



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FFR G2 22 SL UV FA 930.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001588-014 (s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 2/17/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] FFR G2 22 SL UV FA 930

[LUMINAIRE] Retrofit kit installed in an A.L.P. EL-2x2-20-2 2x2 housing,

[MORE] formed white painted steel reflectors, frosted linear ribbed plastic enclosure.

[LAMP] 48 white LEDs, one LS3872A7\_3000\_90R 3000K LED board

[BALLAST] One ULT D700C20UNVPW-C LED driver programmed at 260mA

[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                | 1870            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 130             |
| Total Luminaire Watts           | 14.4            |
| 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)         | 1.84 ft         |
| Luminous Width (90-270)         | 1.84 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                  | 1700             | 1863              | 2031              |
| 55                  | 1560             | 1812              | 2084              |
| 65                  | 1396             | 1790              | 2222              |
| 75                  | 1181             | 1812              | 2505              |
| 85                  | 851              | 1529              | 1713              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 237.33  | N.A.  | 12.70  |
| 0-30    | 500.09  | N.A.  | 26.70  |
| 0-40    | 812.51  | N.A.  | 43.50  |
| 0-60    | 1429.19 | N.A.  | 76.40  |
| 0-80    | 1824.72 | N.A.  | 97.60  |
| 0-90    | 1869.96 | N.A.  | 100.00 |
| 10-90   | 1808.23 | N.A.  | 96.70  |
| 20-40   | 575.18  | N.A.  | 30.80  |
| 20-50   | 897.01  | N.A.  | 48.00  |
| 40-70   | 854.70  | N.A.  | 45.70  |
| 60-80   | 395.53  | N.A.  | 21.20  |
| 70-80   | 157.51  | N.A.  | 8.40   |
| 80-90   | 45.24   | N.A.  | 2.40   |
| 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   | 1869.96 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 61.73  |
| 10-20   | 175.59 |
| 20-30   | 262.76 |
| 30-40   | 312.42 |
| 40-50   | 321.82 |
| 50-60   | 294.85 |
| 60-70   | 238.02 |
| 70-80   | 157.51 |
| 80-90   | 45.24  |
| 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  | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 87  | 89  | 87  | 85  | 83  |
| 2  | 98  | 90  | 82  | 76  | 95  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 70  | 68  |
| 3  | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 60  | 68  | 64  | 59  | 57  |
| 4  | 82  | 69  | 60  | 53  | 79  | 68  | 60  | 53  | 65  | 58  | 52  | 63  | 57  | 52  | 61  | 55  | 51  | 49  |
| 5  | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |
| 6  | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |
| 7  | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |
| 8  | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |
| 9  | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |
| 10 | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 24  |

