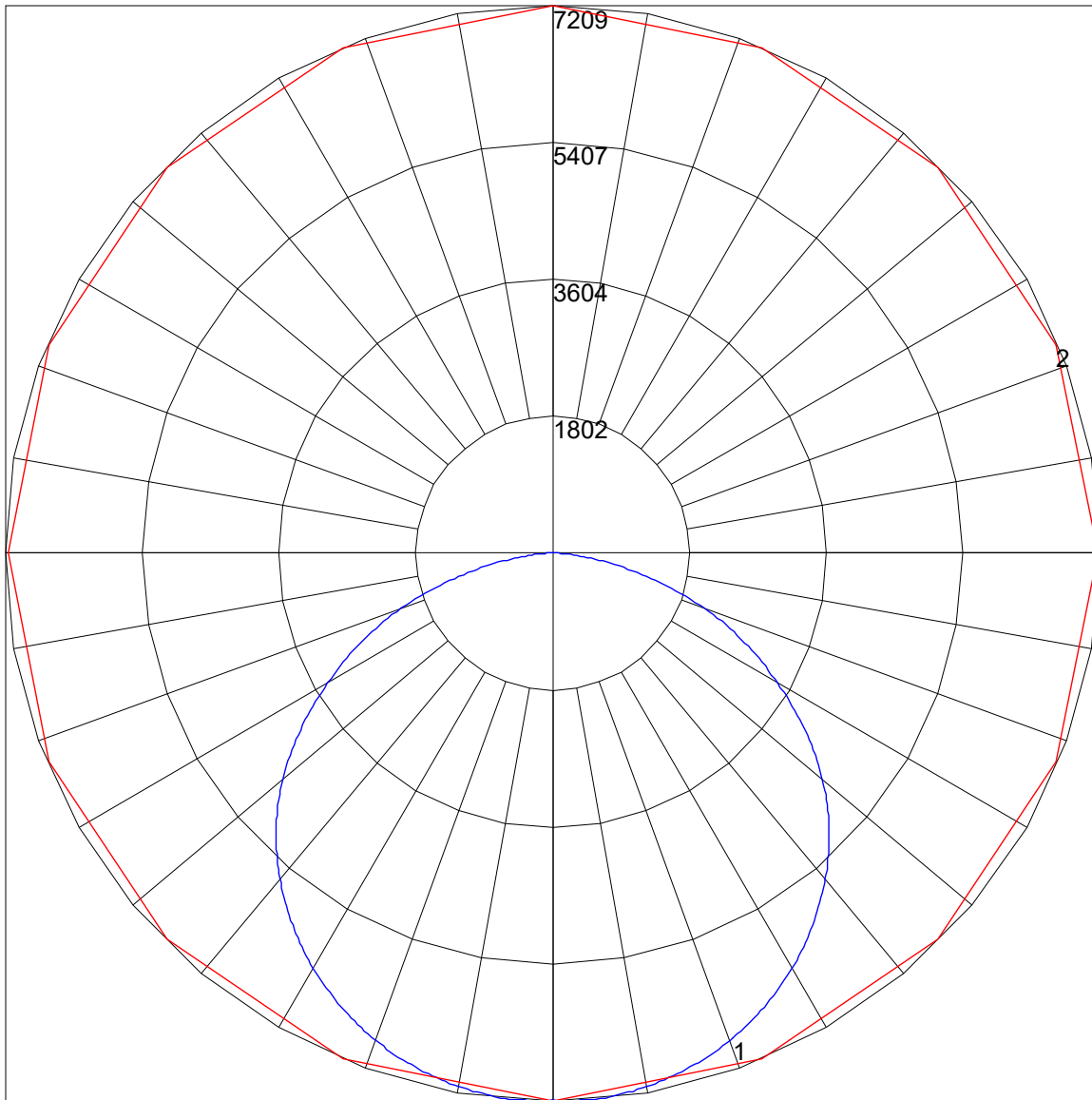
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 23.3 | 25.0 | 23.7 | 25.3 | 25.6 | 23.4 | 25.1 | 23.8 | 25.4 | 25.7 |
| | 3H | 25.1 | 26.6 | 25.5 | 26.9 | 27.3 | 25.2 | 26.7 | 25.6 | 27.1 | 27.4 |
| | 4H | 25.7 | 27.1 | 26.1 | 27.5 | 27.8 | 25.8 | 27.2 | 26.2 | 27.6 | 28.0 |
| | 6H | 26.1 | 27.4 | 26.5 | 27.8 | 28.2 | 26.2 | 27.5 | 26.6 | 27.9 | 28.3 |
| | 8H | 26.2 | 27.4 | 26.6 | 27.8 | 28.2 | 26.3 | 27.6 | 26.8 | 28.0 | 28.4 |
| | 12H | 26.2 | 27.4 | 26.6 | 27.8 | 28.2 | 26.4 | 27.6 | 26.8 | 28.0 | 28.4 |
| 4H | 2H | 24.0 | 25.4 | 24.4 | 25.7 | 26.1 | 24.1 | 25.5 | 24.5 | 25.8 | 26.2 |
| | 3H | 25.9 | 27.1 | 26.3 | 27.5 | 27.9 | 26.0 | 27.2 | 26.4 | 27.6 | 28.0 |
| | 4H | 26.7 | 27.7 | 27.1 | 28.1 | 28.6 | 26.7 | 27.8 | 27.2 | 28.2 | 28.6 |
| | 6H | 27.2 | 28.1 | 27.6 | 28.5 | 29.0 | 27.2 | 28.2 | 27.7 | 28.6 | 29.1 |
| | 8H | 27.3 | 28.1 | 27.7 | 28.6 | 29.1 | 27.4 | 28.2 | 27.8 | 28.7 | 29.1 |
| | 12H | 27.3 | 28.1 | 27.8 | 28.6 | 29.1 | 27.4 | 28.2 | 27.9 | 28.7 | 29.2 |
| 8H | 4H | 26.9 | 27.8 | 27.4 | 28.2 | 28.7 | 27.0 | 27.9 | 27.4 | 28.3 | 28.8 |
| | 6H | 27.5 | 28.2 | 28.0 | 28.7 | 29.2 | 27.6 | 28.3 | 28.1 | 28.8 | 29.2 |
| | 8H | 27.6 | 28.3 | 28.2 | 28.8 | 29.3 | 27.7 | 28.4 | 28.2 | 28.9 | 29.4 |
| | 12H | 27.8 | 28.3 | 28.3 | 28.8 | 29.4 | 27.9 | 28.4 | 28.4 | 28.9 | 29.5 |
| 12H | 4H | 26.9 | 27.7 | 27.4 | 28.2 | 28.7 | 27.0 | 27.8 | 27.5 | 28.3 | 28.7 |
| | 6H | 27.5 | 28.2 | 28.0 | 28.6 | 29.2 | 27.6 | 28.2 | 28.1 | 28.7 | 29.2 |
| | 8H | 27.7 | 28.3 | 28.2 | 28.8 | 29.4 | 27.8 | 28.4 | 28.3 | 28.9 | 29.4 |

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 7208.699 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)