



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 24 ML UV FA 930.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-007A (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 24 ML UV FA 930

[LUMINAIRE] Retrofit kit installed in an A.L.P. EL-2x4-23-2 2x4 housing,

[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.

[LAMP] 96 white LEDs, two LS3873A7_3500_90R 3500K 48 LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 660mA

[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 | 4799 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 142 |
| Total Luminaire Watts | 33.7 |
| 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 |
| Luminous Length (0-180) | 3.75 ft |
| Luminous Width (90-270) | 1.75 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2279 | 2480 | 2677 |
| 55 | 2093 | 2420 | 2744 |
| 65 | 1875 | 2403 | 2911 |
| 75 | 1573 | 2466 | 3256 |
| 85 | 1062 | 2164 | 2245 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 604.79 | N.A. | 12.60 |
| 0-30 | 1276.45 | N.A. | 26.60 |
| 0-40 | 2077.01 | N.A. | 43.30 |
| 0-60 | 3661.37 | N.A. | 76.30 |
| 0-80 | 4680.67 | N.A. | 97.50 |
| 0-90 | 4799.37 | N.A. | 100.00 |
| 10-90 | 4642.24 | N.A. | 96.70 |
| 20-40 | 1472.22 | N.A. | 30.70 |
| 20-50 | 2298.45 | N.A. | 47.90 |
| 40-70 | 2197.24 | N.A. | 45.80 |
| 60-80 | 1019.3 | N.A. | 21.20 |
| 70-80 | 406.41 | N.A. | 8.50 |
| 80-90 | 118.70 | N.A. | 2.50 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 4799.37 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 157.13 |
| 10-20 | 447.66 |
| 20-30 | 671.67 |
| 30-40 | 800.56 |
| 40-50 | 826.23 |
| 50-60 | 758.13 |
| 60-70 | 612.89 |
| 70-80 | 406.41 |
| 80-90 | 118.70 |
| 90-100 | 0.00 |
| 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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 88 | 81 | 75 | 84 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 82 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 57 | 51 | 61 | 55 | 51 | 48 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 46 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 37 |
| 7 | 64 | 50 | 41 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 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 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 |

