



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 MD UV FA 935.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-017 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 14 MD UV FA 935

[LUMINAIRE] Retrofit kit installed in an A.L.P. EF-1x4-2L-23GA 1x4 housing,

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

[LAMP] 96 white LEDs, two LS3873A7_3500_90R 3500K 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 | 4765 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| 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) | 0.75 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5674 | 6091 | 6474 |
| 55 | 5245 | 5818 | 6146 |
| 65 | 4729 | 5283 | 5441 |
| 75 | 3972 | 4313 | 4090 |
| 85 | 2618 | 1571 | 803 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 641.16 | N.A. | 13.50 |
| 0-30 | 1353.24 | N.A. | 28.40 |
| 0-40 | 2200.72 | N.A. | 46.20 |
| 0-60 | 3839.4 | N.A. | 80.60 |
| 0-80 | 4707.92 | N.A. | 98.80 |
| 0-90 | 4764.64 | N.A. | 100.00 |
| 10-90 | 4598.07 | N.A. | 96.50 |
| 20-40 | 1559.56 | N.A. | 32.70 |
| 20-50 | 2427.51 | N.A. | 50.90 |
| 40-70 | 2206.21 | N.A. | 46.30 |
| 60-80 | 868.52 | N.A. | 18.20 |
| 70-80 | 300.99 | N.A. | 6.30 |
| 80-90 | 56.72 | N.A. | 1.20 |
| 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 | 4764.64 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 166.58 |
| 10-20 | 474.58 |
| 20-30 | 712.08 |
| 30-40 | 847.48 |
| 40-50 | 867.95 |
| 50-60 | 770.73 |
| 60-70 | 567.53 |
| 70-80 | 300.99 |
| 80-90 | 56.72 |
| 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 | 109 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 74 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 68 | 63 | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

