



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 MD UV FRA 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-008A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 7/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] NVL G2 4 MD UV FRA 940

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed  
[MORE] white painted steel LED tray/reflector, translucent linear stepped plastic  
[MORE] lens.

[LAMP] 96 white LEDs on two LS3872A7-4000K-R90 LED boards with 48 LEDs  
[MORE] each.

[BALLAST] One ULT Everline D15CC55UNVPW-C LED driver labeled as 870mA

[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                | 5966                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 135                 |
| Total Luminaire Watts           | 44.2                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.22                |
| Spacing Criterion (90-270)      | 1.20                |
| Spacing Criterion (Diagonal)    | 1.32                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.27 ft             |
| Luminous Width (90-270)         | 0.54 ft             |
| Luminous Height                 | 0.16 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 7682             | 6661              | 6513              |
| 55                  | 6591             | 5695              | 5860              |
| 65                  | 5332             | 4849              | 5438              |
| 75                  | 4072             | 4233              | 5047              |
| 85                  | 2585             | 3831              | 4559              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 731.62  | N.A.  | 12.30  |
| 0-30    | 1526.54 | N.A.  | 25.60  |
| 0-40    | 2470.1  | N.A.  | 41.40  |
| 0-60    | 4265.32 | N.A.  | 71.50  |
| 0-80    | 5384.27 | N.A.  | 90.20  |
| 0-90    | 5652.31 | N.A.  | 94.70  |
| 10-90   | 5460.34 | N.A.  | 91.50  |
| 20-40   | 1738.48 | N.A.  | 29.10  |
| 20-50   | 2693.19 | N.A.  | 45.10  |
| 40-70   | 2456.54 | N.A.  | 41.20  |
| 60-80   | 1118.95 | N.A.  | 18.80  |
| 70-80   | 457.63  | N.A.  | 7.70   |
| 80-90   | 268.04  | N.A.  | 4.50   |
| 90-110  | 244.16  | N.A.  | 4.10   |
| 90-120  | 291.01  | N.A.  | 4.90   |
| 90-130  | 309.23  | N.A.  | 5.20   |
| 90-150  | 313.69  | N.A.  | 5.30   |
| 90-180  | 314.02  | N.A.  | 5.30   |
| 110-180 | 69.86   | N.A.  | 1.20   |
| 0-180   | 5966.33 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 191.96 |
| 10-20   | 539.65 |
| 20-30   | 794.92 |
| 30-40   | 943.56 |
| 40-50   | 954.71 |
| 50-60   | 840.51 |
| 60-70   | 661.32 |
| 70-80   | 457.63 |
| 80-90   | 268.04 |
| 90-100  | 153.32 |
| 100-110 | 90.84  |
| 110-120 | 46.85  |
| 120-130 | 18.22  |
| 130-140 | 3.52   |
| 140-150 | 0.94   |
| 150-160 | 0.33   |
| 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  | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 95 |
| 1  | 106 | 101 | 96  | 92  | 103 | 98  | 94  | 90  | 93  | 90  | 86  | 88  | 85  | 83  | 84 | 82 | 79 | 77 |
| 2  | 97  | 88  | 81  | 75  | 93  | 86  | 79  | 73  | 81  | 76  | 71  | 77  | 72  | 68  | 73 | 69 | 66 | 64 |
| 3  | 88  | 77  | 69  | 62  | 85  | 75  | 67  | 61  | 71  | 65  | 59  | 68  | 62  | 58  | 65 | 60 | 56 | 53 |
| 4  | 81  | 68  | 59  | 52  | 78  | 67  | 58  | 52  | 63  | 56  | 51  | 60  | 54  | 49  | 58 | 52 | 48 | 46 |
| 5  | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 57  | 49  | 44  | 54  | 48  | 43  | 52 | 46 | 42 | 40 |
| 6  | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 51  | 44  | 38  | 49  | 43  | 38  | 47 | 41 | 37 | 35 |
| 7  | 63  | 50  | 41  | 35  | 61  | 49  | 40  | 35  | 47  | 39  | 34  | 45  | 38  | 33  | 43 | 37 | 33 | 31 |
| 8  | 59  | 46  | 37  | 31  | 57  | 45  | 37  | 31  | 43  | 36  | 30  | 41  | 35  | 30  | 40 | 34 | 29 | 27 |
| 9  | 55  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37 | 31 | 27 | 25 |
| 10 | 52  | 39  | 31  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 35  | 29  | 25  | 34 | 28 | 24 | 22 |

