



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL G2 4 SEL75 UV 940 @1400MA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-016(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 6/5/2024

[MANUFAC] LumenFocus, LLC

[LUMCAT] ECL G2 4 SEL75 UV 940

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

[MORE] no enclosure.

[LAMPCAT] Two LS3872A 64 LED boards, 4000K

[BALLAST] One KTLD-75-UV-PS1400-54-VDIM-LM2 LED driver set to 1400mA

[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                | 10962               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 154                 |
| Total Luminaire Watts           | 71.1                |
| 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                  | 26055            | 25182             | 25021             |
| 55                  | 25613            | 24430             | 23757             |
| 65                  | 24204            | 22228             | 21419             |
| 75                  | 20620            | 17439             | 16326             |
| 85                  | 11580            | 7830              | 7038              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1340.63  | N.A.  | 12.20  |
| 0-30    | 2870.97  | N.A.  | 26.20  |
| 0-40    | 4753.21  | N.A.  | 43.40  |
| 0-60    | 8599.87  | N.A.  | 78.50  |
| 0-80    | 10784.65 | N.A.  | 98.40  |
| 0-90    | 10960.77 | N.A.  | 100.00 |
| 10-90   | 10615.63 | N.A.  | 96.80  |
| 20-40   | 3412.58  | N.A.  | 31.10  |
| 20-50   | 5413.16  | N.A.  | 49.40  |
| 40-70   | 5259.18  | N.A.  | 48.00  |
| 60-80   | 2184.77  | N.A.  | 19.90  |
| 70-80   | 772.25   | N.A.  | 7.00   |
| 80-90   | 176.12   | N.A.  | 1.60   |
| 90-110  | 0.96     | N.A.  | 0.00   |
| 90-120  | 0.96     | N.A.  | 0.00   |
| 90-130  | 0.96     | N.A.  | 0.00   |
| 90-150  | 0.96     | N.A.  | 0.00   |
| 90-180  | 0.96     | N.A.  | 0.00   |
| 110-180 | 0.00     | N.A.  | 0.00   |
| 0-180   | 10961.72 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 345.13  |
| 10-20   | 995.50  |
| 20-30   | 1530.34 |
| 30-40   | 1882.24 |
| 40-50   | 2000.58 |
| 50-60   | 1846.08 |
| 60-70   | 1412.52 |
| 70-80   | 772.25  |
| 80-90   | 176.12  |
| 90-100  | 0.96    |
| 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  | 68  | 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

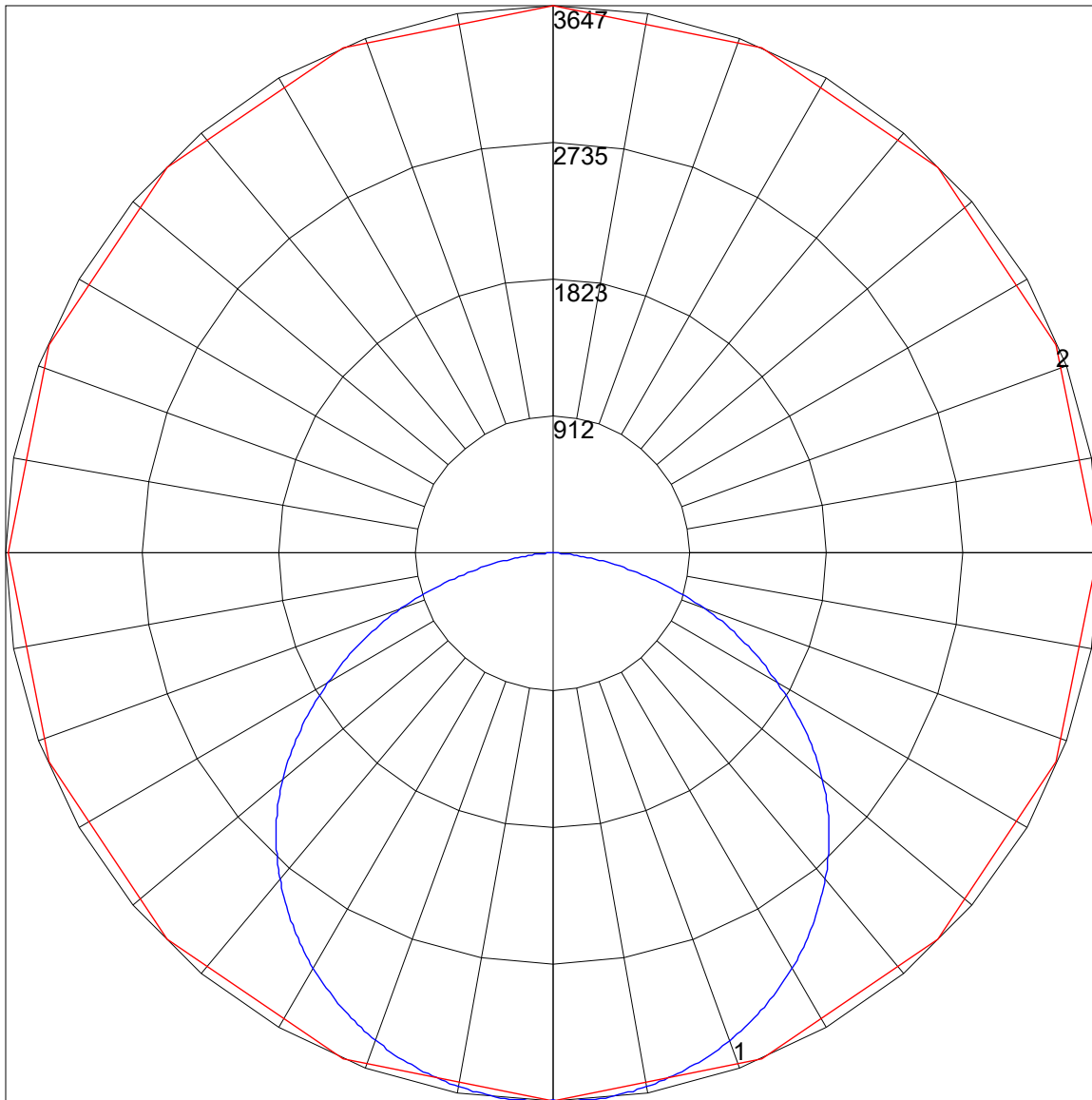
|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls          | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity   | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size      UGR Viewed Crosswise

