**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : FFL 2R G2 22 MD HO UV FA 950.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LLIA001588-035A (s)
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 3/4/2022
[MANUFAC] Lumen Focus, LLC
[LUMCAT] FFL 2R G2 22 MD HO UV FA 950
[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,
[MORE] two optical compartments each with one frosted linear ribbed plastic enclosure.
[LAMP] 128 white LEDs, two LS3872A8_5000_90R 5000K LED boards
[BALLAST] One ULT D15CC55UNVPW-C LED driver programmed at 1140mA
[OTHER] 120.0Vac, 60.01Hz
[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 | 7967 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 136 |
| Total Luminaire Watts | 58.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.85 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 | 7592 | 8139 | 8682 |
| 55 | 6998 | 7776 | 8570 |
| 65 | 6296 | 7326 | 8341 |
| 75 | 5252 | 6505 | 7458 |
| 85 | 3313 | 3491 | 3135 |

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## ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 1053.43 | N.A. | 13.20 |
| 0-30 | 2220.7 | N.A. | 27.90 |
| 0-40 | 3606.9 | N.A. | 45.30 |
| 0-60 | 6300.37 | N.A. | 79.10 |
| 0-80 | 7841.41 | N.A. | 98.40 |
| 0-90 | 7966.64 | N.A. | 100.00 |
| 10-90 | 7692.74 | N.A. | 96.60 |
| 20-40 | 2553.47 | N.A. | 32.10 |
| 20-50 | 3972.24 | N.A. | 49.90 |
| 40-70 | 3671.39 | N.A. | 46.10 |
| 60-80 | 1541.04 | N.A. | 19.30 |
| 70-80 | 563.12 | N.A. | 7.10 |
| 80-90 | 125.23 | 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 | 7966.64 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

## ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---|---|
| 0-10 | 273.90 |
| 10-20 | 779.53 |
| 20-30 | 1167.27 |
| 30-40 | 1386.2 |
| 40-50 | 1418.77 |
| 50-60 | 1274.69 |
| 60-70 | 977.92 |
| 70-80 | 563.12 |
| 80-90 | 125.23 |
| 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 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 46 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 38 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 31 | 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 | 18.7 | 20.3 | 19.0 | 20.6 | 20.9 | 19.8 | 21.4 | 20.2 | 21.7 | 22.1 |
| | 3H | 20.4 | 21.8 | 20.7 | 22.2 | 22.5 | 21.8 | 23.3 | 22.2 | 23.6 | 23.9 |
| | 4H | 21.0 | 22.4 | 21.4 | 22.7 | 23.1 | 22.5 | 23.9 | 22.9 | 24.3 | 24.6 |
| | 6H | 21.4 | 22.7 | 21.8 | 23.0 | 23.4 | 23.0 | 24.3 | 23.4 | 24.7 | 25.1 |
| | 8H | 21.5 | 22.7 | 21.9 | 23.1 | 23.5 | 23.1 | 24.4 | 23.6 | 24.8 | 25.2 |
| | 12H | 21.5 | 22.7 | 22.0 | 23.1 | 23.5 | 23.2 | 24.3 | 23.6 | 24.7 | 25.2 |
| 4H | 2H | 19.4 | 20.8 | 19.8 | 21.2 | 21.6 | 20.3 | 21.7 | 20.7 | 22.1 | 22.5 |
| | 3H | 21.4 | 22.5 | 21.8 | 22.9 | 23.3 | 22.6 | 23.7 | 23.0 | 24.1 | 24.5 |
| | 4H | 22.1 | 23.1 | 22.5 | 23.6 | 24.0 | 23.4 | 24.5 | 23.9 | 24.9 | 25.3 |
| | 6H | 22.6 | 23.5 | 23.1 | 24.0 | 24.4 | 24.1 | 25.0 | 24.5 | 25.4 | 25.9 |
| | 8H | 22.8 | 23.6 | 23.2 | 24.1 | 24.5 | 24.2 | 25.1 | 24.7 | 25.5 | 26.0 |
| | 12H | 22.9 | 23.6 | 23.4 | 24.1 | 24.6 | 24.3 | 25.1 | 24.8 | 25.5 | 26.0 |
| 8H | 4H | 22.5 | 23.4 | 23.0 | 23.8 | 24.3 | 23.7 | 24.5 | 24.1 | 25.0 | 25.4 |
| | 6H | 23.1 | 23.9 | 23.6 | 24.4 | 24.8 | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 |
| | 8H | 23.4 | 24.0 | 23.9 | 24.5 | 25.0 | 24.6 | 25.3 | 25.1 | 25.8 | 26.3 |
| | 12H | 23.5 | 24.1 | 24.0 | 24.6 | 25.1 | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 |
| 12H | 4H | 22.6 | 23.3 | 23.0 | 23.8 | 24.3 | 23.7 | 24.5 | 24.2 | 24.9 | 25.4 |
| | 6H | 23.2 | 23.9 | 23.8 | 24.3 | 24.9 | 24.5 | 25.1 | 25.0 | 25.6 | 26.1 |
| | 8H | 23.5 | 24.1 | 24.0 | 24.5 | 25.1 | 24.7 | 25.3 | 25.2 | 25.8 | 26.3 |