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**UGR TABLE - CORRECTED**

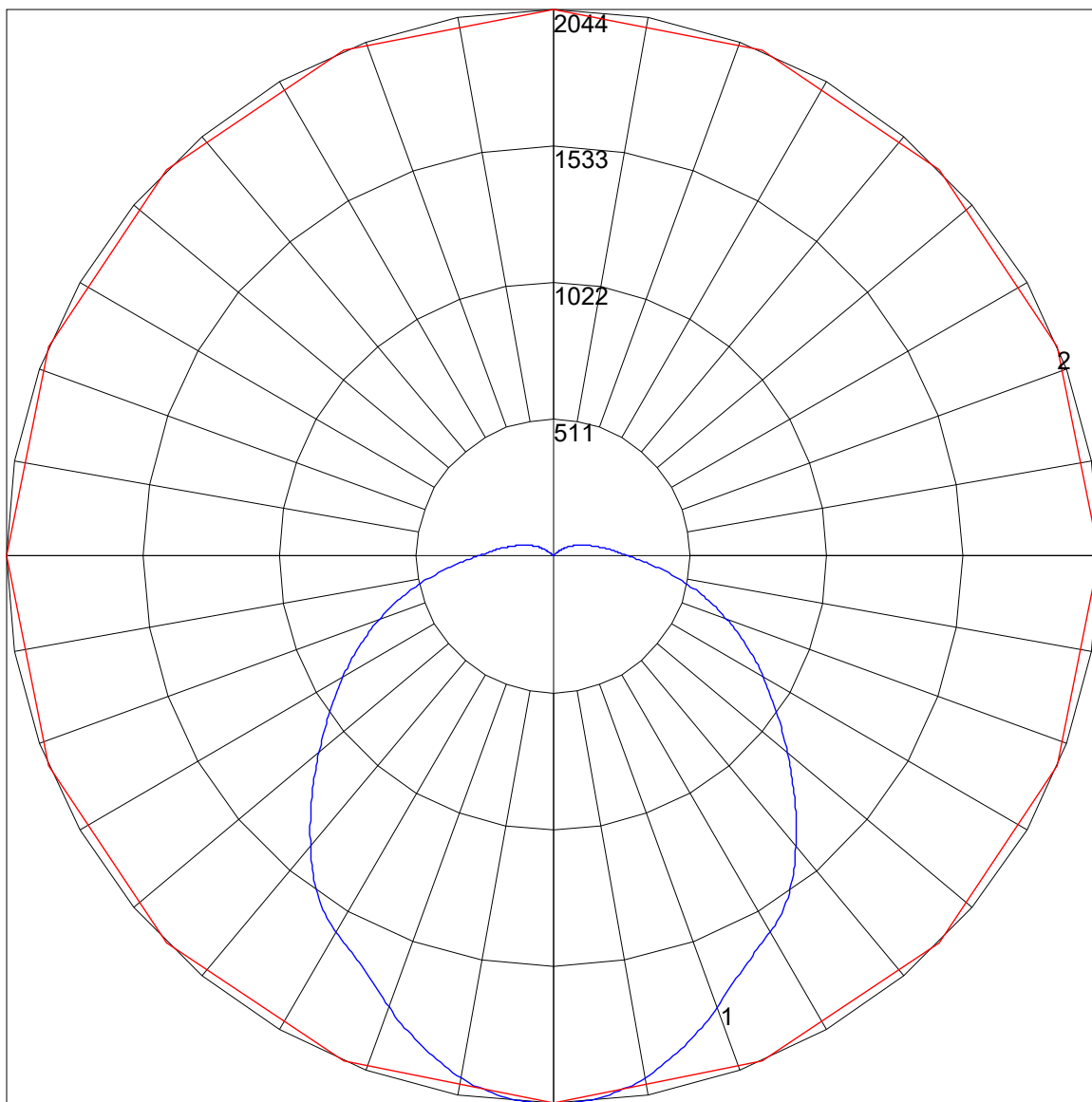
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 16.7                 | 18.2 | 17.1 | 18.7 | 19.1 | 18.4               | 20.0 | 18.9 | 20.4 | 20.8 |
|           | 3H   | 18.0                 | 19.4 | 18.4 | 19.8 | 20.3 | 20.8               | 22.2 | 21.3 | 22.6 | 23.1 |
|           | 4H   | 18.4                 | 19.7 | 18.9 | 20.2 | 20.7 | 21.9               | 23.3 | 22.4 | 23.7 | 24.2 |
|           | 6H   | 18.7                 | 19.9 | 19.2 | 20.4 | 20.9 | 23.0               | 24.3 | 23.5 | 24.7 | 25.2 |
|           | 8H   | 18.7                 | 19.9 | 19.2 | 20.4 | 20.9 | 23.5               | 24.7 | 24.0 | 25.2 | 25.7 |
|           | 12H  | 18.7                 | 19.9 | 19.3 | 20.4 | 20.9 | 24.1               | 25.2 | 24.6 | 25.7 | 26.3 |
| 4H        | 2H   | 17.4                 | 18.8 | 17.9 | 19.2 | 19.7 | 18.8               | 20.2 | 19.3 | 20.6 | 21.1 |
|           | 3H   | 19.0                 | 20.1 | 19.5 | 20.6 | 21.1 | 21.4               | 22.6 | 21.9 | 23.1 | 23.6 |
|           | 4H   | 19.5                 | 20.6 | 20.0 | 21.1 | 21.6 | 22.7               | 23.8 | 23.2 | 24.3 | 24.8 |
