



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 6 SEL100 UV FR 935 @1500MA.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 6 SEL100 UV FR 935

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] Three LS3872A 64 LED boards, 3500K

[BALLAST] One KTLD-100-UV-PS1800-54-VDIM-LM2 LED driver set at 1500mA

[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                | 11129               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 150                 |
| Total Luminaire Watts           | 74.3                |
| 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)         | 5.84 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                  | 28534            | 25416             | 24678             |
| 55                  | 24831            | 22448             | 21856             |
| 65                  | 19967            | 18843             | 18339             |
| 75                  | 14608            | 15065             | 14369             |
| 85                  | 8713             | 12211             | 10893             |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : ECL N G2 6 SEL100 UV FR 935 @1500MA.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1364.38  | N.A.  | 12.30  |
| 0-30    | 2901.19  | N.A.  | 26.10  |
| 0-40    | 4749.96  | N.A.  | 42.70  |
| 0-60    | 8325.06  | N.A.  | 74.80  |
| 0-80    | 10372.14 | N.A.  | 93.20  |
| 0-90    | 10771.14 | N.A.  | 96.80  |
| 10-90   | 10418.71 | N.A.  | 93.60  |
| 20-40   | 3385.58  | N.A.  | 30.40  |
| 20-50   | 5282.98  | N.A.  | 47.50  |
| 40-70   | 4836.00  | N.A.  | 43.50  |
| 60-80   | 2047.08  | N.A.  | 18.40  |
| 70-80   | 786.17   | N.A.  | 7.10   |
| 80-90   | 399.01   | N.A.  | 3.60   |
| 90-110  | 268.04   | N.A.  | 2.40   |
| 90-120  | 312.89   | N.A.  | 2.80   |
| 90-130  | 336.61   | N.A.  | 3.00   |
| 90-150  | 354.40   | N.A.  | 3.20   |
| 90-180  | 357.52   | N.A.  | 3.20   |
| 110-180 | 89.48    | N.A.  | 0.80   |
| 0-180   | 11128.67 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 352.44  |
| 10-20   | 1011.95 |
| 20-30   | 1536.8  |
| 30-40   | 1848.78 |
| 40-50   | 1897.4  |
| 50-60   | 1677.7  |
| 60-70   | 1260.91 |
| 70-80   | 786.17  |
| 80-90   | 399.01  |
| 90-100  | 180.91  |
| 100-110 | 87.13   |
| 110-120 | 44.85   |
| 120-130 | 23.72   |
| 130-140 | 12.14   |
| 140-150 | 5.65    |
| 150-160 | 2.42    |
| 160-170 | 0.70    |
| 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  | 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 |

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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

