



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 8 SEL25 UV FR 935 @300MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-006(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 8 SEL25 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Four LS3872A 48 LED boards, 3500K

[BALLAST] One KTLD-25-UV-PS450-54-VDIM-LP2 LED driver set at 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                | 2224                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 152                 |
| Total Luminaire Watts           | 14.6                |
| 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)         | 7.67 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                  | 4358             | 3878              | 3760              |
| 55                  | 3797             | 3427              | 3330              |
| 65                  | 3058             | 2878              | 2794              |
| 75                  | 2246             | 2304              | 2189              |
| 85                  | 1363             | 1871              | 1660              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 272.71  | N.A.  | 12.30  |
| 0-30    | 579.88  | N.A.  | 26.10  |
| 0-40    | 949.41  | N.A.  | 42.70  |
| 0-60    | 1663.99 | N.A.  | 74.80  |
| 0-80    | 2073.16 | N.A.  | 93.20  |
| 0-90    | 2152.91 | N.A.  | 96.80  |
| 10-90   | 2082.46 | N.A.  | 93.60  |
| 20-40   | 676.70  | N.A.  | 30.40  |
| 20-50   | 1055.95 | N.A.  | 47.50  |
| 40-70   | 966.61  | N.A.  | 43.50  |
| 60-80   | 409.16  | N.A.  | 18.40  |
| 70-80   | 157.14  | N.A.  | 7.10   |
| 80-90   | 79.75   | N.A.  | 3.60   |
| 90-110  | 53.58   | N.A.  | 2.40   |
| 90-120  | 62.54   | N.A.  | 2.80   |
| 90-130  | 67.28   | N.A.  | 3.00   |
| 90-150  | 70.84   | N.A.  | 3.20   |
| 90-180  | 71.46   | N.A.  | 3.20   |
| 110-180 | 17.89   | N.A.  | 0.80   |
| 0-180   | 2224.37 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 70.44  |
| 10-20   | 202.27 |
| 20-30   | 307.17 |
| 30-40   | 369.53 |
| 40-50   | 379.25 |
| 50-60   | 335.33 |
| 60-70   | 252.03 |
| 70-80   | 157.14 |
| 80-90   | 79.75  |
| 90-100  | 36.16  |
| 100-110 | 17.42  |
| 110-120 | 8.96   |
| 120-130 | 4.74   |
| 130-140 | 2.43   |
| 140-150 | 1.13   |
| 150-160 | 0.48   |
| 160-170 | 0.14   |
| 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  | 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  | 95  | 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 |

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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

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 14.9 | 16.5 | 15.3 | 16.9 | 17.3 | 17.0 | 18.6 | 17.4 | 18.9 | 19.3 |
|      | 3H   | 16.1 | 17.6 | 16.6 | 18.0 | 18.4 | 19.0 | 20.4 | 19.4 | 20.8 | 21.2 |
|      | 4H   | 16.5 | 17.8 | 16.9 | 18.2 | 18.7 | 19.8 | 21.2 | 20.3 | 21.6 | 22.0 |
|      | 6H   | 16.7 | 17.9 | 17.1 | 18.4 | 18.8 | 20.6 | 21.9 | 21.1 | 22.3 | 22.8 |
|      | 8H   | 16.7 | 17.9 | 17.2 | 18.4 | 18.8 | 21.0 | 22.2 | 21.5 | 22.6 | 23.1 |
|      | 12H  | 16.7 | 17.9 | 17.2 | 18.3 | 18.8 | 21.4 | 22.5 | 21.9 | 23.0 | 23.5 |

