



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFL G2 2R 24 ML UV FA 930.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-030 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/28/2022

[MANUFAC] Lumen Focus, LLC

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

[LUMINAIRE] Recessed mounted, formed white painted steel housing/reflectors,

[MORE] two frosted linear ribbed plastic enclosures.

[LAMP] 192 white LEDs, four LS3873A7\_3000\_90R 3000K LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver programmed at 660mA

[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                | 4857            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 148             |
| Total Luminaire Watts           | 32.8            |
| 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                  | 2248             | 2391              | 2517              |
| 55                  | 2082             | 2294              | 2478              |
| 65                  | 1882             | 2176              | 2410              |
| 75                  | 1579             | 1955              | 2159              |
| 85                  | 997              | 1100              | 820               |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 636.91  | N.A.  | 13.10  |
| 0-30    | 1344.66 | N.A.  | 27.70  |
| 0-40    | 2187.38 | N.A.  | 45.00  |
| 0-60    | 3830.99 | N.A.  | 78.90  |
| 0-80    | 4779.31 | N.A.  | 98.40  |
| 0-90    | 4857.1  | N.A.  | 100.00 |
| 10-90   | 4691.66 | N.A.  | 96.60  |
| 20-40   | 1550.47 | N.A.  | 31.90  |
| 20-50   | 2415.12 | N.A.  | 49.70  |
| 40-70   | 2243.63 | N.A.  | 46.20  |
| 60-80   | 948.32  | N.A.  | 19.50  |
| 70-80   | 348.30  | N.A.  | 7.20   |
| 80-90   | 77.79   | 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   | 4857.1  | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 165.44 |
| 10-20   | 471.47 |
| 20-30   | 707.75 |
| 30-40   | 842.72 |
| 40-50   | 864.65 |
| 50-60   | 778.96 |
| 60-70   | 600.02 |
| 70-80   | 348.30 |
| 80-90   | 77.79  |
| 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**