Maximum UGR = 26.3

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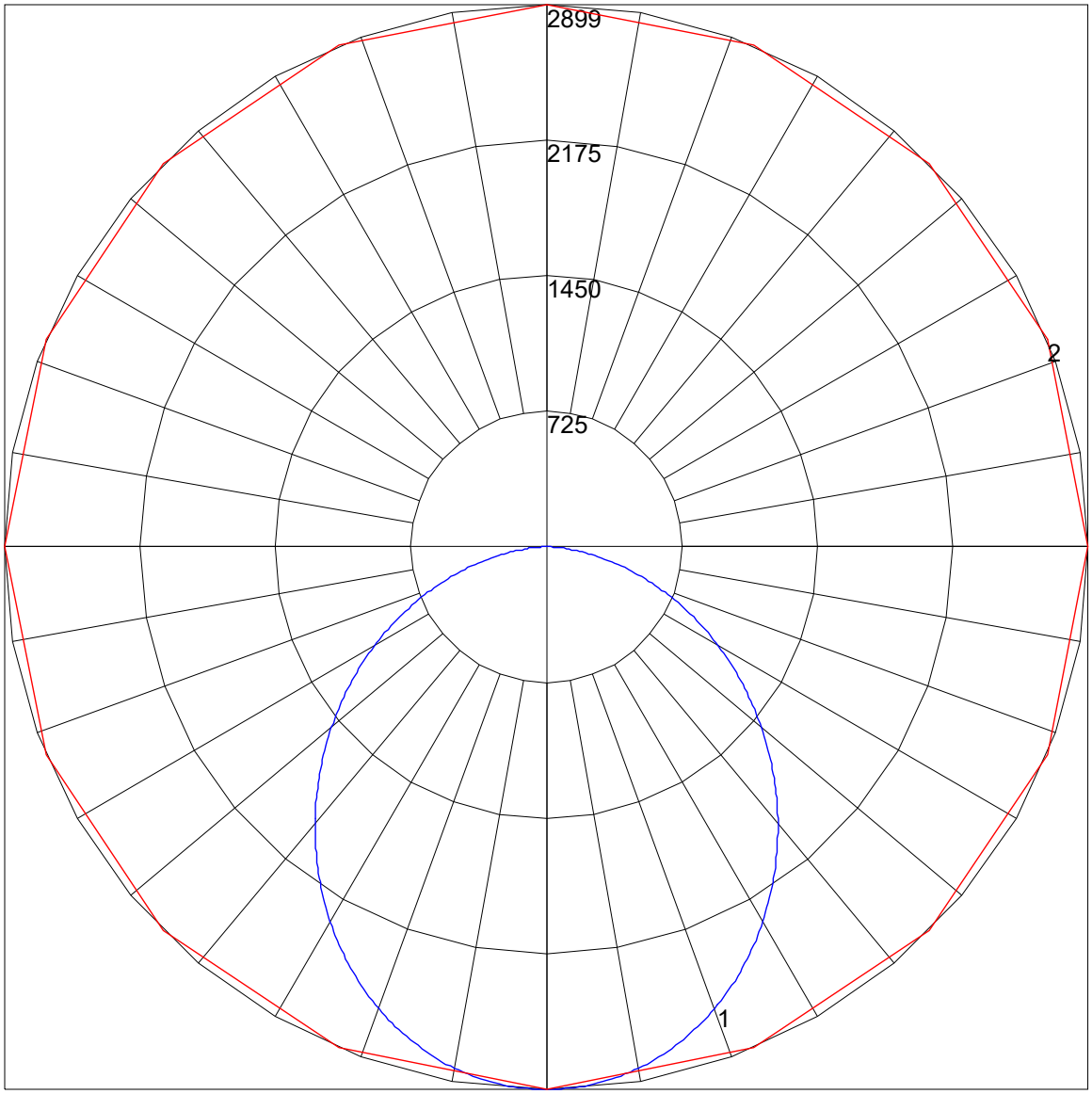
**POLAR GRAPH**




Maximum Candela = 2899.49  Located At Horizontal Angle = 0, Vertical Angle = 0
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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