



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 4 MD UV FR 935.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 4 MD UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMP] 56 white LEDs on two LS3872A LED boards

[BALLAST] One ULT D10CC30UNVPW-C LED driver labeled as 640mA

[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                | 4064                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 137                 |
| Total Luminaire Watts           | 29.6                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.24                |
| Spacing Criterion (90-270)      | 1.30                |
| Spacing Criterion (Diagonal)    | 1.38                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 3.84 ft             |
| Luminous Width (90-270)         | 0.21 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                  | 15754            | 14064             | 13700             |
| 55                  | 13677            | 12409             | 12134             |
| 65                  | 10956            | 10401             | 10181             |
| 75                  | 7950             | 8296              | 7977              |
| 85                  | 4576             | 6693              | 6047              |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ECL N G2 4 MD UV FR 935.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 498.23  | N.A.  | 12.30  |
| 0-30    | 1059.41 | N.A.  | 26.10  |
| 0-40    | 1734.52 | N.A.  | 42.70  |
| 0-60    | 3040.02 | N.A.  | 74.80  |
| 0-80    | 3787.54 | N.A.  | 93.20  |
| 0-90    | 3933.24 | N.A.  | 96.80  |
| 10-90   | 3804.55 | N.A.  | 93.60  |
| 20-40   | 1236.29 | N.A.  | 30.40  |
| 20-50   | 1929.16 | N.A.  | 47.50  |
| 40-70   | 1765.94 | N.A.  | 43.50  |
| 60-80   | 747.52  | N.A.  | 18.40  |
| 70-80   | 287.08  | N.A.  | 7.10   |
| 80-90   | 145.70  | N.A.  | 3.60   |
| 90-110  | 97.88   | N.A.  | 2.40   |
| 90-120  | 114.26  | N.A.  | 2.80   |
| 90-130  | 122.92  | N.A.  | 3.00   |
| 90-150  | 129.42  | N.A.  | 3.20   |
| 90-180  | 130.55  | N.A.  | 3.20   |
| 110-180 | 32.67   | N.A.  | 0.80   |
| 0-180   | 4063.8  | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 128.70 |
| 10-20   | 369.53 |
| 20-30   | 561.19 |
| 30-40   | 675.11 |
| 40-50   | 692.86 |
| 50-60   | 612.64 |
| 60-70   | 460.44 |
| 70-80   | 287.08 |
| 80-90   | 145.70 |
| 90-100  | 66.06  |
| 100-110 | 31.82  |
| 110-120 | 16.38  |
| 120-130 | 8.66   |
| 130-140 | 4.43   |
| 140-150 | 2.06   |
| 150-160 | 0.88   |
| 160-170 | 0.25   |
| 170-180 | 0.00   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ECL N G2 4 MD UV FR 935.IES**

**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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1  | 107 | 102 | 98  | 94  | 104 | 100 | 96  | 92  | 95  | 91  | 88  | 90  | 88  | 85  | 86 | 84 | 82 | 80 |
| 2  | 97  | 89  | 82  | 76  | 94  | 87  | 80  | 75  | 83  | 77  | 73  | 79  | 74  | 70  | 75 | 72 | 68 | 66 |
| 3  | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 62  | 73  | 66  | 61  | 70  | 64  | 59  | 67 | 62 | 58 | 56 |
| 4  | 81  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 57  | 52  | 62  | 56  | 51  | 59 | 54 | 50 | 47 |
| 5  | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 46  | 58  | 50  | 45  | 56  | 49  | 44  | 53 | 48 | 43 | 41 |
| 6  | 69  | 56  | 47  | 40  | 67  | 54  | 46  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 48 | 43 | 38 | 36 |
| 7  | 64  | 50  | 42  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 44 | 38 | 34 | 32 |
| 8  | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 35  | 31  | 41 | 35 | 30 | 28 |
| 9  | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38 | 32 | 27 | 25 |
| 10 | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 35 | 29 | 25 | 23 |