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UGR TABLE - CORRECTED

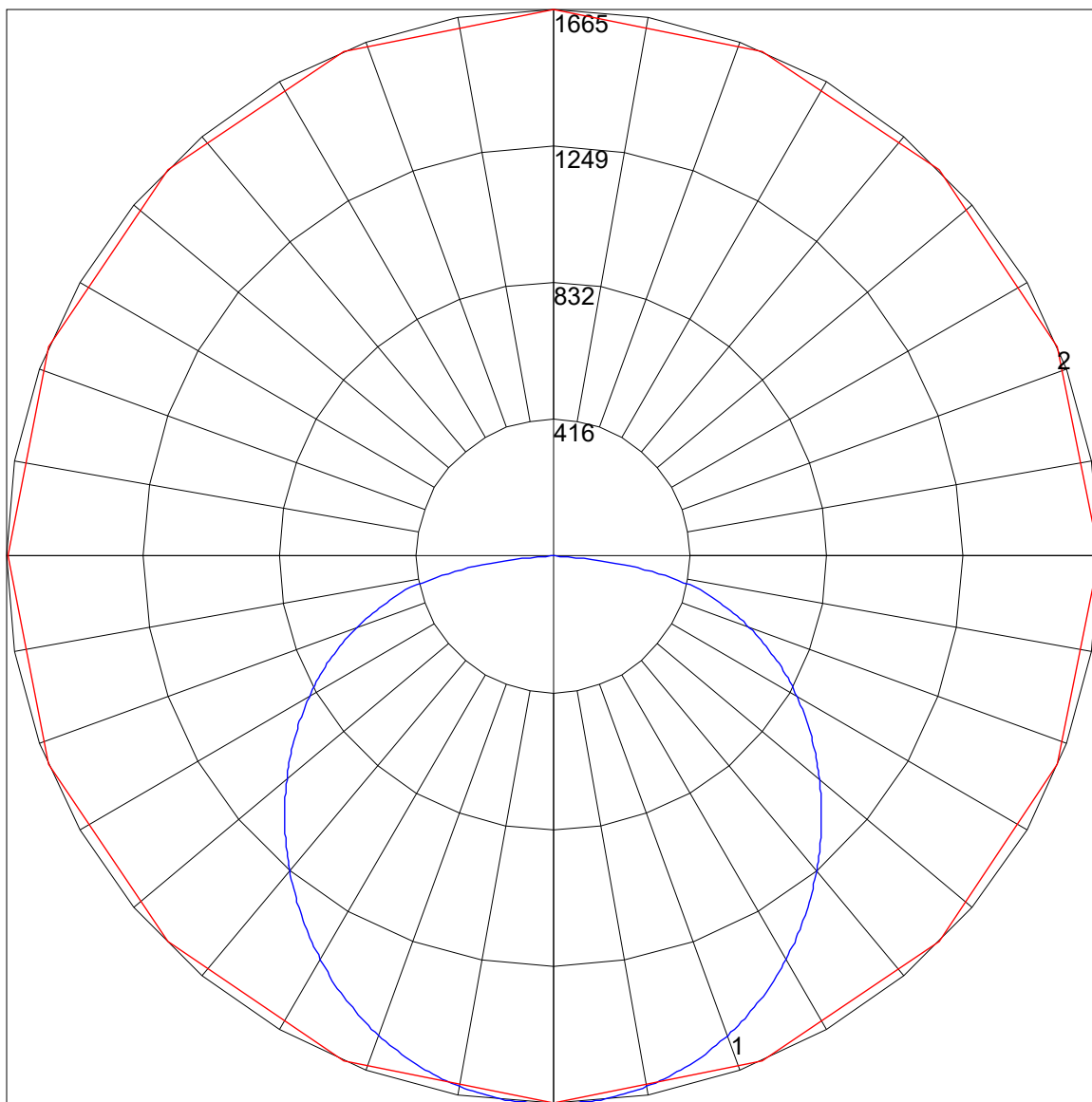
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 14.4 | 16.0 | 14.7 | 16.4 | 16.7 | 16.0 | 17.7 | 16.4 | 18.0 | 18.3 |
| | 3H | 16.1 | 17.6 | 16.5 | 17.9 | 18.3 | 18.4 | 19.9 | 18.8 | 20.2 | 20.6 |
| | 4H | 16.7 | 18.2 | 17.1 | 18.5 | 18.9 | 19.4 | 20.9 | 19.8 | 21.2 | 21.6 |
| | 6H | 17.2 | 18.5 | 17.6 | 18.9 | 19.3 | 20.4 | 21.7 | 20.8 | 22.1 | 22.4 |
| | 8H | 17.3 | 18.6 | 17.7 | 19.0 | 19.4 | 20.7 | 21.9 | 21.1 | 22.3 | 22.7 |
| | 12H | 17.4 | 18.6 | 17.8 | 19.0 | 19.4 | 20.8 | 22.0 | 21.2 | 22.4 | 22.8 |
| 4H | 2H | 15.3 | 16.7 | 15.7 | 17.1 | 17.4 | 16.6 | 18.0 | 16.9 | 18.3 | 18.7 |
| | 3H | 17.3 | 18.5 | 17.7 | 18.9 | 19.3 | 19.2 | 20.4 | 19.6 | 20.8 | 21.2 |
| | 4H | 18.0 | 19.1 | 18.5 | 19.5 | 20.0 | 20.4 | 21.5 | 20.9 | 21.9 | 22.4 |
| | 6H | 18.6 | 19.6 | 19.0 | 20.0 | 20.5 | 21.5 | 22.5 | 22.0 | 22.9 | 23.4 |
| | 8H | 18.8 | 19.7 | 19.3 | 20.1 | 20.6 | 21.9 | 22.8 | 22.4 | 23.2 | 23.7 |
| | 12H | 18.9 | 19.7 | 19.4 | 20.2 | 20.7 | 22.1 | 22.9 | 22.6 | 23.4 | 23.9 |
| 8H | 4H | 18.7 | 19.6 | 19.2 | 20.0 | 20.5 | 20.7 | 21.6 | 21.2 | 22.1 | 22.5 |
| | 6H | 19.5 | 20.2 | 19.9 | 20.7 | 21.2 | 22.0 | 22.8 | 22.5 | 23.3 | 23.7 |
| | 8H | 19.7 | 20.4 | 20.2 | 20.9 | 21.4 | 22.5 | 23.1 | 23.0 | 23.7 | 24.1 |
| | 12H | 19.9 | 20.5 | 20.4 | 21.0 | 21.6 | 22.8 | 23.4 | 23.3 | 23.9 | 24.4 |
| 12H | 4H | 18.8 | 19.6 | 19.3 | 20.1 | 20.6 | 20.8 | 21.6 | 21.2 | 22.1 | 22.5 |
| | 6H | 19.7 | 20.4 | 20.2 | 20.8 | 21.3 | 22.1 | 22.8 | 22.6 | 23.2 | 23.8 |
| | 8H | 20.0 | 20.6 | 20.5 | 21.1 | 21.7 | 22.6 | 23.2 | 23.1 | 23.7 | 24.2 |

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1664.703 Located At Horizontal Angle = 90, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)