**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : FFR G2 14 SEL35 UV FA 935 @500MA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LLIA001588-017 (s)
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 6/4/2024
[MANUFAC] LumenFocus, LLC
[LUMCAT] FFR G2 14 SEL35 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.
[LAMPCAT] Two LS3873A7_3500_90R 3500K 48 LED boards
[BALLAST] One KTLD-35-UV-PS650-54-VDIM-LM1 LED driver set to 500mA
[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 | 3628 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 150 |
| Total Luminaire Watts | 24.2 |
| 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 | 4320 | 4638 | 4929 |
| 55 | 3993 | 4429 | 4680 |
| 65 | 3600 | 4022 | 4143 |
| 75 | 3024 | 3284 | 3114 |
| 85 | 1993 | 1196 | 611 |

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**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 488.17 | N.A. | 13.50 |
| 0-30 | 1030.33 | N.A. | 28.40 |
| 0-40 | 1675.58 | N.A. | 46.20 |
| 0-60 | 2923.23 | N.A. | 80.60 |
| 0-80 | 3584.51 | N.A. | 98.80 |
| 0-90 | 3627.69 | N.A. | 100.00 |
| 10-90 | 3500.87 | N.A. | 96.50 |
| 20-40 | 1187.42 | N.A. | 32.70 |
| 20-50 | 1848.25 | N.A. | 50.90 |
| 40-70 | 1679.76 | N.A. | 46.30 |
| 60-80 | 661.27 | N.A. | 18.20 |
| 70-80 | 229.17 | N.A. | 6.30 |
| 80-90 | 43.19 | 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 | 3627.69 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 126.83 |
| 10-20 | 361.34 |
| 20-30 | 542.16 |
| 30-40 | 645.26 |
| 40-50 | 660.84 |
| 50-60 | 586.82 |
| 60-70 | 432.11 |
| 70-80 | 229.17 |
| 80-90 | 43.19 |
| 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 | 16.8 | 18.5 | 17.2 | 18.8 | 19.1 | 17.7 | 19.3 | 18.0 | 19.6 | 19.9 |
| | 3H | 18.5 | 20.0 | 18.9 | 20.3 | 20.7 | 19.3 | 20.8 | 19.7 | 21.1 | 21.5 |
| | 4H | 19.2 | 20.5 | 19.6 | 20.9 | 21.3 | 19.8 | 21.2 | 20.2 | 21.5 | 21.9 |
| | 6H | 19.6 | 20.9 | 20.0 | 21.2 | 21.6 | 20.1 | 21.4 | 20.5 | 21.7 | 22.1 |
| | 8H | 19.7 | 20.9 | 20.1 | 21.3 | 21.7 | 20.1 | 21.3 | 20.6 | 21.7 | 22.1 |
| | 12H | 19.8 | 20.9 | 20.2 | 21.3 | 21.7 | 20.1 | 21.3 | 20.5 | 21.7 | 22.1 |
| 4H | 2H | 17.6 | 18.9 | 18.0 | 19.3 | 19.7 | 18.2 | 19.6 | 18.6 | 19.9 | 20.3 |
| | 3H | 19.5 | 20.6 | 19.9 | 21.0 | 21.4 | 20.1 | 21.2 | 20.5 | 21.6 | 22.0 |
| | 4H | 20.2 | 21.3 | 20.7 | 21.7 | 22.1 | 20.7 | 21.7 | 21.1 | 22.2 | 22.6 |
| | 6H | 20.8 | 21.7 | 21.2 | 22.1 | 22.6 | 21.1 | 22.0 | 21.5 | 22.4 | 22.9 |
| | 8H | 20.9 | 21.8 | 21.4 | 22.2 | 22.7 | 21.1 | 22.0 | 21.6 | 22.4 | 22.9 |
| | 12H | 21.0 | 21.8 | 21.5 | 22.2 | 22.7 | 21.1 | 21.9 | 21.6 | 22.4 | 22.8 |
| 8H | 4H | 20.5 | 21.4 | 21.0 | 21.8 | 22.3 | 20.9 | 21.8 | 21.4 | 22.2 | 22.7 |
| | 6H | 21.2 | 21.9 | 21.7 | 22.4 | 22.8 | 21.4 | 22.1 | 21.9 | 22.6 | 23.1 |
| | 8H | 21.4 | 22.0 | 21.9 | 22.5 | 23.0 | 21.5 | 22.1 | 22.0 | 22.6 | 23.1 |
| | 12H | 21.5 | 22.1 | 22.0 | 22.6 | 23.1 | 21.5 | 22.0 | 22.0 | 22.5 | 23.1 |
| 12H | 4H | 20.5 | 21.3 | 21.0 | 21.8 | 22.2 | 21.0 | 21.7 | 21.4 | 22.2 | 22.7 |
| | 6H | 21.2 | 21.8 | 21.7 | 22.3 | 22.8 | 21.4 | 22.1 | 21.9 | 22.5 | 23.1 |
| | 8H | 21.4 | 22.0 | 21.9 | 22.5 | 23.0 | 21.5 | 22.1 | 22.0 | 22.6 | 23.1 |

