



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 22 SEL75 UV FA 940 @1100MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-031 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/4/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] FFL G2 2R 22 SEL75 UV FA 940

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

[LAMPCAT] Two LS3873A7\_4000\_90R 4000K 64 LED boards

[BALLAST] One KTLD-75-UV-PS1400-54-VDIM-LM2 LED driver set to 1100mA

[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                | 7710            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 141             |
| Total Luminaire Watts           | 54.8            |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 7352             | 7862              | 8373              |
| 55                  | 6785             | 7514              | 8271              |
| 65                  | 6107             | 7096              | 8066              |
| 75                  | 5111             | 6319              | 7228              |
| 85                  | 3259             | 3539              | 3166              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1019.6  | N.A.  | 13.20  |
| 0-30    | 2148.75 | N.A.  | 27.90  |
| 0-40    | 3488.59 | N.A.  | 45.20  |
| 0-60    | 6092.24 | N.A.  | 79.00  |
| 0-80    | 7586.44 | N.A.  | 98.40  |
| 0-90    | 7710.41 | N.A.  | 100.00 |
| 10-90   | 7445.27 | N.A.  | 96.60  |
| 20-40   | 2469.00 | N.A.  | 32.00  |
| 20-50   | 3840.07 | N.A.  | 49.80  |
| 40-70   | 3550.81 | N.A.  | 46.10  |
| 60-80   | 1494.2  | N.A.  | 19.40  |
| 70-80   | 547.04  | N.A.  | 7.10   |
| 80-90   | 123.97  | 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   | 7710.41 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 265.13  |
| 10-20   | 754.46  |
| 20-30   | 1129.15 |
| 30-40   | 1339.85 |
| 40-50   | 1371.07 |
| 50-60   | 1232.58 |
| 60-70   | 947.16  |
| 70-80   | 547.04  |
| 80-90   | 123.97  |
| 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  | 82  | 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  |

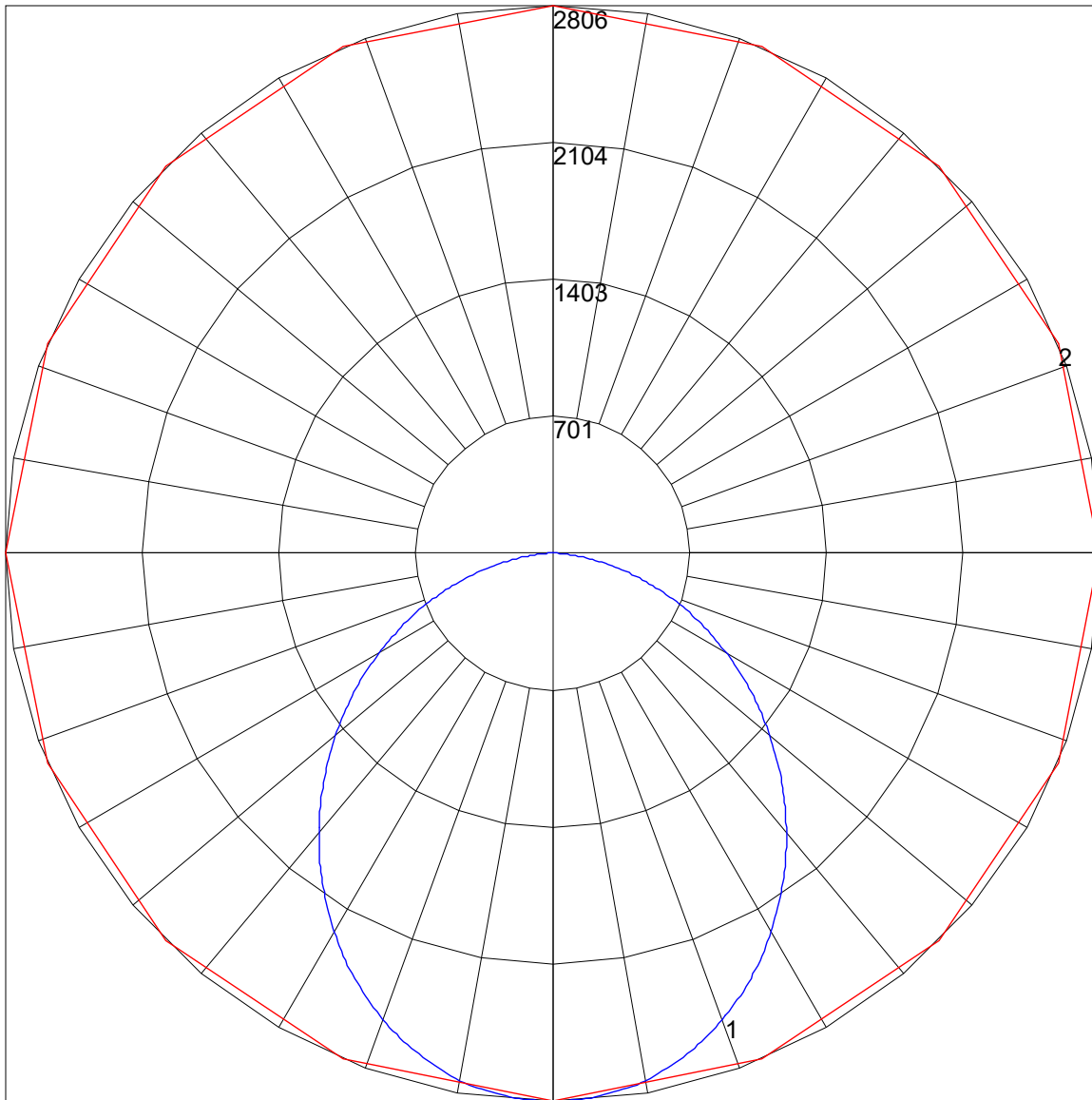
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**UGR TABLE - CORRECTED**

