



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SL UV FA 950.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-030 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/28/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFL G2 2R 24 SL UV FA 950

[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,

[MORE] two frosted linear ribbed plastic enclosures.

[LAMP] 192 white LEDs, four LS3873A7 5000_90R 5000K LED boards

[BALLAST] One ULT D700C20UNVPW-C LED driver programmed at 390mA

[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 | 2931 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 145 |
| Total Luminaire Watts | 20.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.85 ft |
| Luminous Width (90-270) | 1.85 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1357 | 1443 | 1519 |
| 55 | 1256 | 1385 | 1496 |
| 65 | 1136 | 1313 | 1455 |
| 75 | 953 | 1180 | 1303 |
| 85 | 602 | 664 | 495 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 384.39 | N.A. | 13.10 |
| 0-30 | 811.55 | N.A. | 27.70 |
| 0-40 | 1320.15 | N.A. | 45.00 |
| 0-60 | 2312.13 | N.A. | 78.90 |
| 0-80 | 2884.46 | N.A. | 98.40 |
| 0-90 | 2931.41 | N.A. | 100.00 |
| 10-90 | 2831.57 | N.A. | 96.60 |
| 20-40 | 935.76 | N.A. | 31.90 |
| 20-50 | 1457.6 | N.A. | 49.70 |
| 40-70 | 1354.1 | N.A. | 46.20 |
| 60-80 | 572.34 | N.A. | 19.50 |
| 70-80 | 210.21 | N.A. | 7.20 |
| 80-90 | 46.95 | N.A. | 1.60 |
| 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 | 2931.41 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 99.85 |
| 10-20 | 284.55 |
| 20-30 | 427.15 |
| 30-40 | 508.61 |
| 40-50 | 521.84 |
| 50-60 | 470.13 |
| 60-70 | 362.13 |
| 70-80 | 210.21 |
| 80-90 | 46.95 |
| 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 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

