



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 14 SEL35 UV FA 930 @500MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-017 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFR G2 14 SEL35 UV FA 930

[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\_3000\_90R 3000K 48 LED boards

[BALLAST] One KTLD-35-JV-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                | 3612            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 149             |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 4302             | 4618              | 4909              |
| 55                  | 3977             | 4411              | 4660              |
| 65                  | 3585             | 4005              | 4125              |
| 75                  | 3012             | 3270              | 3101              |
| 85                  | 1985             | 1191              | 609               |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 486.12  | N.A.  | 13.50  |
| 0-30    | 1026.00 | N.A.  | 28.40  |
| 0-40    | 1668.55 | N.A.  | 46.20  |
| 0-60    | 2910.96 | N.A.  | 80.60  |
| 0-80    | 3569.46 | N.A.  | 98.80  |
| 0-90    | 3612.47 | N.A.  | 100.00 |
| 10-90   | 3486.17 | N.A.  | 96.50  |
| 20-40   | 1182.43 | N.A.  | 32.70  |
| 20-50   | 1840.49 | N.A.  | 50.90  |
| 40-70   | 1672.71 | N.A.  | 46.30  |
| 60-80   | 658.50  | N.A.  | 18.20  |
| 70-80   | 228.20  | N.A.  | 6.30   |
| 80-90   | 43.01   | 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   | 3612.47 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 126.29 |
| 10-20   | 359.82 |
| 20-30   | 539.88 |
| 30-40   | 642.55 |
| 40-50   | 658.06 |
| 50-60   | 584.36 |
| 60-70   | 430.29 |
| 70-80   | 228.20 |
| 80-90   | 43.01  |
| 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  | 89  | 87  | 85  |
| 2  | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 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  |

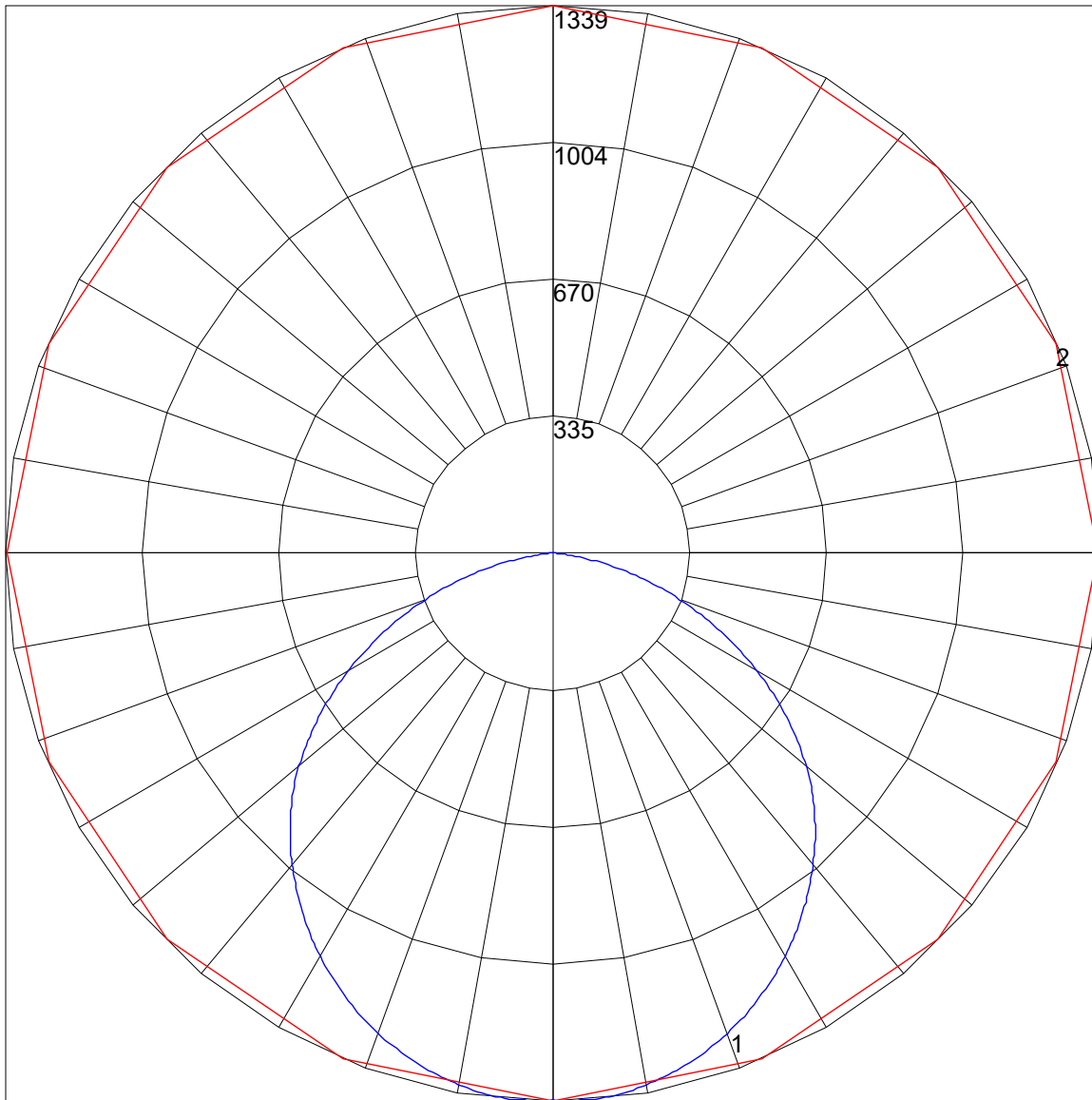
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**UGR TABLE - CORRECTED**

| 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 | 20.0 | 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

POLAR GRAPH



Maximum Candela = 1339.01 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.)