



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 SEL15 UV FR 940 @300MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/6/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL N G2 2 SEL15 UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMPCAT] One LS3872A 28 LED board, 4000K

[BALLAST] One KTLD-15-UV-PS300-54-VDIM-LP1 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                | 1960                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 139                 |
| Total Luminaire Watts           | 14.1                |
| 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)         | 1.99 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                  | 14147            | 12927             | 12760             |
| 55                  | 12116            | 11323             | 11304             |
| 65                  | 9604             | 9458              | 9587              |
| 75                  | 6894             | 7584              | 7665              |
| 85                  | 3809             | 6150              | 6040              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 239.62  | N.A.  | 12.20  |
| 0-30    | 509.81  | N.A.  | 26.00  |
| 0-40    | 834.36  | N.A.  | 42.60  |
| 0-60    | 1458.29 | N.A.  | 74.40  |
| 0-80    | 1818.16 | N.A.  | 92.80  |
| 0-90    | 1890.74 | N.A.  | 96.50  |
| 10-90   | 1828.88 | N.A.  | 93.30  |
| 20-40   | 594.74  | N.A.  | 30.30  |
| 20-50   | 926.41  | N.A.  | 47.30  |
| 40-70   | 844.31  | N.A.  | 43.10  |
| 60-80   | 359.86  | N.A.  | 18.40  |
| 70-80   | 139.48  | N.A.  | 7.10   |
| 80-90   | 72.59   | N.A.  | 3.70   |
| 90-110  | 50.20   | N.A.  | 2.60   |
| 90-120  | 58.87   | N.A.  | 3.00   |
| 90-130  | 63.63   | N.A.  | 3.20   |
| 90-150  | 67.90   | N.A.  | 3.50   |
| 90-180  | 69.10   | N.A.  | 3.50   |
| 110-180 | 18.90   | N.A.  | 1.00   |
| 0-180   | 1959.84 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 61.86  |
| 10-20   | 177.76 |
| 20-30   | 270.19 |
| 30-40   | 324.55 |
| 40-50   | 331.67 |
| 50-60   | 292.26 |
| 60-70   | 220.38 |
| 70-80   | 139.48 |
| 80-90   | 72.59  |
| 90-100  | 33.73  |
| 100-110 | 16.47  |
| 110-120 | 8.67   |
| 120-130 | 4.76   |
| 130-140 | 2.72   |
| 140-150 | 1.55   |
| 150-160 | 0.86   |
| 160-170 | 0.31   |
| 170-180 | 0.03   |

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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 | 96 |
| 1  | 107 | 102 | 98  | 93  | 104 | 99  | 95  | 92  | 95  | 91  | 88  | 90  | 87  | 85  | 86 | 84 | 82 | 79 |
| 2  | 97  | 89  | 82  | 76  | 94  | 87  | 80  | 75  | 82  | 77  | 72  | 79  | 74  | 70  | 75 | 71 | 68 | 66 |
| 3  | 89  | 78  | 70  | 63  | 86  | 76  | 68  | 62  | 73  | 66  | 61  | 69  | 64  | 59  | 66 | 62 | 58 | 55 |
| 4  | 81  | 69  | 60  | 53  | 79  | 67  | 59  | 53  | 64  | 57  | 52  | 62  | 56  | 51  | 59 | 54 | 50 | 47 |
| 5  | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 45  | 58  | 50  | 45  | 55  | 49  | 44  | 53 | 48 | 43 | 41 |
| 6  | 69  | 56  | 47  | 40  | 67  | 54  | 46  | 40  | 52  | 45  | 39  | 50  | 44  | 38  | 48 | 42 | 38 | 36 |
| 7  | 64  | 50  | 42  | 35  | 62  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 44 | 38 | 34 | 32 |
| 8  | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 40 | 35 | 30 | 28 |
| 9  | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 37 | 32 | 27 | 25 |
| 10 | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 29  | 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 | 18.9 | 20.4 | 19.3 | 20.8 | 21.3 | 21.0 | 22.6 | 21.4 | 23.0 | 23.4 |
|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 3H   | 20.1 | 21.5 | 20.5 | 21.9 | 22.4 | 23.0 | 24.4 | 23.5 | 24.8 | 25.3 |
|      | 4H   | 20.4 | 21.8 | 20.9 | 22.2 | 22.7 | 23.9 | 25.2 | 24.3 | 25.6 | 26.1 |
|      | 6H   | 20.6 | 21.9 | 21.1 | 22.3 | 22.8 | 24.7 | 25.9 | 25.2 | 26.4 | 26.9 |
|      | 8H   | 20.7 | 21.9 | 21.2 | 22.3 | 22.8 | 25.1 | 26.3 | 25.6 | 26.7 | 27.2 |
|      | 12H  | 20.7 | 21.8 | 21.2 | 22.3 | 22.8 | 25.5 | 26.6 | 26.0 | 27.1 | 27.6 |

