



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 8 SEL15 UV FR 935 @300MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 8 SEL15 UV FR 935

[LUMINAIRE] Surface or suspended mounted, formed white painted steel housing/reflector,

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 28 LED boards, 3500K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 LED driver set to 300mA

[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                | 1988                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 148                 |
| Total Luminaire Watts           | 13.4                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.26                |
| Spacing Criterion (90-270)      | 1.30                |
| Spacing Criterion (Diagonal)    | 1.38                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 8.00 ft             |
| Luminous Width (90-270)         | 0.38 ft             |
| Luminous Height                 | 0.06 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2110             | 2026              | 2014              |
| 55                  | 1845             | 1841              | 1849              |
| 65                  | 1491             | 1614              | 1633              |
| 75                  | 1095             | 1386              | 1382              |
| 85                  | 661              | 1305              | 1212              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : ECL G2 8 SEL15 UV FR 935 @300MA.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 247.13  | N.A.  | 12.40  |
| 0-30    | 525.54  | N.A.  | 26.40  |
| 0-40    | 860.52  | N.A.  | 43.30  |
| 0-60    | 1508.44 | N.A.  | 75.90  |
| 0-80    | 1880.36 | N.A.  | 94.60  |
| 0-90    | 1952.24 | N.A.  | 98.20  |
| 10-90   | 1888.42 | N.A.  | 95.00  |
| 20-40   | 613.40  | N.A.  | 30.90  |
| 20-50   | 957.11  | N.A.  | 48.20  |
| 40-70   | 876.94  | N.A.  | 44.10  |
| 60-80   | 371.92  | N.A.  | 18.70  |
| 70-80   | 142.90  | N.A.  | 7.20   |
| 80-90   | 71.88   | N.A.  | 3.60   |
| 90-110  | 35.43   | N.A.  | 1.80   |
| 90-120  | 35.50   | N.A.  | 1.80   |
| 90-130  | 35.50   | N.A.  | 1.80   |
| 90-150  | 35.50   | N.A.  | 1.80   |
| 90-180  | 35.50   | N.A.  | 1.80   |
| 110-180 | 0.07    | N.A.  | 0.00   |
| 0-180   | 1987.74 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 63.81  |
| 10-20   | 183.31 |
| 20-30   | 278.42 |
| 30-40   | 334.98 |
| 40-50   | 343.71 |
| 50-60   | 304.20 |
| 60-70   | 229.02 |
| 70-80   | 142.90 |
| 80-90   | 71.88  |
| 90-100  | 28.81  |
| 100-110 | 6.62   |
| 110-120 | 0.07   |
| 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1  | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 95  | 92  | 89  | 91  | 88  | 86  | 87  | 85  | 83  | 81 |
| 2  | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 83  | 78  | 73  | 80  | 75  | 71  | 76  | 73  | 69  | 67 |
| 3  | 89  | 78  | 70  | 63  | 86  | 77  | 69  | 63  | 73  | 67  | 61  | 70  | 65  | 60  | 67  | 63  | 59  | 56 |
| 4  | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 65  | 58  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 48 |
| 5  | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 58  | 51  | 45  | 56  | 50  | 44  | 54  | 48  | 44  | 42 |
| 6  | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36 |
| 7  | 64  | 51  | 42  | 36  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 34  | 32 |
| 8  | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 32  | 44  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29 |
| 9  | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26 |
| 10 | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23 |