| 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 | 18.6                 | 20.2 | 18.9 | 20.5 | 20.8 | 19.7               | 21.3 | 20.1 | 21.6 | 22.0 |
|                | 3H   | 20.3                 | 21.7 | 20.6 | 22.1 | 22.4 | 21.7               | 23.1 | 22.0 | 23.5 | 23.8 |
|                | 4H   | 20.9                 | 22.3 | 21.3 | 22.6 | 23.0 | 22.4               | 23.8 | 22.8 | 24.1 | 24.5 |
|                | 6H   | 21.3                 | 22.6 | 21.7 | 23.0 | 23.3 | 22.9               | 24.2 | 23.3 | 24.6 | 25.0 |
|                | 8H   | 21.4                 | 22.6 | 21.8 | 23.0 | 23.4 | 23.0               | 24.3 | 23.5 | 24.7 | 25.1 |
|                | 12H  | 21.5                 | 22.7 | 21.9 | 23.0 | 23.5 | 23.1               | 24.3 | 23.5 | 24.6 | 25.1 |
| 4H             | 2H   | 19.3                 | 20.7 | 19.7 | 21.1 | 21.5 | 20.2               | 21.6 | 20.6 | 22.0 | 22.3 |
|                | 3H   | 21.3                 | 22.4 | 21.7 | 22.8 | 23.2 | 22.4               | 23.6 | 22.9 | 24.0 | 24.4 |
|                | 4H   | 22.0                 | 23.1 | 22.4 | 23.5 | 23.9 | 23.3               | 24.4 | 23.7 | 24.8 | 25.2 |
|                | 6H   | 22.5                 | 23.5 | 23.0 | 23.9 | 24.4 | 24.0               | 24.9 | 24.4 | 25.3 | 25.8 |
|                | 8H   | 22.7                 | 23.6 | 23.1 | 24.0 | 24.5 | 24.1               | 25.0 | 24.6 | 25.4 | 25.9 |
|                | 12H  | 22.8                 | 23.6 | 23.3 | 24.0 | 24.5 | 24.2               | 25.0 | 24.7 | 25.4 | 25.9 |
| 8H             | 4H   | 22.4                 | 23.3 | 22.9 | 23.7 | 24.2 | 23.6               | 24.4 | 24.0 | 24.9 | 25.3 |
|                | 6H   | 23.1                 | 23.8 | 23.6 | 24.3 | 24.8 | 24.3               | 25.0 | 24.8 | 25.5 | 26.0 |
|                | 8H   | 23.3                 | 23.9 | 23.8 | 24.4 | 24.9 | 24.6               | 25.2 | 25.1 | 25.7 | 26.2 |
|                | 12H  | 23.5                 | 24.0 | 24.0 | 24.5 | 25.1 | 24.7               | 25.2 | 25.2 | 25.7 | 26.3 |
| 12H            | 4H   | 22.5                 | 23.3 | 23.0 | 23.7 | 24.2 | 23.6               | 24.4 | 24.1 | 24.8 | 25.3 |
|                | 6H   | 23.2                 | 23.8 | 23.7 | 24.3 | 24.8 | 24.4               | 25.0 | 24.9 | 25.5 | 26.0 |
|                | 8H   | 23.4                 | 24.0 | 23.9 | 24.5 | 25.0 | 24.6               | 25.2 | 25.1 | 25.7 | 26.3 |

Maximum UGR = 26.3

POLAR GRAPH



Maximum Candela = 2805.655 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.)