



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ECL N G2 2 VH UV FR 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001735-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 5/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] ECL N G2 2 VH UV FR 940

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

[MORE] translucent curved plastic enclosure.

[LAMP] 64 white LEDs on one LS3873A LED board

[BALLAST] One ULT D10CC30UNVPW-C LED driver labeled as 550mA

[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                | 4139                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 142                 |
| Total Luminaire Watts           | 29.1                |
| 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                  | 29879            | 27302             | 26948             |
| 55                  | 25588            | 23914             | 23874             |
| 65                  | 20284            | 19976             | 20248             |
| 75                  | 14561            | 16017             | 16188             |
| 85                  | 8045             | 12989             | 12757             |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 506.09  | N.A.  | 12.20  |
| 0-30    | 1076.73 | N.A.  | 26.00  |
| 0-40    | 1762.19 | N.A.  | 42.60  |
| 0-60    | 3079.95 | N.A.  | 74.40  |
| 0-80    | 3839.98 | N.A.  | 92.80  |
| 0-90    | 3993.28 | N.A.  | 96.50  |
| 10-90   | 3862.64 | N.A.  | 93.30  |
| 20-40   | 1256.11 | N.A.  | 30.30  |
| 20-50   | 1956.59 | N.A.  | 47.30  |
| 40-70   | 1783.2  | N.A.  | 43.10  |
| 60-80   | 760.03  | N.A.  | 18.40  |
| 70-80   | 294.59  | N.A.  | 7.10   |
| 80-90   | 153.30  | N.A.  | 3.70   |
| 90-110  | 106.02  | N.A.  | 2.60   |
| 90-120  | 124.34  | N.A.  | 3.00   |
| 90-130  | 134.40  | N.A.  | 3.20   |
| 90-150  | 143.41  | N.A.  | 3.50   |
| 90-180  | 145.94  | N.A.  | 3.50   |
| 110-180 | 39.92   | N.A.  | 1.00   |
| 0-180   | 4139.22 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 130.65 |
| 10-20   | 375.44 |
| 20-30   | 570.64 |
| 30-40   | 685.47 |
| 40-50   | 700.49 |
| 50-60   | 617.27 |
| 60-70   | 465.45 |
| 70-80   | 294.59 |
| 80-90   | 153.30 |
| 90-100  | 71.23  |
| 100-110 | 34.79  |
| 110-120 | 18.31  |
| 120-130 | 10.06  |
| 130-140 | 5.74   |
| 140-150 | 3.27   |
| 150-160 | 1.81   |
| 160-170 | 0.65   |
| 170-180 | 0.07   |

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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  | 65  | 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  | 41 | 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 |

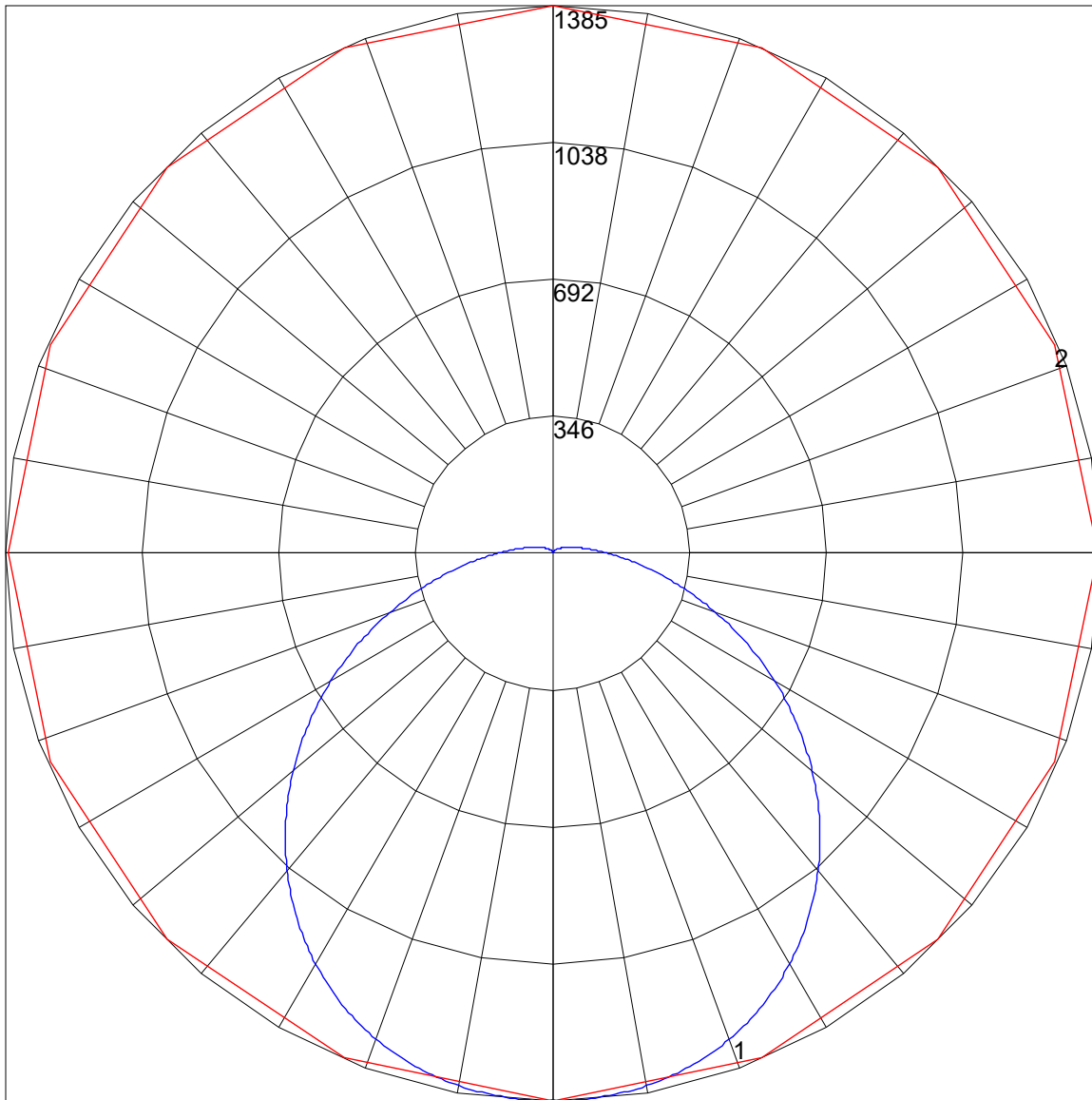
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**UGR TABLE - CORRECTED**