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## UGR TABLE - CORRECTED

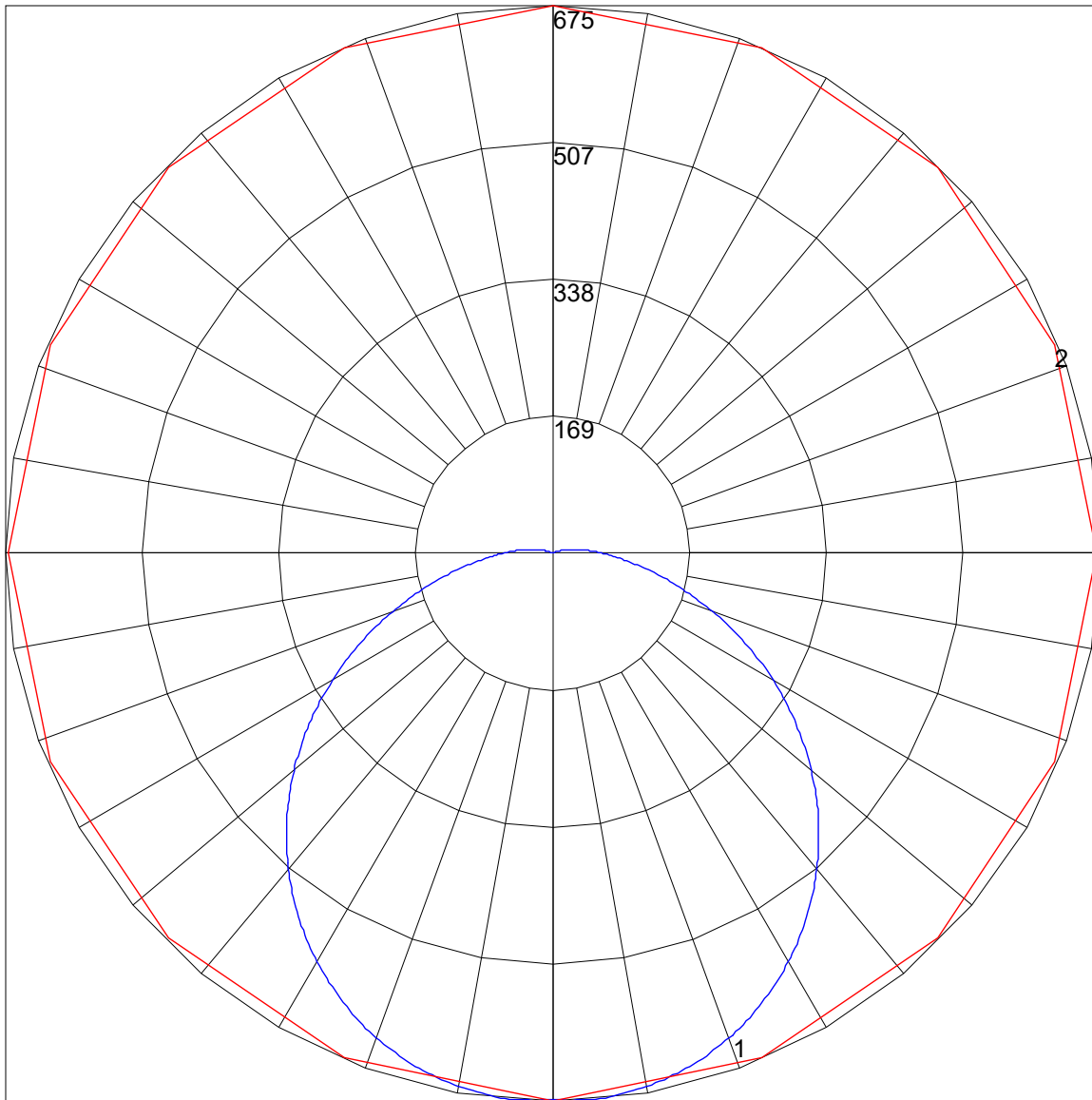
### Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 13.0                 | 14.6 | 13.4 | 15.0 | 15.3 | 14.7               | 16.3 | 15.1 | 16.7 | 17.0 |
|           | 3H   | 14.3                 | 15.8 | 14.7 | 16.1 | 16.5 | 16.7               | 18.2 | 17.1 | 18.5 | 18.9 |
|           | 4H   | 14.7                 | 16.1 | 15.1 | 16.5 | 16.9 | 17.5               | 18.9 | 18.0 | 19.3 | 19.7 |
|           | 6H   | 14.9                 | 16.2 | 15.4 | 16.6 | 17.1 | 18.3               | 19.6 | 18.8 | 20.0 | 20.5 |
|           | 8H   | 15.0                 | 16.2 | 15.4 | 16.6 | 17.1 | 18.7               | 20.0 | 19.2 | 20.4 | 20.8 |
|           | 12H  | 15.0                 | 16.2 | 15.5 | 16.6 | 17.1 | 19.1               | 20.3 | 19.6 | 20.7 | 21.2 |
| 4H        | 2H   | 13.9                 | 15.2 | 14.3 | 15.6 | 16.0 | 15.2               | 16.6 | 15.6 | 16.9 | 17.4 |
|           | 3H   | 15.4                 | 16.6 | 15.8 | 17.0 | 17.4 | 17.4               | 18.6 | 17.8 | 19.0 | 19.5 |
|           | 4H   | 15.9                 | 17.0 | 16.4 | 17.4 | 17.9 | 18.4               | 19.5 | 18.9 | 19.9 | 20.4 |
|           | 6H   | 16.3                 | 17.2 | 16.7 | 17.7 | 18.2 | 19.4               | 20.3 | 19.9 | 20.8 | 21.3 |
|           | 8H   | 16.3                 | 17.2 | 16.8 | 17.7 | 18.2 | 19.9               | 20.7 | 20.3 | 21.2 | 21.7 |
|           | 12H  | 16.4                 | 17.2 | 16.9 | 17.7 | 18.2 | 20.4               | 21.1 | 20.9 | 21.7 | 22.2 |
| 8H        | 4H   | 16.5                 | 17.3 | 17.0 | 17.8 | 18.3 | 18.6               | 19.5 | 19.1 | 20.0 | 20.5 |
|           | 6H   | 17.0                 | 17.7 | 17.5 | 18.2 | 18.8 | 19.8               | 20.5 | 20.3 | 21.0 | 21.6 |
|           | 8H   | 17.2                 | 17.8 | 17.7 | 18.4 | 18.9 | 20.4               | 21.0 | 20.9 | 21.6 | 22.1 |
|           | 12H  | 17.3                 | 17.9 | 17.8 | 18.4 | 19.0 | 21.0               | 21.6 | 21.6 | 22.1 | 22.8 |
| 12H       | 4H   | 16.6                 | 17.4 | 17.1 | 17.9 | 18.4 | 18.6               | 19.4 | 19.2 | 20.0 | 20.5 |
|           | 6H   | 17.2                 | 17.9 | 17.8 | 18.4 | 19.0 | 19.9               | 20.5 | 20.4 | 21.0 | 21.6 |
|           | 8H   | 17.5                 | 18.0 | 18.0 | 18.6 | 19.2 | 20.5               | 21.1 | 21.0 | 21.6 | 22.2 |

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 675.471 Located At Horizontal Angle = 90, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)