



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SEL15 UV FA 930 @200MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-030 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFL G2 2R 24 SEL15 UV FA 930

[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,  
[MORE] two frosted linear ribbed plastic enclosures.

[LAMPCAT] Four LS3873A7\_3000\_90R 3000K 48 LED boards

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 200mA

[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                | 1439            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 144             |
| Total Luminaire Watts           | 10              |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 666              | 708               | 746               |
| 55                  | 617              | 680               | 734               |
| 65                  | 557              | 645               | 714               |
| 75                  | 468              | 579               | 640               |
| 85                  | 295              | 326               | 243               |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 188.68  | N.A.  | 13.10  |
| 0-30    | 398.35  | N.A.  | 27.70  |
| 0-40    | 648.00  | N.A.  | 45.00  |
| 0-60    | 1134.92 | N.A.  | 78.90  |
| 0-80    | 1415.85 | N.A.  | 98.40  |
| 0-90    | 1438.9  | N.A.  | 100.00 |
| 10-90   | 1389.89 | N.A.  | 96.60  |
| 20-40   | 459.32  | N.A.  | 31.90  |
| 20-50   | 715.47  | N.A.  | 49.70  |
| 40-70   | 664.67  | N.A.  | 46.20  |
| 60-80   | 280.93  | N.A.  | 19.50  |
| 70-80   | 103.18  | N.A.  | 7.20   |
| 80-90   | 23.04   | 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   | 1438.9  | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 49.01  |
| 10-20   | 139.67 |
| 20-30   | 209.67 |
| 30-40   | 249.65 |
| 40-50   | 256.15 |
| 50-60   | 230.77 |
| 60-70   | 177.75 |
| 70-80   | 103.18 |
| 80-90   | 23.04  |
| 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  |

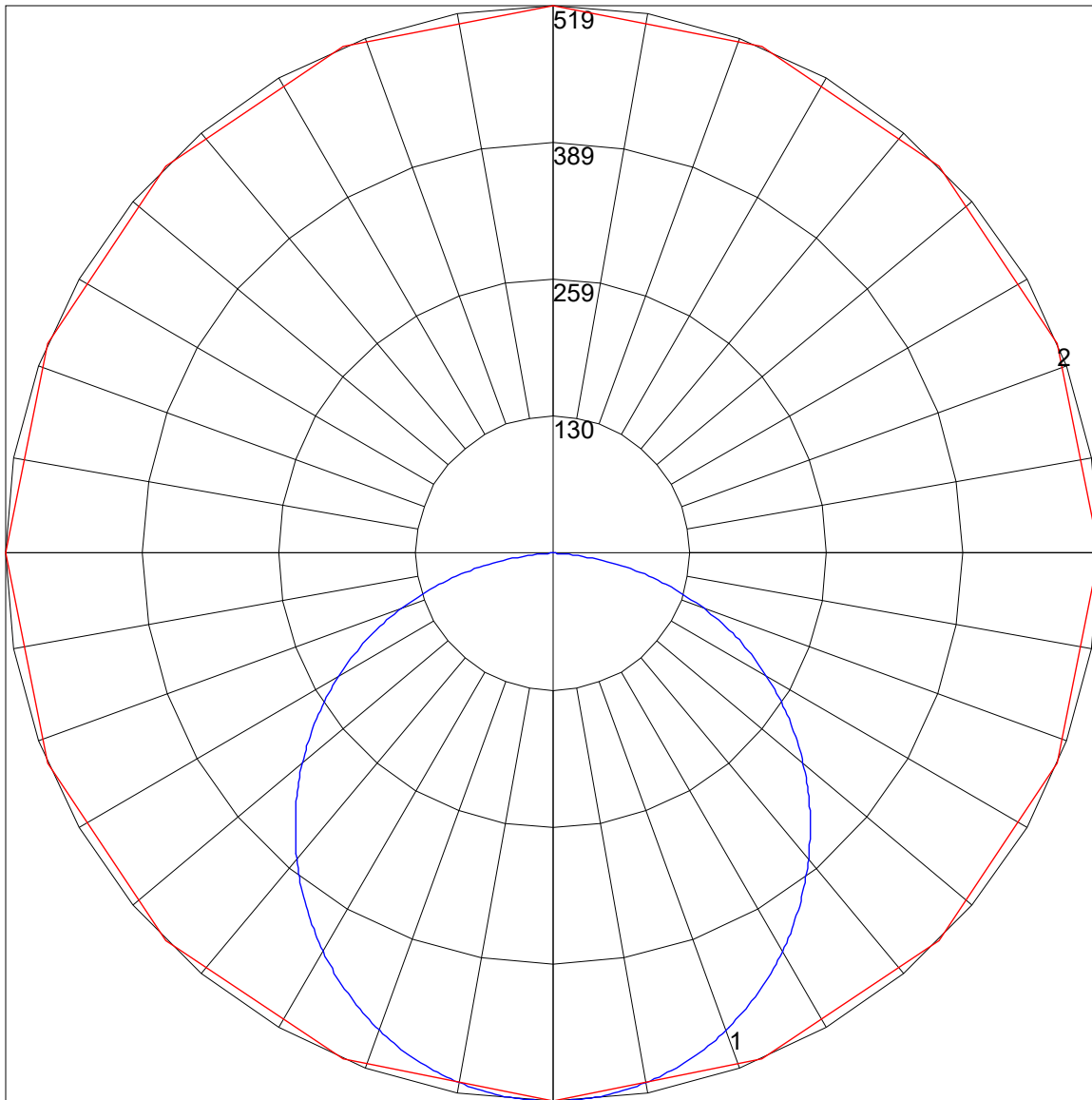
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**UGR TABLE - CORRECTED**

