



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 SEL75 UV FA 930 @1400MA.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 SEL75 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-75-UV-PS1400-54-VDIM-LM2 LED driver set to 1400mA

[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                | 10153           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 147             |
| Total Luminaire Watts           | 69              |
| 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                  | 4700             | 4997              | 5261              |
| 55                  | 4352             | 4796              | 5181              |
| 65                  | 3934             | 4548              | 5038              |
| 75                  | 3300             | 4087              | 4514              |
| 85                  | 2085             | 2299              | 1714              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1331.37  | N.A.  | 13.10  |
| 0-30    | 2810.84  | N.A.  | 27.70  |
| 0-40    | 4572.43  | N.A.  | 45.00  |
| 0-60    | 8008.2   | N.A.  | 78.90  |
| 0-80    | 9990.53  | N.A.  | 98.40  |
| 0-90    | 10153.14 | N.A.  | 100.00 |
| 10-90   | 9807.31  | N.A.  | 96.60  |
| 20-40   | 3241.06  | N.A.  | 31.90  |
| 20-50   | 5048.5   | N.A.  | 49.70  |
| 40-70   | 4690.03  | N.A.  | 46.20  |
| 60-80   | 1982.33  | N.A.  | 19.50  |
| 70-80   | 728.07   | N.A.  | 7.20   |
| 80-90   | 162.61   | 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   | 10153.14 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 345.82  |
| 10-20   | 985.55  |
| 20-30   | 1479.47 |
| 30-40   | 1761.59 |
| 40-50   | 1807.44 |
| 50-60   | 1628.32 |
| 60-70   | 1254.26 |
| 70-80   | 728.07  |
| 80-90   | 162.61  |
| 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  |

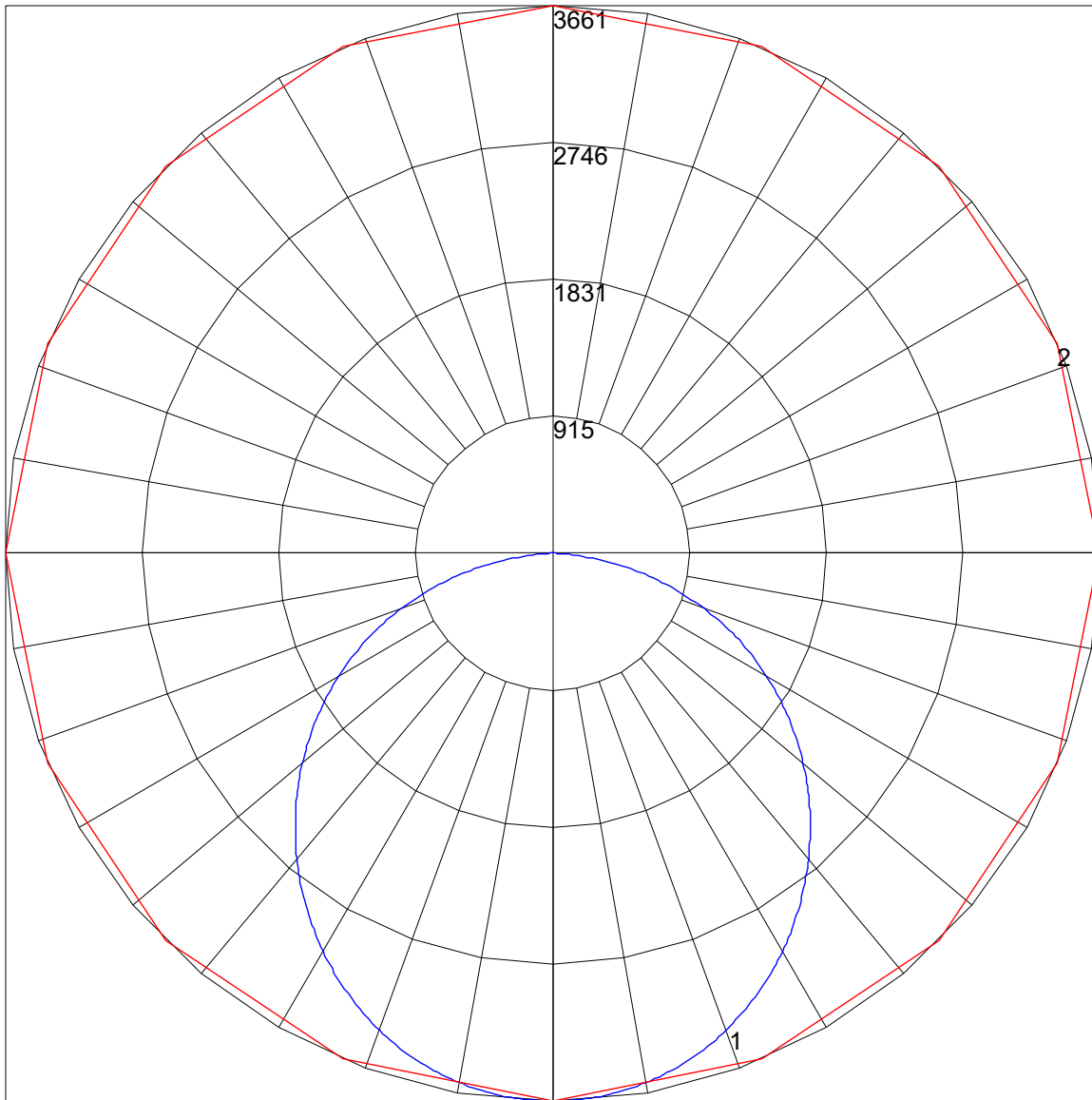
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**UGR TABLE - CORRECTED**

