



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 ML UV 950.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/1/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL G2 4 ML UV 950

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

[MORE] no enclosure.

[LAMP] 56 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D700C20UNVPW-C LED driver labeled as 480mA

[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                | 3413                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 153                 |
| Total Luminaire Watts           | 22.3                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.30                |
| Spacing Criterion (90-270)      | 1.32                |
| Spacing Criterion (Diagonal)    | 1.42                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.00 ft             |
| Luminous Width (90-270)         | 0.38 ft             |
| Luminous Height                 | 0.02 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 8112             | 7840              | 7790              |
| 55                  | 7974             | 7606              | 7396              |
| 65                  | 7536             | 6920              | 6668              |
| 75                  | 6420             | 5429              | 5083              |
| 85                  | 3605             | 2438              | 2191              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 417.39  | N.A.  | 12.20  |
| 0-30    | 893.85  | N.A.  | 26.20  |
| 0-40    | 1479.86 | N.A.  | 43.40  |
| 0-60    | 2677.48 | N.A.  | 78.50  |
| 0-80    | 3357.68 | N.A.  | 98.40  |
| 0-90    | 3412.52 | N.A.  | 100.00 |
| 10-90   | 3305.06 | N.A.  | 96.80  |
| 20-40   | 1062.47 | N.A.  | 31.10  |
| 20-50   | 1685.33 | N.A.  | 49.40  |
| 40-70   | 1637.39 | N.A.  | 48.00  |
| 60-80   | 680.21  | N.A.  | 19.90  |
| 70-80   | 240.43  | N.A.  | 7.00   |
| 80-90   | 54.83   | N.A.  | 1.60   |
| 90-110  | 0.30    | N.A.  | 0.00   |
| 90-120  | 0.30    | N.A.  | 0.00   |
| 90-130  | 0.30    | N.A.  | 0.00   |
| 90-150  | 0.30    | N.A.  | 0.00   |
| 90-180  | 0.30    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 3412.81 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 107.45 |
| 10-20   | 309.94 |
| 20-30   | 476.45 |
| 30-40   | 586.02 |
| 40-50   | 622.86 |
| 50-60   | 574.76 |
| 60-70   | 439.77 |
| 70-80   | 240.43 |
| 80-90   | 54.83  |
| 90-100  | 0.30   |
| 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  | 93  | 91  | 88  | 90  | 88  | 86  | 84  |
| 2  | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  | 82  | 77  | 73  | 78  | 75  | 71  | 69  |
| 3  | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  | 72  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4  | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 52  | 49  |
| 5  | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |
| 6  | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |
| 7  | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 35  | 33  |
| 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  | 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  | 36  | 30  | 25  | 23  |