Maximum UGR = 23.1

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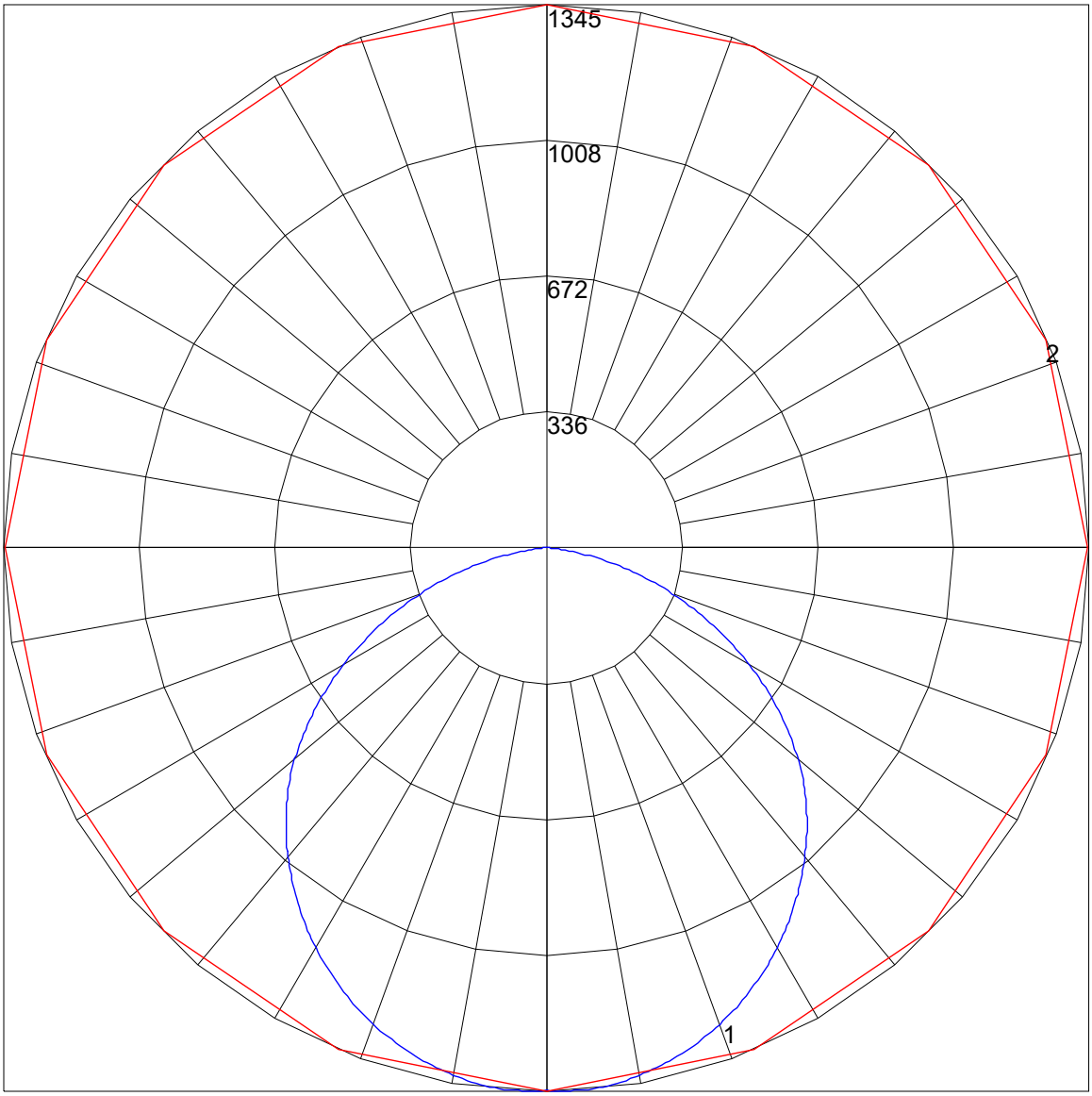
**POLAR GRAPH**




Maximum Candela = 1344.654  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.)