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**UGR TABLE - CORRECTED**

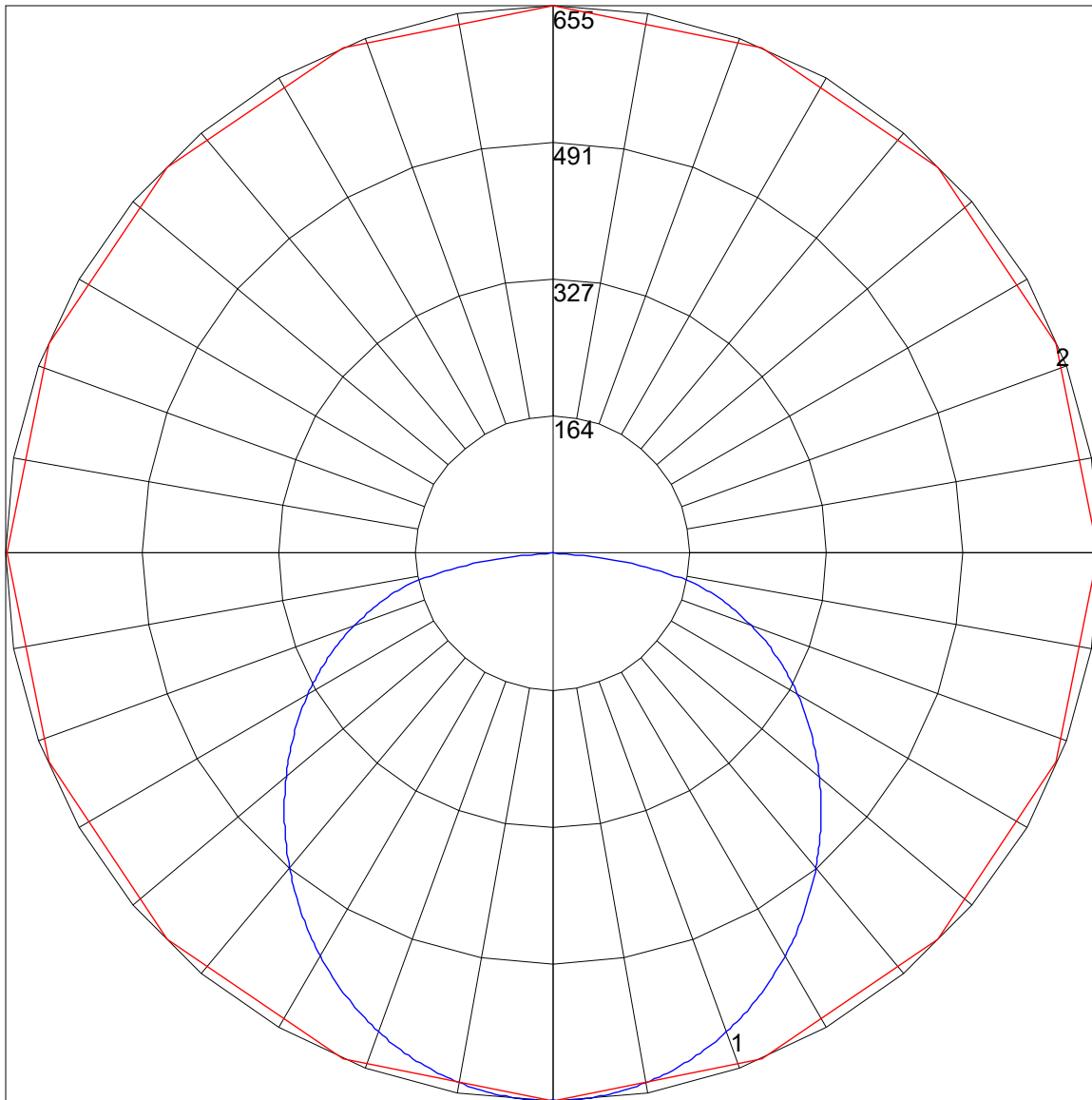
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 13.3                 | 15.0 | 13.7 | 15.3 | 15.6 | 15.0               | 16.7 | 15.4 | 17.0 | 17.3 |
|           | 3H   | 15.0                 | 16.5 | 15.4 | 16.9 | 17.2 | 17.4               | 18.9 | 17.8 | 19.3 | 19.6 |
|           | 4H   | 15.6                 | 17.1 | 16.0 | 17.4 | 17.8 | 18.5               | 19.9 | 18.9 | 20.3 | 20.6 |
|           | 6H   | 16.1                 | 17.4 | 16.5 | 17.8 | 18.2 | 19.4               | 20.8 | 19.9 | 21.1 | 21.5 |
|           | 8H   | 16.2                 | 17.5 | 16.7 | 17.9 | 18.3 | 19.8               | 21.0 | 20.2 | 21.4 | 21.8 |
|           | 12H  | 16.3                 | 17.5 | 16.8 | 17.9 | 18.3 | 19.9               | 21.1 | 20.3 | 21.5 | 21.9 |
| 4H        | 2H   | 14.2                 | 15.7 | 14.6 | 16.0 | 16.4 | 15.5               | 17.0 | 15.9 | 17.3 | 17.7 |
|           | 3H   | 16.2                 | 17.4 | 16.6 | 17.8 | 18.2 | 18.2               | 19.4 | 18.6 | 19.8 | 20.2 |
|           | 4H   | 16.9                 | 18.0 | 17.4 | 18.4 | 18.9 | 19.5               | 20.6 | 19.9 | 21.0 | 21.4 |
|           | 6H   | 17.5                 | 18.5 | 17.9 | 18.9 | 19.4 | 20.6               | 21.6 | 21.0 | 22.0 | 22.5 |
|           | 8H   | 17.7                 | 18.6 | 18.2 | 19.0 | 19.5 | 21.0               | 21.9 | 21.4 | 22.3 | 22.8 |
|           | 12H  | 17.8                 | 18.6 | 18.3 | 19.1 | 19.6 | 21.2               | 22.0 | 21.7 | 22.5 | 22.9 |
| 8H        | 4H   | 17.6                 | 18.5 | 18.0 | 18.9 | 19.4 | 19.8               | 20.6 | 20.2 | 21.1 | 21.5 |
|           | 6H   | 18.3                 | 19.1 | 18.8 | 19.6 | 20.0 | 21.1               | 21.8 | 21.5 | 22.3 | 22.8 |
|           | 8H   | 18.6                 | 19.3 | 19.1 | 19.8 | 20.2 | 21.5               | 22.2 | 22.0 | 22.7 | 23.2 |
|           | 12H  | 18.8                 | 19.4 | 19.3 | 19.9 | 20.4 | 21.8               | 22.4 | 22.3 | 22.9 | 23.5 |
| 12H       | 4H   | 17.7                 | 18.5 | 18.2 | 19.0 | 19.5 | 19.8               | 20.6 | 20.2 | 21.1 | 21.5 |
|           | 6H   | 18.5                 | 19.2 | 19.1 | 19.7 | 20.2 | 21.1               | 21.8 | 21.6 | 22.2 | 22.8 |
|           | 8H   | 18.9                 | 19.5 | 19.4 | 20.0 | 20.5 | 21.6               | 22.2 | 22.1 | 22.7 | 23.3 |

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 654.567 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)