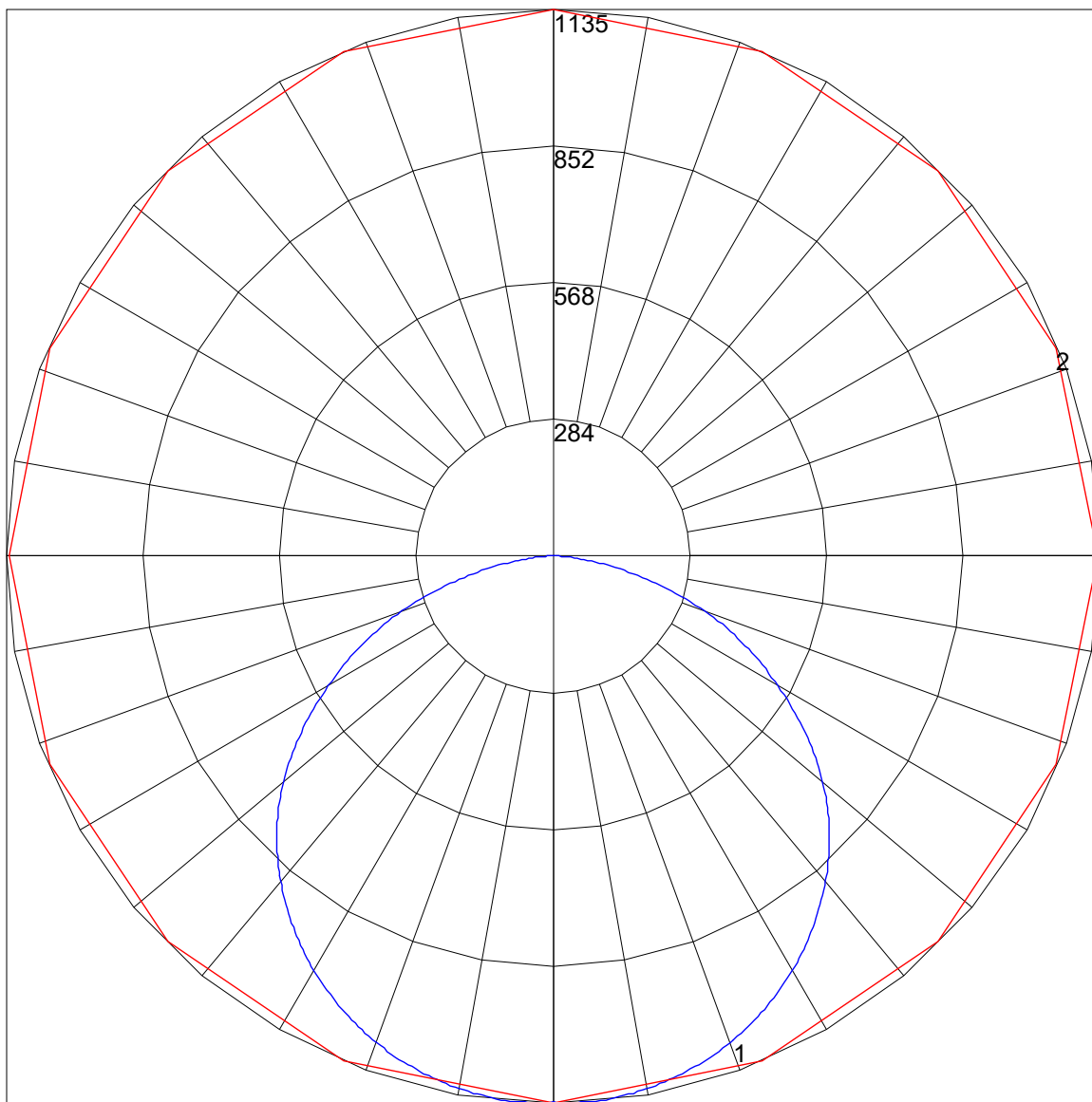
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 19.3                 | 21.0 | 19.7 | 21.3 | 21.6 | 19.4               | 21.1 | 19.8 | 21.4 | 21.7 |
|                | 3H   | 21.1                 | 22.6 | 21.5 | 22.9 | 23.3 | 21.2               | 22.7 | 21.6 | 23.1 | 23.4 |
|                | 4H   | 21.7                 | 23.1 | 22.1 | 23.5 | 23.8 | 21.8               | 23.2 | 22.2 | 23.6 | 24.0 |
|                | 6H   | 22.1                 | 23.4 | 22.5 | 23.8 | 24.2 | 22.2               | 23.5 | 22.6 | 23.9 | 24.3 |
|                | 8H   | 22.2                 | 23.4 | 22.6 | 23.8 | 24.2 | 22.3               | 23.6 | 22.7 | 23.9 | 24.3 |
|                | 12H  | 22.2                 | 23.4 | 22.6 | 23.8 | 24.2 | 22.3               | 23.6 | 22.8 | 23.9 | 24.4 |
| 4H             | 2H   | 20.0                 | 21.4 | 20.4 | 21.7 | 22.1 | 20.1               | 21.5 | 20.5 | 21.8 | 22.2 |
|                | 3H   | 21.9                 | 23.1 | 22.3 | 23.5 | 23.9 | 22.0               | 23.2 | 22.4 | 23.6 | 24.0 |
|                | 4H   | 22.7                 | 23.7 | 23.1 | 24.1 | 24.6 | 22.7               | 23.8 | 23.1 | 24.2 | 24.6 |
|                | 6H   | 23.1                 | 24.1 | 23.6 | 24.5 | 25.0 | 23.2               | 24.1 | 23.6 | 24.6 | 25.0 |
|                | 8H   | 23.3                 | 24.1 | 23.7 | 24.6 | 25.1 | 23.3               | 24.2 | 23.8 | 24.7 | 25.1 |
|                | 12H  | 23.3                 | 24.1 | 23.8 | 24.6 | 25.1 | 23.4               | 24.2 | 23.9 | 24.7 | 25.1 |
| 8H             | 4H   | 22.9                 | 23.8 | 23.4 | 24.2 | 24.7 | 23.0               | 23.9 | 23.4 | 24.3 | 24.8 |
|                | 6H   | 23.5                 | 24.2 | 24.0 | 24.7 | 25.2 | 23.5               | 24.3 | 24.0 | 24.8 | 25.2 |
|                | 8H   | 23.6                 | 24.3 | 24.2 | 24.8 | 25.3 | 23.7               | 24.4 | 24.2 | 24.9 | 25.4 |
|                | 12H  | 23.7                 | 24.3 | 24.3 | 24.8 | 25.4 | 23.8               | 24.4 | 24.3 | 24.9 | 25.5 |
| 12H            | 4H   | 22.9                 | 23.7 | 23.4 | 24.2 | 24.7 | 23.0               | 23.8 | 23.5 | 24.3 | 24.7 |
|                | 6H   | 23.5                 | 24.2 | 24.0 | 24.6 | 25.2 | 23.6               | 24.2 | 24.1 | 24.7 | 25.2 |
|                | 8H   | 23.7                 | 24.3 | 24.2 | 24.8 | 25.3 | 23.8               | 24.4 | 24.3 | 24.8 | 25.4 |

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 1135.377 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)