### UGR Viewed Endwise

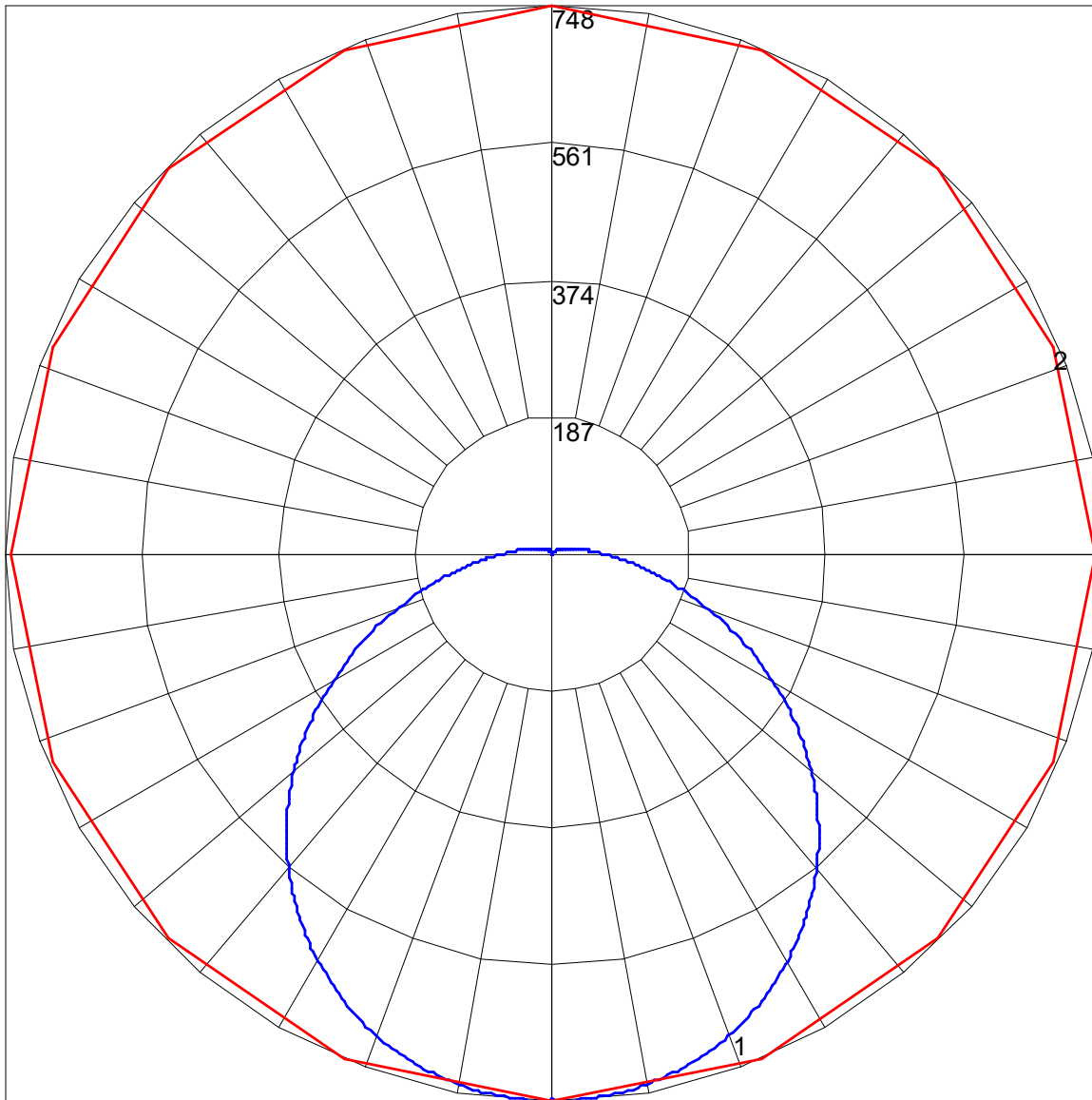
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 15.8 | 17.1 | 16.2 | 17.5 | 18.0 | 17.4 | 18.7 | 17.8 | 19.2 | 19.6 |
|    | 3H  | 17.2 | 18.4 | 17.7 | 18.8 | 19.3 | 19.6 | 20.7 | 20.0 | 21.2 | 21.7 |
|    | 4H  | 17.7 | 18.7 | 18.2 | 19.2 | 19.7 | 20.6 | 21.6 | 21.1 | 22.1 | 22.6 |
|    | 6H  | 18.0 | 18.9 | 18.5 | 19.4 | 19.9 | 21.5 | 22.5 | 22.0 | 23.0 | 23.5 |
|    | 8H  | 18.0 | 18.9 | 18.5 | 19.4 | 19.9 | 22.0 | 22.9 | 22.5 | 23.4 | 23.9 |
|    | 12H | 18.1 | 18.9 | 18.6 | 19.4 | 19.9 | 22.5 | 23.3 | 23.0 | 23.8 | 24.4 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 18.2 | 19.1 | 18.7 | 19.6 | 20.1 | 20.8 | 21.6 | 21.3 | 22.1 | 22.7 |
|    | 6H  | 18.7 | 19.4 | 19.2 | 20.0 | 20.5 | 21.9 | 22.6 | 22.4 | 23.1 | 23.7 |
|    | 8H  | 18.8 | 19.5 | 19.4 | 20.0 | 20.6 | 22.4 | 23.1 | 23.0 | 23.7 | 24.2 |
|    | 12H | 18.9 | 19.5 | 19.5 | 20.0 | 20.7 | 23.1 | 23.7 | 23.6 | 24.2 | 24.8 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 18.3 | 19.1 | 18.9 | 19.7 | 20.2 | 20.8 | 21.5 | 21.3 | 22.1 | 22.6 |
|     | 6H | 18.9 | 19.5 | 19.4 | 20.1 | 20.7 | 21.9 | 22.6 | 22.5 | 23.1 | 23.7 |
|     | 8H | 19.1 | 19.7 | 19.7 | 20.2 | 20.9 | 22.5 | 23.1 | 23.1 | 23.7 | 24.3 |

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 748.108 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.)