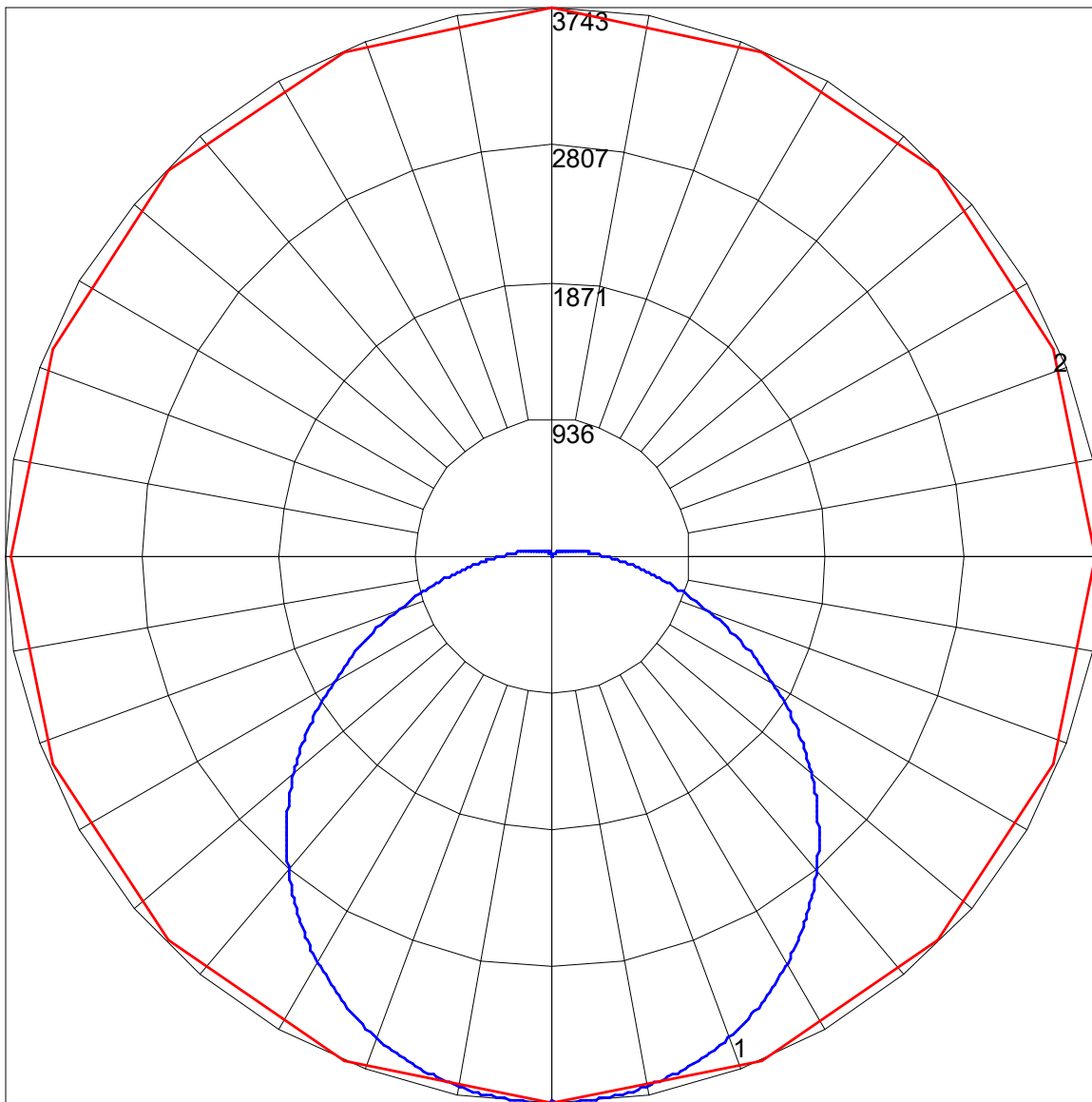
| X=2H | Y=2H | 21.5 | 23.0 | 21.9 | 23.4 | 23.8 | 23.5 | 25.1 | 23.9 | 25.5 | 25.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 22.7 | 24.1 | 23.1 | 24.5 | 24.9 | 25.5 | 26.9 | 25.9 | 27.3 | 27.7 |
|      | 4H   | 23.0 | 24.4 | 23.5 | 24.8 | 25.2 | 26.3 | 27.7 | 26.8 | 28.1 | 28.5 |
|      | 6H   | 23.2 | 24.5 | 23.7 | 24.9 | 25.4 | 27.1 | 28.4 | 27.6 | 28.8 | 29.3 |
|      | 8H   | 23.2 | 24.5 | 23.7 | 24.9 | 25.4 | 27.5 | 28.7 | 28.0 | 29.2 | 29.6 |
|      | 12H  | 23.3 | 24.4 | 23.7 | 24.9 | 25.4 | 27.9 | 29.1 | 28.4 | 29.5 | 30.0 |

### UGR Viewed Endwise

|     |     |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H  | 2H  | 22.3 | 23.7 | 22.8 | 24.1 | 24.5 | 23.9 | 25.3 | 24.4 | 25.7 | 26.1 |
|     | 3H  | 23.7 | 24.9 | 24.2 | 25.3 | 25.8 | 26.1 | 27.3 | 26.6 | 27.7 | 28.2 |
|     | 4H  | 24.2 | 25.3 | 24.7 | 25.7 | 26.2 | 27.1 | 28.1 | 27.6 | 28.6 | 29.1 |
|     | 6H  | 24.5 | 25.4 | 25.0 | 25.9 | 26.5 | 28.1 | 29.0 | 28.6 | 29.5 | 30.0 |
|     | 8H  | 24.6 | 25.4 | 25.1 | 25.9 | 26.5 | 28.5 | 29.4 | 29.0 | 29.9 | 30.4 |
|     | 12H | 24.6 | 25.4 | 25.1 | 25.9 | 26.5 | 29.0 | 29.8 | 29.5 | 30.3 | 30.9 |
| 8H  | 4H  | 24.8 | 25.6 | 25.3 | 26.1 | 26.7 | 27.3 | 28.2 | 27.8 | 28.6 | 29.2 |
|     | 6H  | 25.2 | 25.9 | 25.8 | 26.5 | 27.0 | 28.4 | 29.1 | 28.9 | 29.7 | 30.2 |
|     | 8H  | 25.4 | 26.0 | 25.9 | 26.6 | 27.1 | 29.0 | 29.6 | 29.5 | 30.2 | 30.7 |
|     | 12H | 25.5 | 26.0 | 26.0 | 26.6 | 27.2 | 29.6 | 30.2 | 30.2 | 30.7 | 31.4 |
| 12H | 4H  | 24.9 | 25.7 | 25.4 | 26.2 | 26.7 | 27.3 | 28.1 | 27.8 | 28.6 | 29.1 |
|     | 6H  | 25.4 | 26.1 | 26.0 | 26.6 | 27.2 | 28.4 | 29.1 | 29.0 | 29.6 | 30.2 |
|     | 8H  | 25.6 | 26.2 | 26.2 | 26.8 | 27.4 | 29.1 | 29.6 | 29.6 | 30.2 | 30.8 |

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 3742.836 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.)