| 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 |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
| X=2H           | Y=2H | 21.5                 | 23.0 | 21.9 | 23.4 | 23.9 | 23.6               | 25.2 | 24.0 | 25.6 | 26.0 |
|                | 3H   | 22.7                 | 24.1 | 23.1 | 24.5 | 25.0 | 25.6               | 27.0 | 26.0 | 27.4 | 27.9 |
|                | 4H   | 23.0                 | 24.4 | 23.5 | 24.8 | 25.3 | 26.5               | 27.8 | 26.9 | 28.2 | 28.7 |
|                | 6H   | 23.2                 | 24.5 | 23.7 | 24.9 | 25.4 | 27.3               | 28.5 | 27.8 | 29.0 | 29.5 |
|                | 8H   | 23.3                 | 24.5 | 23.8 | 24.9 | 25.4 | 27.7               | 28.8 | 28.2 | 29.3 | 29.8 |
|                | 12H  | 23.3                 | 24.4 | 23.8 | 24.9 | 25.4 | 28.1               | 29.2 | 28.6 | 29.7 | 30.2 |
| 4H             | 2H   | 22.3                 | 23.7 | 22.8 | 24.1 | 24.6 | 24.0               | 25.4 | 24.5 | 25.8 | 26.3 |
|                | 3H   | 23.8                 | 24.9 | 24.3 | 25.4 | 25.9 | 26.2               | 27.4 | 26.7 | 27.8 | 28.3 |
|                | 4H   | 24.3                 | 25.3 | 24.8 | 25.8 | 26.3 | 27.3               | 28.3 | 27.7 | 28.8 | 29.3 |
|                | 6H   | 24.6                 | 25.5 | 25.1 | 26.0 | 26.5 | 28.2               | 29.1 | 28.8 | 29.6 | 30.2 |
|                | 8H   | 24.6                 | 25.5 | 25.2 | 26.0 | 26.5 | 28.7               | 29.5 | 29.2 | 30.1 | 30.6 |
|                | 12H  | 24.7                 | 25.4 | 25.2 | 26.0 | 26.5 | 29.2               | 30.0 | 29.7 | 30.5 | 31.1 |
| 8H             | 4H   | 24.8                 | 25.7 | 25.3 | 26.2 | 26.7 | 27.4               | 28.3 | 28.0 | 28.8 | 29.4 |
|                | 6H   | 25.3                 | 26.0 | 25.8 | 26.5 | 27.1 | 28.6               | 29.3 | 29.1 | 29.8 | 30.4 |
|                | 8H   | 25.4                 | 26.1 | 26.0 | 26.6 | 27.2 | 29.1               | 29.8 | 29.7 | 30.4 | 30.9 |
|                | 12H  | 25.5                 | 26.1 | 26.1 | 26.6 | 27.3 | 29.8               | 30.4 | 30.4 | 30.9 | 31.6 |
| 12H            | 4H   | 24.9                 | 25.7 | 25.5 | 26.2 | 26.8 | 27.4               | 28.2 | 28.0 | 28.7 | 29.3 |
|                | 6H   | 25.5                 | 26.1 | 26.1 | 26.7 | 27.3 | 28.6               | 29.2 | 29.2 | 29.8 | 30.4 |
|                | 8H   | 25.7                 | 26.3 | 26.3 | 26.8 | 27.5 | 29.3               | 29.8 | 29.8 | 30.4 | 31.0 |

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 1384.661 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.)