



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 LW UV FR 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 8 LW UV FR 940

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,
[MORE] translucent curved plastic enclosure.

[LAMP] 112 white LEDs on four LS3872A LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver labeled as 640mA

[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 | 4369 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 153 |
| Total Luminaire Watts | 28.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 8.00 ft |
| Luminous Width (90-270) | 0.38 ft |
| Luminous Height | 0.06 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4638 | 4453 | 4426 |
| 55 | 4056 | 4048 | 4065 |
| 65 | 3278 | 3549 | 3589 |
| 75 | 2407 | 3047 | 3038 |
| 85 | 1453 | 2869 | 2665 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 543.24 | N.A. | 12.40 |
| 0-30 | 1155.26 | N.A. | 26.40 |
| 0-40 | 1891.61 | N.A. | 43.30 |
| 0-60 | 3315.87 | N.A. | 75.90 |
| 0-80 | 4133.43 | N.A. | 94.60 |
| 0-90 | 4291.43 | N.A. | 98.20 |
| 10-90 | 4151.15 | N.A. | 95.00 |
| 20-40 | 1348.37 | N.A. | 30.90 |
| 20-50 | 2103.93 | N.A. | 48.20 |
| 40-70 | 1927.69 | N.A. | 44.10 |
| 60-80 | 817.56 | N.A. | 18.70 |
| 70-80 | 314.12 | N.A. | 7.20 |
| 80-90 | 158.00 | N.A. | 3.60 |
| 90-110 | 77.89 | N.A. | 1.80 |
| 90-120 | 78.04 | N.A. | 1.80 |
| 90-130 | 78.04 | N.A. | 1.80 |
| 90-150 | 78.04 | N.A. | 1.80 |
| 90-180 | 78.04 | N.A. | 1.80 |
| 110-180 | 0.16 | N.A. | 0.00 |
| 0-180 | 4369.47 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 140.28 |
| 10-20 | 402.96 |
| 20-30 | 612.02 |
| 30-40 | 736.36 |
| 40-50 | 755.56 |
| 50-60 | 668.70 |
| 60-70 | 503.43 |
| 70-80 | 314.12 |
| 80-90 | 158.00 |
| 90-100 | 63.33 |
| 100-110 | 14.55 |
| 110-120 | 0.16 |
| 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 81 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 83 | 78 | 73 | 80 | 75 | 71 | 76 | 73 | 69 | 67 |
| 3 | 89 | 78 | 70 | 63 | 86 | 77 | 69 | 63 | 73 | 67 | 61 | 70 | 65 | 60 | 67 | 63 | 59 | 56 |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 48 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 36 | 31 | 42 | 36 | 31 | 41 | 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 | 26 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

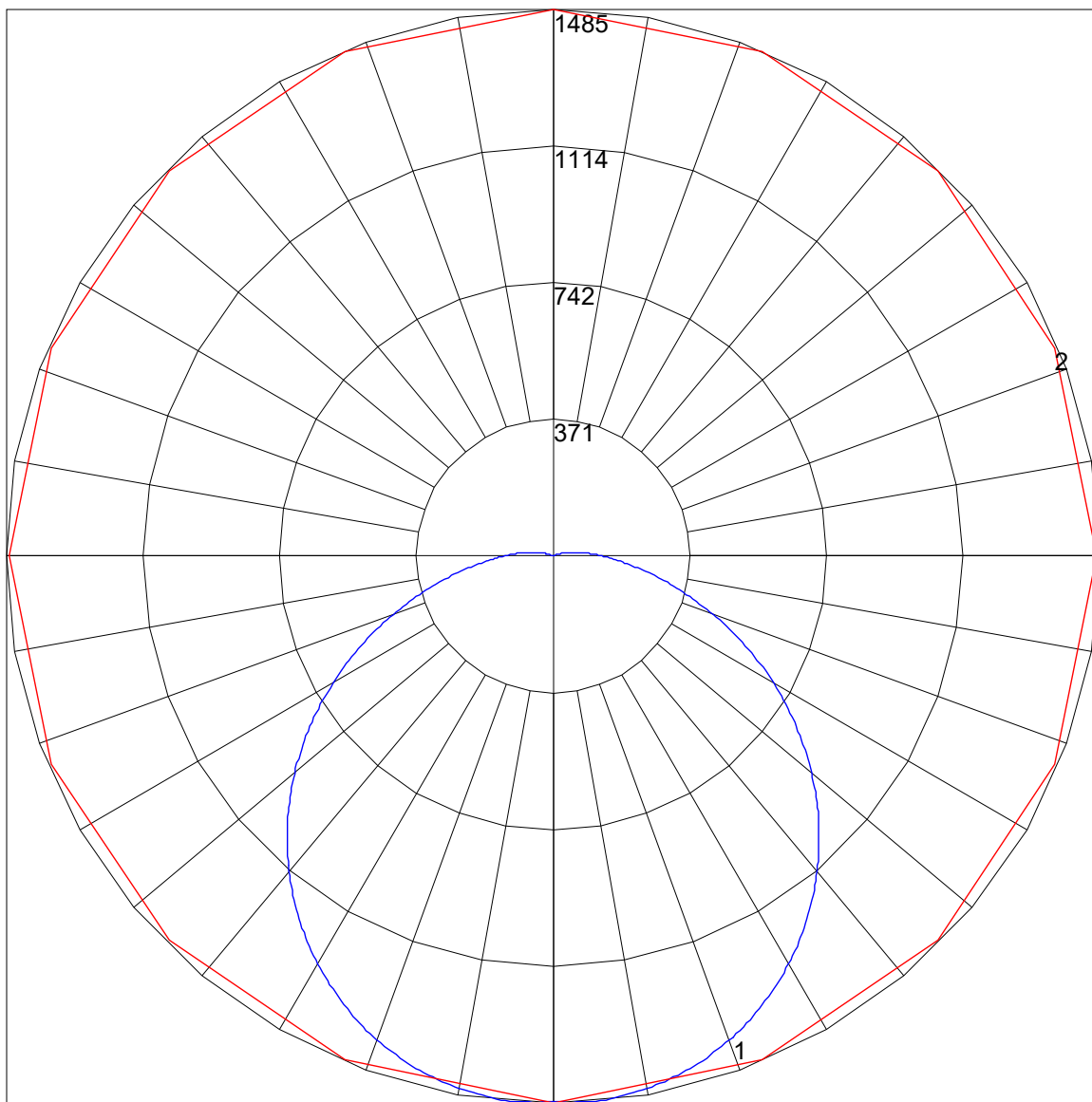
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UGR TABLE - CORRECTED