### UGR Viewed Endwise

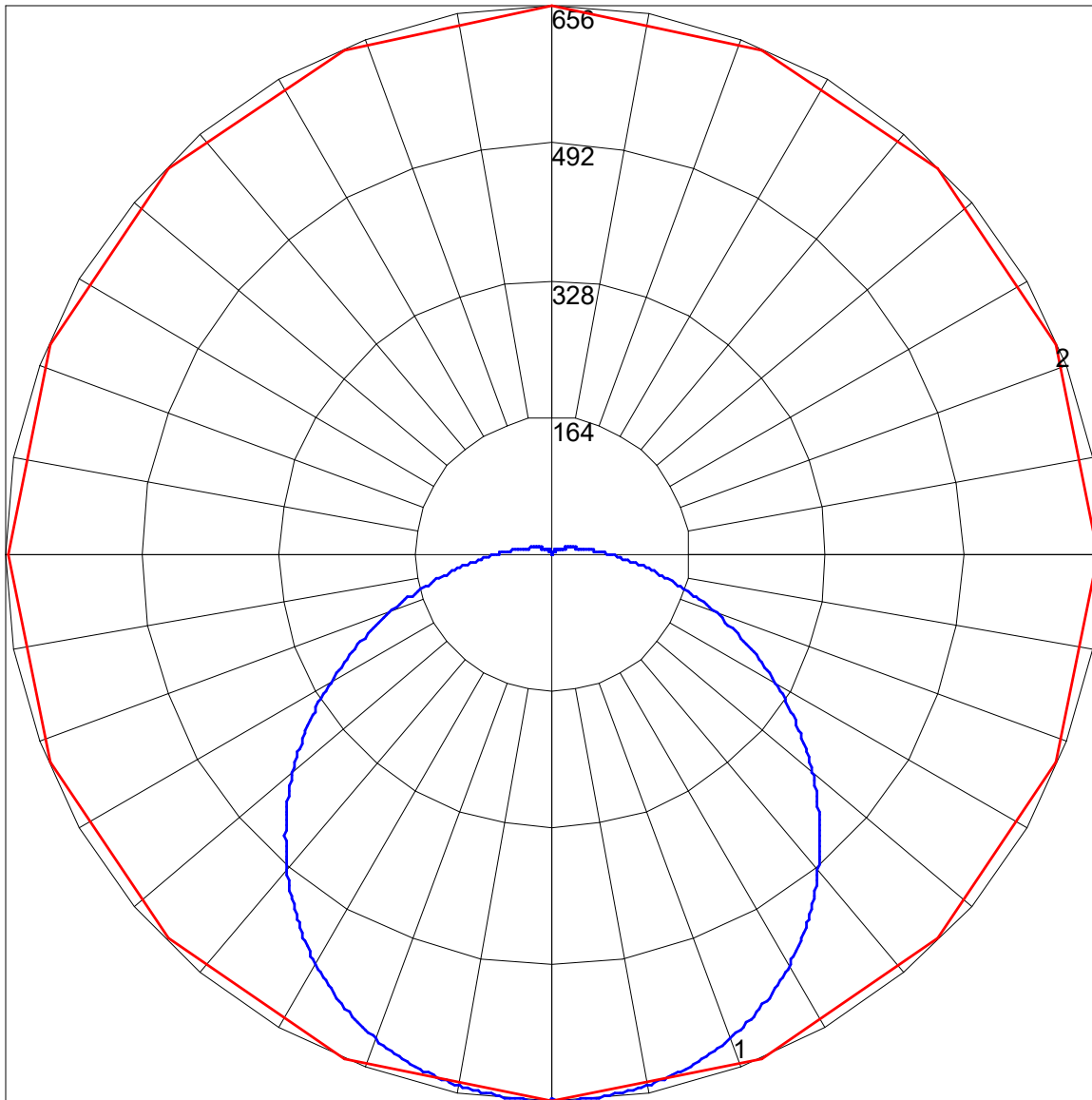
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 19.7 | 21.1 | 20.2 | 21.5 | 22.0 | 21.4 | 22.8 | 21.9 | 23.2 | 23.7 |
|    | 3H  | 21.2 | 22.3 | 21.7 | 22.8 | 23.3 | 23.6 | 24.8 | 24.1 | 25.2 | 25.7 |
|    | 4H  | 21.7 | 22.7 | 22.2 | 23.2 | 23.7 | 24.7 | 25.7 | 25.2 | 26.2 | 26.7 |
|    | 6H  | 22.0 | 22.9 | 22.5 | 23.4 | 23.9 | 25.6 | 26.5 | 26.2 | 27.0 | 27.6 |
|    | 8H  | 22.0 | 22.9 | 22.6 | 23.4 | 23.9 | 26.1 | 26.9 | 26.6 | 27.5 | 28.0 |
|    | 12H | 22.1 | 22.8 | 22.6 | 23.4 | 23.9 | 26.6 | 27.4 | 27.1 | 27.9 | 28.5 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 22.2 | 23.1 | 22.7 | 23.6 | 24.1 | 24.8 | 25.7 | 25.4 | 26.2 | 26.8 |
|    | 6H  | 22.7 | 23.4 | 23.2 | 24.0 | 24.5 | 26.0 | 26.7 | 26.5 | 27.2 | 27.8 |
|    | 8H  | 22.8 | 23.5 | 23.4 | 24.0 | 24.6 | 26.6 | 27.2 | 27.1 | 27.8 | 28.3 |
|    | 12H | 22.9 | 23.5 | 23.5 | 24.0 | 24.7 | 27.2 | 27.8 | 27.8 | 28.3 | 29.0 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 22.3 | 23.1 | 22.9 | 23.7 | 24.2 | 24.8 | 25.6 | 25.4 | 26.1 | 26.7 |
|     | 6H | 22.9 | 23.5 | 23.5 | 24.1 | 24.7 | 26.0 | 26.6 | 26.6 | 27.2 | 27.8 |
|     | 8H | 23.1 | 23.7 | 23.7 | 24.2 | 24.9 | 26.7 | 27.2 | 27.2 | 27.8 | 28.4 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 655.61 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.)