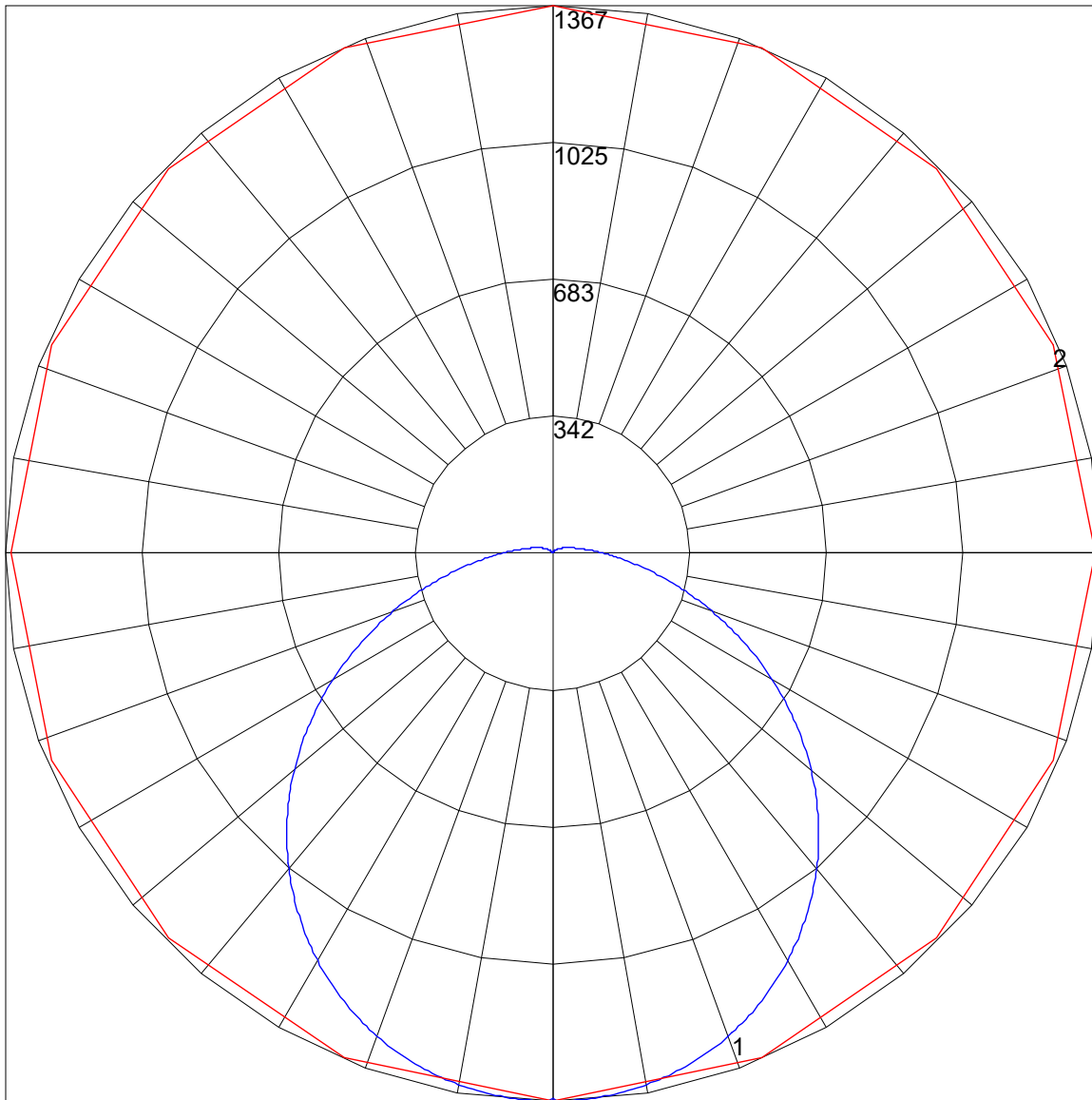
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ECL N G2 4 MD UV FR 935.IES**

**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 | 19.4                 | 21.0 | 19.8 | 21.4 | 21.8 | 21.4               | 23.0 | 21.8 | 23.4 | 23.8 |
|                | 3H   | 20.6                 | 22.1 | 21.1 | 22.4 | 22.9 | 23.4               | 24.8 | 23.8 | 25.2 | 25.7 |
|                | 4H   | 21.0                 | 22.3 | 21.4 | 22.7 | 23.2 | 24.3               | 25.6 | 24.7 | 26.0 | 26.5 |
|                | 6H   | 21.2                 | 22.4 | 21.6 | 22.9 | 23.3 | 25.0               | 26.3 | 25.5 | 26.7 | 27.2 |
|                | 8H   | 21.2                 | 22.4 | 21.7 | 22.9 | 23.3 | 25.4               | 26.6 | 25.9 | 27.1 | 27.5 |
|                | 12H  | 21.2                 | 22.4 | 21.7 | 22.8 | 23.3 | 25.8               | 27.0 | 26.3 | 27.4 | 27.9 |
| 4H             | 2H   | 20.3                 | 21.6 | 20.7 | 22.0 | 22.5 | 21.9               | 23.2 | 22.3 | 23.6 | 24.1 |
|                | 3H   | 21.7                 | 22.8 | 22.1 | 23.3 | 23.8 | 24.0               | 25.2 | 24.5 | 25.6 | 26.1 |
|                | 4H   | 22.2                 | 23.2 | 22.6 | 23.7 | 24.2 | 25.0               | 26.1 | 25.5 | 26.5 | 27.0 |
|                | 6H   | 22.5                 | 23.4 | 23.0 | 23.9 | 24.4 | 26.0               | 26.9 | 26.5 | 27.4 | 27.9 |
|                | 8H   | 22.5                 | 23.4 | 23.0 | 23.9 | 24.4 | 26.4               | 27.3 | 26.9 | 27.8 | 28.3 |
|                | 12H  | 22.6                 | 23.3 | 23.1 | 23.9 | 24.4 | 26.9               | 27.7 | 27.4 | 28.2 | 28.8 |
| 8H             | 4H   | 22.7                 | 23.6 | 23.2 | 24.1 | 24.6 | 25.2               | 26.1 | 25.7 | 26.6 | 27.1 |
|                | 6H   | 23.2                 | 23.9 | 23.7 | 24.4 | 25.0 | 26.3               | 27.0 | 26.8 | 27.6 | 28.1 |
|                | 8H   | 23.3                 | 24.0 | 23.8 | 24.5 | 25.1 | 26.9               | 27.5 | 27.4 | 28.1 | 28.6 |
|                | 12H  | 23.4                 | 24.0 | 23.9 | 24.5 | 25.1 | 27.5               | 28.1 | 28.0 | 28.6 | 29.2 |
| 12H            | 4H   | 22.8                 | 23.6 | 23.3 | 24.1 | 24.7 | 25.2               | 26.0 | 25.7 | 26.5 | 27.1 |
|                | 6H   | 23.4                 | 24.0 | 23.9 | 24.5 | 25.1 | 26.3               | 27.0 | 26.9 | 27.5 | 28.1 |
|                | 8H   | 23.6                 | 24.2 | 24.1 | 24.7 | 25.3 | 27.0               | 27.5 | 27.5 | 28.1 | 28.7 |

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1366.753 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.)