| 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 | 10.3                 | 11.9 | 10.7 | 12.3 | 12.6 | 11.3               | 12.9 | 11.7 | 13.2 | 13.6 |
|                | 3H   | 12.0                 | 13.5 | 12.4 | 13.8 | 14.2 | 13.3               | 14.8 | 13.6 | 15.1 | 15.4 |
|                | 4H   | 12.7                 | 14.0 | 13.1 | 14.4 | 14.8 | 14.0               | 15.4 | 14.4 | 15.8 | 16.1 |
|                | 6H   | 13.1                 | 14.4 | 13.5 | 14.7 | 15.1 | 14.5               | 15.8 | 14.9 | 16.2 | 16.6 |
|                | 8H   | 13.2                 | 14.4 | 13.6 | 14.8 | 15.2 | 14.6               | 15.9 | 15.0 | 16.3 | 16.7 |
|                | 12H  | 13.3                 | 14.4 | 13.7 | 14.8 | 15.2 | 14.7               | 15.8 | 15.1 | 16.2 | 16.7 |
| 4H             | 2H   | 11.1                 | 12.5 | 11.5 | 12.8 | 13.2 | 11.9               | 13.3 | 12.3 | 13.6 | 14.0 |
|                | 3H   | 13.0                 | 14.2 | 13.5 | 14.6 | 15.0 | 14.1               | 15.2 | 14.5 | 15.6 | 16.0 |
|                | 4H   | 13.8                 | 14.8 | 14.2 | 15.3 | 15.7 | 15.0               | 16.0 | 15.4 | 16.4 | 16.9 |
|                | 6H   | 14.3                 | 15.3 | 14.8 | 15.7 | 16.2 | 15.6               | 16.5 | 16.0 | 17.0 | 17.4 |
|                | 8H   | 14.5                 | 15.4 | 14.9 | 15.8 | 16.3 | 15.7               | 16.6 | 16.2 | 17.1 | 17.5 |
|                | 12H  | 14.6                 | 15.4 | 15.0 | 15.8 | 16.3 | 15.8               | 16.6 | 16.3 | 17.1 | 17.5 |
| 8H             | 4H   | 14.2                 | 15.1 | 14.6 | 15.5 | 16.0 | 15.2               | 16.1 | 15.7 | 16.5 | 17.0 |
|                | 6H   | 14.9                 | 15.6 | 15.4 | 16.1 | 16.5 | 16.0               | 16.7 | 16.5 | 17.2 | 17.7 |
|                | 8H   | 15.1                 | 15.7 | 15.6 | 16.2 | 16.7 | 16.2               | 16.8 | 16.7 | 17.3 | 17.8 |
|                | 12H  | 15.2                 | 15.8 | 15.7 | 16.3 | 16.9 | 16.3               | 16.8 | 16.8 | 17.3 | 17.9 |
| 12H            | 4H   | 14.2                 | 15.0 | 14.7 | 15.5 | 16.0 | 15.2               | 16.0 | 15.7 | 16.5 | 17.0 |
|                | 6H   | 15.0                 | 15.6 | 15.5 | 16.1 | 16.6 | 16.0               | 16.7 | 16.5 | 17.1 | 17.7 |
|                | 8H   | 15.2                 | 15.8 | 15.7 | 16.3 | 16.8 | 16.3               | 16.8 | 16.8 | 17.3 | 17.9 |

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 518.858 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.)