| 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 | 15.7 | 17.3 | 16.1 | 17.7 | 18.0 | 17.4 | 19.0 | 17.8 | 19.4 | 19.7 |
| | 3H | 17.0 | 18.5 | 17.4 | 18.8 | 19.2 | 19.4 | 20.9 | 19.8 | 21.2 | 21.6 |
| | 4H | 17.4 | 18.8 | 17.8 | 19.2 | 19.6 | 20.2 | 21.6 | 20.7 | 22.0 | 22.4 |
| | 6H | 17.6 | 18.9 | 18.1 | 19.3 | 19.8 | 21.0 | 22.3 | 21.5 | 22.7 | 23.2 |
| | 8H | 17.7 | 18.9 | 18.1 | 19.3 | 19.8 | 21.4 | 22.7 | 21.9 | 23.1 | 23.5 |
| | 12H | 17.7 | 18.9 | 18.2 | 19.3 | 19.8 | 21.8 | 23.0 | 22.3 | 23.4 | 23.9 |
| 4H | 2H | 16.5 | 17.9 | 17.0 | 18.3 | 18.7 | 17.9 | 19.3 | 18.3 | 19.6 | 20.1 |
| | 3H | 18.1 | 19.3 | 18.5 | 19.7 | 20.1 | 20.1 | 21.3 | 20.5 | 21.7 | 22.1 |
| | 4H | 18.6 | 19.7 | 19.1 | 20.1 | 20.6 | 21.1 | 22.2 | 21.6 | 22.6 | 23.1 |
| | 6H | 19.0 | 19.9 | 19.4 | 20.4 | 20.9 | 22.1 | 23.0 | 22.6 | 23.5 | 24.0 |
| | 8H | 19.0 | 19.9 | 19.5 | 20.4 | 20.9 | 22.5 | 23.4 | 23.0 | 23.9 | 24.4 |
| | 12H | 19.1 | 19.9 | 19.6 | 20.4 | 20.9 | 23.1 | 23.8 | 23.6 | 24.4 | 24.9 |
| 8H | 4H | 19.2 | 20.0 | 19.7 | 20.5 | 21.0 | 21.3 | 22.2 | 21.8 | 22.7 | 23.2 |
| | 6H | 19.7 | 20.4 | 20.2 | 20.9 | 21.5 | 22.5 | 23.2 | 23.0 | 23.7 | 24.3 |
| | 8H | 19.9 | 20.5 | 20.4 | 21.1 | 21.6 | 23.1 | 23.7 | 23.6 | 24.3 | 24.8 |
| | 12H | 20.0 | 20.6 | 20.5 | 21.1 | 21.7 | 23.7 | 24.3 | 24.3 | 24.8 | 25.4 |
| 12H | 4H | 19.3 | 20.1 | 19.8 | 20.6 | 21.1 | 21.3 | 22.1 | 21.9 | 22.7 | 23.2 |
| | 6H | 19.9 | 20.6 | 20.5 | 21.1 | 21.7 | 22.6 | 23.2 | 23.1 | 23.7 | 24.3 |
| | 8H | 20.2 | 20.7 | 20.7 | 21.3 | 21.9 | 23.2 | 23.8 | 23.7 | 24.3 | 24.9 |

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 1484.828 Located At Horizontal Angle = 90, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)