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UGR TABLE - CORRECTED

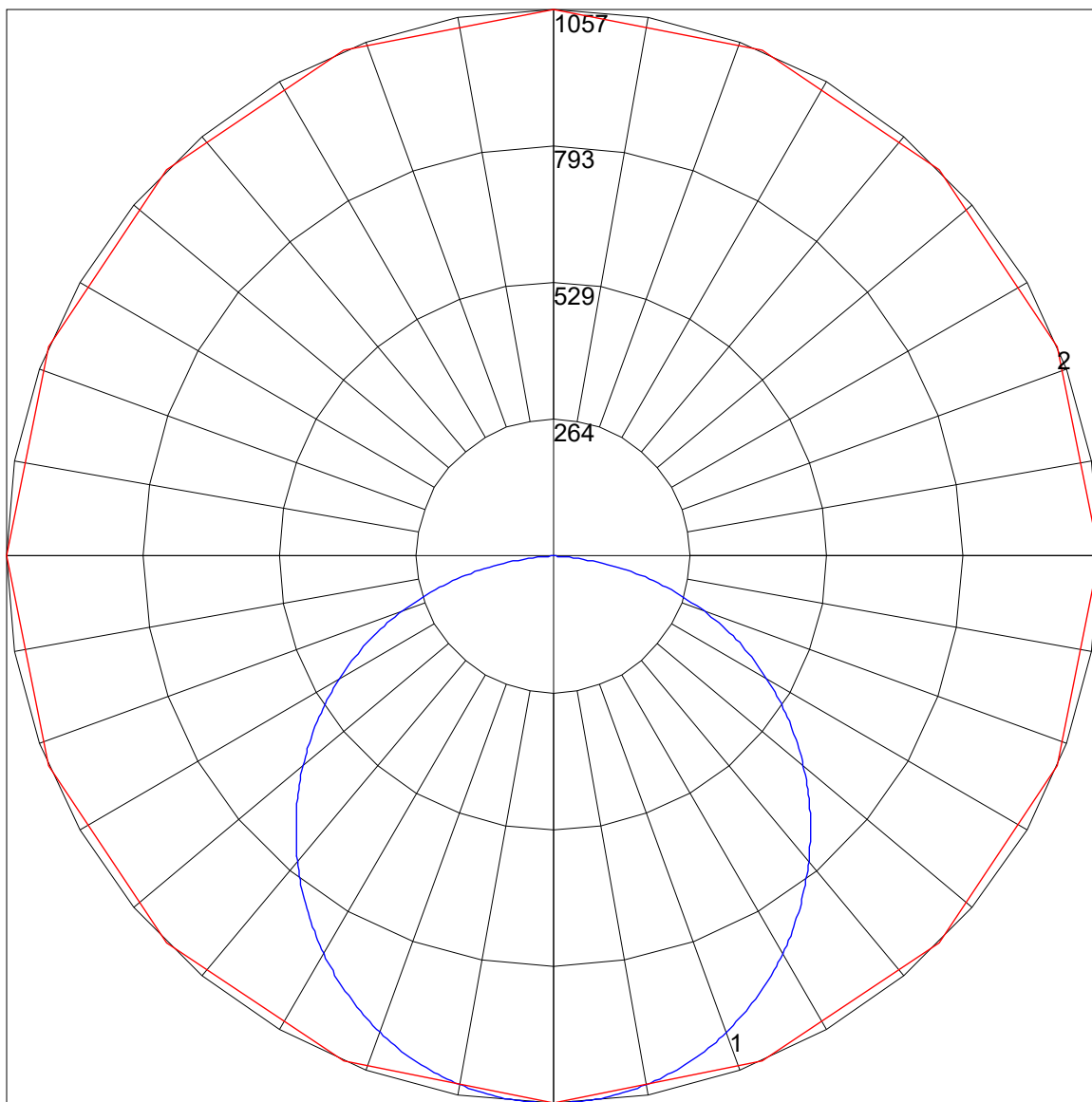
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 12.7 | 14.3 | 13.1 | 14.7 | 15.0 | 13.7 | 15.3 | 14.1 | 15.6 | 16.0 |
| | 3H | 14.4 | 15.9 | 14.8 | 16.2 | 16.6 | 15.7 | 17.2 | 16.0 | 17.5 | 17.8 |
| | 4H | 15.1 | 16.4 | 15.5 | 16.8 | 17.2 | 16.4 | 17.8 | 16.8 | 18.2 | 18.5 |
| | 6H | 15.5 | 16.8 | 15.9 | 17.1 | 17.5 | 16.9 | 18.2 | 17.3 | 18.6 | 19.0 |
| | 8H | 15.6 | 16.8 | 16.0 | 17.2 | 17.6 | 17.0 | 18.3 | 17.4 | 18.7 | 19.1 |
| | 12H | 15.6 | 16.8 | 16.1 | 17.2 | 17.6 | 17.1 | 18.2 | 17.5 | 18.6 | 19.1 |
| 4H | 2H | 13.5 | 14.9 | 13.9 | 15.2 | 15.6 | 14.3 | 15.7 | 14.7 | 16.0 | 16.4 |
| | 3H | 15.4 | 16.6 | 15.9 | 17.0 | 17.4 | 16.5 | 17.6 | 16.9 | 18.0 | 18.4 |
| | 4H | 16.2 | 17.2 | 16.6 | 17.7 | 18.1 | 17.3 | 18.4 | 17.8 | 18.8 | 19.3 |
| | 6H | 16.7 | 17.7 | 17.2 | 18.1 | 18.6 | 18.0 | 18.9 | 18.4 | 19.4 | 19.8 |
| | 8H | 16.9 | 17.7 | 17.3 | 18.2 | 18.7 | 18.1 | 19.0 | 18.6 | 19.5 | 19.9 |
| | 12H | 17.0 | 17.8 | 17.4 | 18.2 | 18.7 | 18.2 | 19.0 | 18.7 | 19.5 | 19.9 |
| 8H | 4H | 16.6 | 17.5 | 17.0 | 17.9 | 18.4 | 17.6 | 18.5 | 18.1 | 18.9 | 19.4 |
| | 6H | 17.3 | 18.0 | 17.8 | 18.5 | 18.9 | 18.4 | 19.1 | 18.9 | 19.6 | 20.1 |
| | 8H | 17.5 | 18.1 | 18.0 | 18.6 | 19.1 | 18.6 | 19.2 | 19.1 | 19.7 | 20.2 |
| | 12H | 17.6 | 18.2 | 18.1 | 18.7 | 19.3 | 18.7 | 19.2 | 19.2 | 19.7 | 20.3 |
| 12H | 4H | 16.6 | 17.4 | 17.1 | 17.9 | 18.4 | 17.6 | 18.4 | 18.1 | 18.9 | 19.4 |
| | 6H | 17.4 | 18.0 | 17.9 | 18.5 | 19.0 | 18.4 | 19.1 | 18.9 | 19.5 | 20.1 |
| | 8H | 17.6 | 18.2 | 18.1 | 18.7 | 19.2 | 18.7 | 19.2 | 19.2 | 19.7 | 20.3 |

Maximum UGR = 20.3

POLAR GRAPH



Maximum Candela = 1057.05 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.)