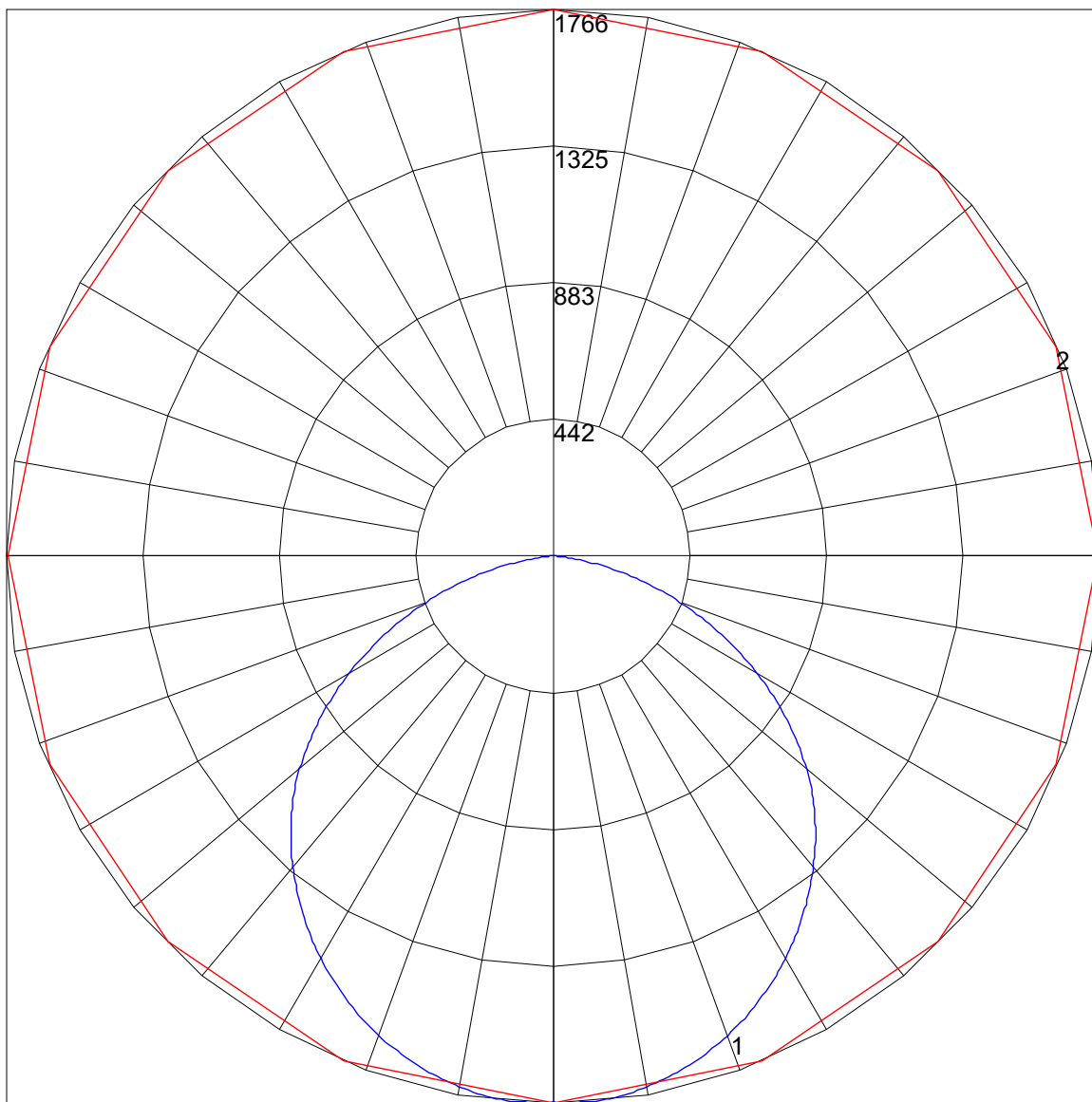
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 17.7 | 19.4 | 18.1 | 19.7 | 20.0 | 18.6 | 20.2 | 18.9 | 20.5 | 20.8 |
| | 3H | 19.4 | 20.9 | 19.8 | 21.2 | 21.6 | 20.2 | 21.7 | 20.6 | 22.0 | 22.4 |
| | 4H | 20.1 | 21.4 | 20.5 | 21.8 | 22.2 | 20.7 | 22.1 | 21.1 | 22.4 | 22.8 |
| | 6H | 20.5 | 21.8 | 20.9 | 22.1 | 22.5 | 21.0 | 22.3 | 21.4 | 22.6 | 23.0 |
| | 8H | 20.6 | 21.8 | 21.0 | 22.2 | 22.6 | 21.0 | 22.2 | 21.5 | 22.6 | 23.0 |
| | 12H | 20.7 | 21.8 | 21.1 | 22.2 | 22.6 | 21.0 | 22.2 | 21.4 | 22.6 | 23.0 |
| 4H | 2H | 18.5 | 19.8 | 18.9 | 20.2 | 20.6 | 19.1 | 20.5 | 19.5 | 20.9 | 21.2 |
| | 3H | 20.4 | 21.5 | 20.8 | 21.9 | 22.3 | 21.0 | 22.1 | 21.4 | 22.5 | 22.9 |
| | 4H | 21.1 | 22.2 | 21.6 | 22.6 | 23.0 | 21.6 | 22.6 | 22.0 | 23.1 | 23.5 |
| | 6H | 21.7 | 22.6 | 22.1 | 23.0 | 23.5 | 22.0 | 22.9 | 22.4 | 23.3 | 23.8 |
| | 8H | 21.8 | 22.7 | 22.3 | 23.1 | 23.6 | 22.0 | 22.9 | 22.5 | 23.3 | 23.8 |
| | 12H | 21.9 | 22.7 | 22.4 | 23.1 | 23.6 | 22.0 | 22.8 | 22.5 | 23.3 | 23.7 |
| 8H | 4H | 21.4 | 22.3 | 21.9 | 22.7 | 23.2 | 21.8 | 22.7 | 22.3 | 23.1 | 23.6 |
| | 6H | 22.1 | 22.8 | 22.6 | 23.3 | 23.7 | 22.3 | 23.0 | 22.8 | 23.5 | 24.0 |
| | 8H | 22.3 | 22.9 | 22.8 | 23.4 | 23.9 | 22.4 | 23.0 | 22.9 | 23.5 | 24.0 |
| | 12H | 22.4 | 23.0 | 22.9 | 23.5 | 24.0 | 22.4 | 22.9 | 22.9 | 23.4 | 24.0 |
| 12H | 4H | 21.4 | 22.2 | 21.9 | 22.7 | 23.1 | 21.9 | 22.6 | 22.3 | 23.1 | 23.6 |
| | 6H | 22.1 | 22.7 | 22.6 | 23.2 | 23.7 | 22.3 | 23.0 | 22.8 | 23.4 | 24.0 |
| | 8H | 22.3 | 22.9 | 22.8 | 23.4 | 23.9 | 22.4 | 23.0 | 22.9 | 23.5 | 24.0 |

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1766.081 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.)