|      |      |      |      |      |      |      |                    |      |      |      |      |
|------|------|------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 23.3 | 25.0 | 23.7 | 25.3 | 25.6 | UGR Viewed Endwise |      |      |      |      |
|      | 3H   | 25.1 | 26.6 | 25.5 | 26.9 | 27.3 | 23.4               | 25.1 | 23.8 | 25.4 | 25.7 |
|      | 4H   | 25.7 | 27.1 | 26.1 | 27.5 | 27.8 | 25.2               | 26.7 | 25.6 | 27.1 | 27.4 |
|      | 6H   | 26.1 | 27.4 | 26.5 | 27.8 | 28.2 | 25.8               | 27.2 | 26.2 | 27.6 | 28.0 |
|      | 8H   | 26.2 | 27.4 | 26.6 | 27.8 | 28.2 | 26.2               | 27.5 | 26.6 | 27.9 | 28.3 |
|      | 12H  | 26.2 | 27.4 | 26.6 | 27.8 | 28.2 | 26.3               | 27.6 | 26.7 | 27.9 | 28.3 |
|      |      |      |      |      |      |      | 26.3               | 27.6 | 26.8 | 27.9 | 28.4 |
| 4H   | 2H   | 24.0 | 25.4 | 24.4 | 25.7 | 26.1 | 24.1               | 25.5 | 24.5 | 25.8 | 26.2 |
|      | 3H   | 25.9 | 27.1 | 26.3 | 27.5 | 27.9 | 26.0               | 27.2 | 26.4 | 27.6 | 28.0 |
|      | 4H   | 26.7 | 27.7 | 27.1 | 28.1 | 28.6 | 26.7               | 27.8 | 27.1 | 28.2 | 28.6 |
|      | 6H   | 27.2 | 28.1 | 27.6 | 28.5 | 29.0 | 27.2               | 28.1 | 27.7 | 28.6 | 29.0 |
|      | 8H   | 27.3 | 28.1 | 27.7 | 28.6 | 29.1 | 27.3               | 28.2 | 27.8 | 28.7 | 29.1 |
|      | 12H  | 27.3 | 28.1 | 27.8 | 28.6 | 29.1 | 27.4               | 28.2 | 27.9 | 28.7 | 29.2 |
| 8H   | 4H   | 26.9 | 27.8 | 27.4 | 28.2 | 28.7 | 27.0               | 27.9 | 27.4 | 28.3 | 28.8 |
|      | 6H   | 27.5 | 28.2 | 28.0 | 28.7 | 29.2 | 27.5               | 28.3 | 28.0 | 28.8 | 29.2 |
|      | 8H   | 27.6 | 28.3 | 28.2 | 28.8 | 29.3 | 27.7               | 28.4 | 28.2 | 28.9 | 29.4 |
|      | 12H  | 27.8 | 28.3 | 28.3 | 28.8 | 29.4 | 27.8               | 28.4 | 28.3 | 28.9 | 29.5 |
| 12H  | 4H   | 26.9 | 27.7 | 27.4 | 28.2 | 28.7 | 27.0               | 27.8 | 27.5 | 28.3 | 28.7 |
|      | 6H   | 27.5 | 28.2 | 28.0 | 28.6 | 29.2 | 27.6               | 28.2 | 28.1 | 28.7 | 29.2 |
|      | 8H   | 27.7 | 28.3 | 28.2 | 28.8 | 29.3 | 27.8               | 28.4 | 28.3 | 28.8 | 29.4 |

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 3646.753 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.)