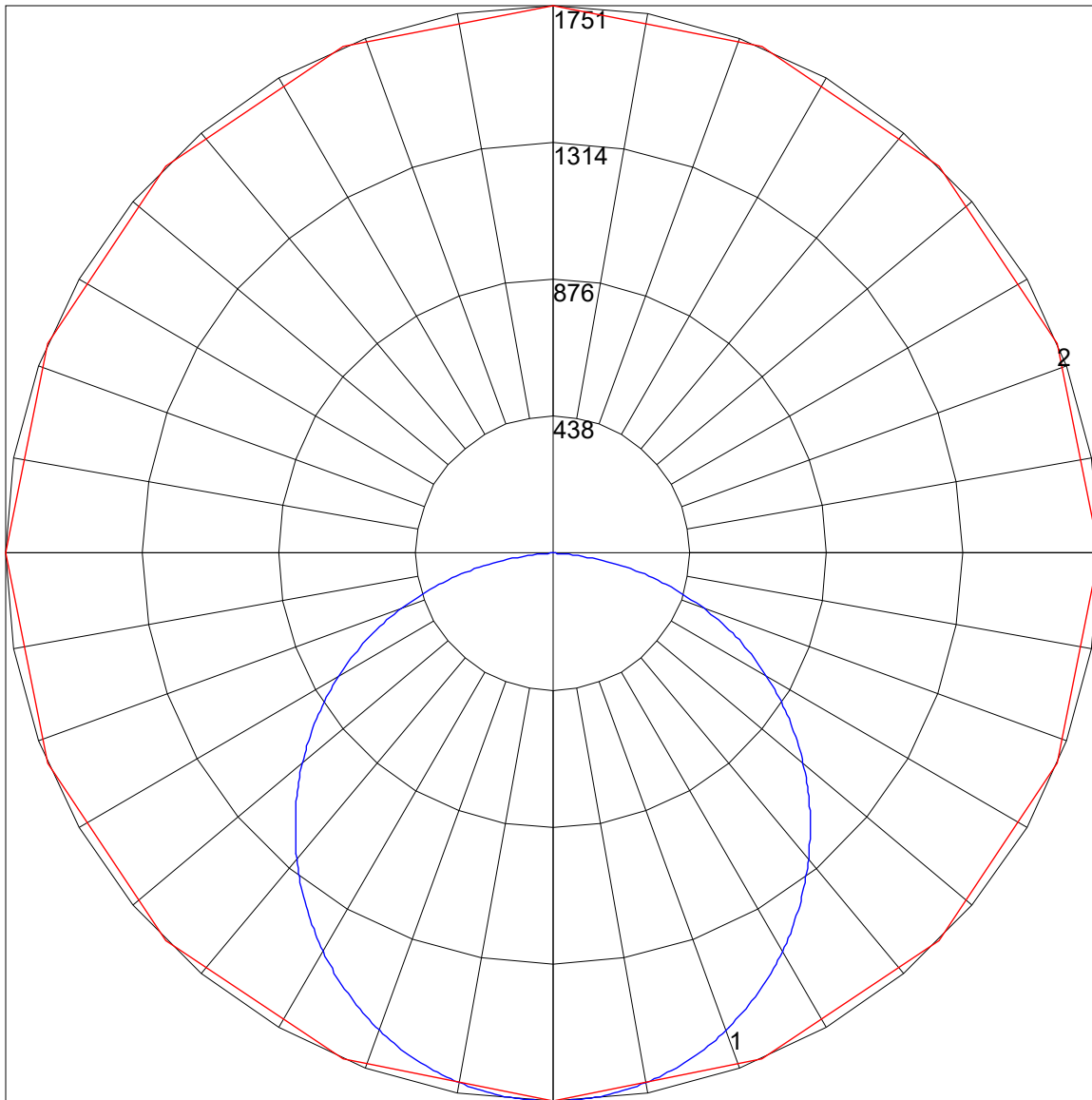
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 14.5                 | 16.1 | 14.9 | 16.5 | 16.8 | 15.5               | 17.1 | 15.9 | 17.4 | 17.8 |
|           | 3H   | 16.2                 | 17.7 | 16.6 | 18.0 | 18.4 | 17.5               | 19.0 | 17.8 | 19.3 | 19.6 |
|           | 4H   | 16.9                 | 18.2 | 17.3 | 18.6 | 19.0 | 18.2               | 19.6 | 18.6 | 20.0 | 20.3 |
|           | 6H   | 17.3                 | 18.6 | 17.7 | 18.9 | 19.3 | 18.7               | 20.0 | 19.1 | 20.4 | 20.8 |
|           | 8H   | 17.4                 | 18.6 | 17.8 | 19.0 | 19.4 | 18.8               | 20.1 | 19.2 | 20.5 | 20.9 |
|           | 12H  | 17.4                 | 18.6 | 17.9 | 19.0 | 19.4 | 18.9               | 20.0 | 19.3 | 20.4 | 20.9 |
| 4H        | 2H   | 15.3                 | 16.7 | 15.7 | 17.0 | 17.4 | 16.1               | 17.5 | 16.5 | 17.8 | 18.2 |
|           | 3H   | 17.2                 | 18.4 | 17.7 | 18.8 | 19.2 | 18.3               | 19.4 | 18.7 | 19.8 | 20.2 |
|           | 4H   | 18.0                 | 19.0 | 18.4 | 19.5 | 19.9 | 19.1               | 20.2 | 19.6 | 20.6 | 21.1 |
|           | 6H   | 18.5                 | 19.5 | 19.0 | 19.9 | 20.3 | 19.8               | 20.7 | 20.2 | 21.2 | 21.6 |
|           | 8H   | 18.7                 | 19.5 | 19.1 | 20.0 | 20.5 | 19.9               | 20.8 | 20.4 | 21.3 | 21.7 |
|           | 12H  | 18.8                 | 19.6 | 19.2 | 20.0 | 20.5 | 20.0               | 20.8 | 20.5 | 21.3 | 21.7 |
| 8H        | 4H   | 18.4                 | 19.3 | 18.8 | 19.7 | 20.2 | 19.4               | 20.3 | 19.9 | 20.7 | 21.2 |
|           | 6H   | 19.1                 | 19.8 | 19.6 | 20.3 | 20.7 | 20.2               | 20.9 | 20.7 | 21.4 | 21.9 |
|           | 8H   | 19.3                 | 19.9 | 19.8 | 20.4 | 20.9 | 20.4               | 21.0 | 20.9 | 21.5 | 22.0 |
|           | 12H  | 19.4                 | 20.0 | 19.9 | 20.5 | 21.1 | 20.5               | 21.0 | 21.0 | 21.5 | 22.1 |
| 12H       | 4H   | 18.4                 | 19.2 | 18.9 | 19.7 | 20.2 | 19.4               | 20.2 | 19.9 | 20.7 | 21.2 |
|           | 6H   | 19.2                 | 19.8 | 19.7 | 20.3 | 20.8 | 20.2               | 20.9 | 20.7 | 21.3 | 21.9 |
|           | 8H   | 19.4                 | 20.0 | 19.9 | 20.5 | 21.0 | 20.5               | 21.0 | 21.0 | 21.5 | 22.1 |

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1751.441 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.)