| 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 | 17.1                 | 18.7 | 17.5 | 19.1 | 19.4 | 18.1               | 19.7 | 18.5 | 20.0 | 20.4 |
|                | 3H   | 18.8                 | 20.3 | 19.2 | 20.6 | 21.0 | 20.1               | 21.6 | 20.4 | 21.9 | 22.2 |
|                | 4H   | 19.5                 | 20.8 | 19.9 | 21.2 | 21.6 | 20.8               | 22.2 | 21.2 | 22.6 | 22.9 |
|                | 6H   | 19.9                 | 21.2 | 20.3 | 21.5 | 21.9 | 21.3               | 22.6 | 21.7 | 23.0 | 23.4 |
|                | 8H   | 20.0                 | 21.2 | 20.4 | 21.6 | 22.0 | 21.4               | 22.7 | 21.8 | 23.1 | 23.5 |
|                | 12H  | 20.0                 | 21.2 | 20.5 | 21.6 | 22.0 | 21.5               | 22.6 | 21.9 | 23.0 | 23.5 |
| 4H             | 2H   | 17.9                 | 19.3 | 18.3 | 19.6 | 20.0 | 18.7               | 20.1 | 19.1 | 20.4 | 20.8 |
|                | 3H   | 19.8                 | 21.0 | 20.3 | 21.4 | 21.8 | 20.9               | 22.0 | 21.3 | 22.4 | 22.8 |
|                | 4H   | 20.6                 | 21.6 | 21.0 | 22.1 | 22.5 | 21.7               | 22.8 | 22.2 | 23.2 | 23.7 |
|                | 6H   | 21.1                 | 22.1 | 21.6 | 22.5 | 23.0 | 22.4               | 23.3 | 22.8 | 23.8 | 24.2 |
|                | 8H   | 21.3                 | 22.1 | 21.7 | 22.6 | 23.1 | 22.5               | 23.4 | 23.0 | 23.9 | 24.3 |
|                | 12H  | 21.4                 | 22.2 | 21.8 | 22.6 | 23.1 | 22.6               | 23.4 | 23.1 | 23.9 | 24.3 |
| 8H             | 4H   | 21.0                 | 21.9 | 21.4 | 22.3 | 22.8 | 22.0               | 22.9 | 22.5 | 23.3 | 23.8 |
|                | 6H   | 21.7                 | 22.4 | 22.2 | 22.9 | 23.3 | 22.8               | 23.5 | 23.3 | 24.0 | 24.5 |
|                | 8H   | 21.9                 | 22.5 | 22.4 | 23.0 | 23.5 | 23.0               | 23.6 | 23.5 | 24.1 | 24.6 |
|                | 12H  | 22.0                 | 22.6 | 22.5 | 23.1 | 23.7 | 23.1               | 23.6 | 23.6 | 24.1 | 24.7 |
| 12H            | 4H   | 21.0                 | 21.8 | 21.5 | 22.3 | 22.8 | 22.0               | 22.8 | 22.5 | 23.3 | 23.8 |
|                | 6H   | 21.8                 | 22.4 | 22.3 | 22.9 | 23.4 | 22.8               | 23.5 | 23.3 | 23.9 | 24.5 |
|                | 8H   | 22.0                 | 22.6 | 22.5 | 23.1 | 23.6 | 23.1               | 23.6 | 23.6 | 24.1 | 24.7 |

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 3661.162 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.)