|           | 6H   | 19.9                 | 20.8 | 20.4 | 21.3 | 21.9 | 24.0               | 24.9 | 24.6 | 25.5 | 26.0 |
|           | 8H   | 20.0                 | 20.9 | 20.5 | 21.4 | 22.0 | 24.7               | 25.5 | 25.2 | 26.0 | 26.6 |
|           | 12H  | 20.1                 | 20.8 | 20.6 | 21.4 | 22.0 | 25.3               | 26.1 | 25.9 | 26.7 | 27.2 |
| 8H        | 4H   | 20.1                 | 21.0 | 20.7 | 21.5 | 22.1 | 22.9               | 23.8 | 23.5 | 24.3 | 24.9 |
|           | 6H   | 20.7                 | 21.4 | 21.2 | 22.0 | 22.6 | 24.4               | 25.1 | 24.9 | 25.7 | 26.3 |
|           | 8H   | 20.9                 | 21.5 | 21.4 | 22.1 | 22.7 | 25.1               | 25.8 | 25.7 | 26.4 | 27.0 |
|           | 12H  | 21.0                 | 21.6 | 21.6 | 22.2 | 22.8 | 26.0               | 26.6 | 26.6 | 27.1 | 27.8 |
| 12H       | 4H   | 20.3                 | 21.1 | 20.9 | 21.6 | 22.2 | 22.9               | 23.7 | 23.5 | 24.3 | 24.9 |
|           | 6H   | 21.0                 | 21.6 | 21.5 | 22.2 | 22.8 | 24.4               | 25.1 | 25.0 | 25.6 | 26.3 |
|           | 8H   | 21.2                 | 21.8 | 21.8 | 22.4 | 23.0 | 25.2               | 25.8 | 25.8 | 26.4 | 27.1 |

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2043.89 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.)