



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 4 HI UV FRA 930.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-008A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 7/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] NVL G2 4 HI UV FRA 930

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

[LAMP] 128 white LEDs on two LS3872A8-3000K-R90 LED boards with 64 LEDs  
[MORE] each.

[BALLAST] One ULT Everline D15CC55UNVPW-C LED driver labeled as 1160mA

[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                | 7738                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 133                 |
| Total Luminaire Watts           | 58.4                |
| 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                  | 9963             | 8639              | 8447              |
| 55                  | 8548             | 7387              | 7600              |
| 65                  | 6916             | 6289              | 7053              |
| 75                  | 5281             | 5490              | 6546              |
| 85                  | 3352             | 4969              | 5913              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 948.89  | N.A.  | 12.30  |
| 0-30    | 1979.9  | N.A.  | 25.60  |
| 0-40    | 3203.68 | N.A.  | 41.40  |
| 0-60    | 5532.04 | N.A.  | 71.50  |
| 0-80    | 6983.3  | N.A.  | 90.20  |
| 0-90    | 7330.94 | N.A.  | 94.70  |
| 10-90   | 7081.97 | N.A.  | 91.50  |
| 20-40   | 2254.78 | N.A.  | 29.10  |
| 20-50   | 3493.02 | N.A.  | 45.10  |
| 40-70   | 3186.08 | N.A.  | 41.20  |
| 60-80   | 1451.26 | N.A.  | 18.80  |
| 70-80   | 593.54  | N.A.  | 7.70   |
| 80-90   | 347.64  | N.A.  | 4.50   |
| 90-110  | 316.67  | N.A.  | 4.10   |
| 90-120  | 377.43  | N.A.  | 4.90   |
| 90-130  | 401.07  | N.A.  | 5.20   |
| 90-150  | 406.86  | N.A.  | 5.30   |
| 90-180  | 407.28  | N.A.  | 5.30   |
| 110-180 | 90.61   | N.A.  | 1.20   |
| 0-180   | 7738.23 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 248.97  |
| 10-20   | 699.92  |
| 20-30   | 1031.00 |
| 30-40   | 1223.78 |
| 40-50   | 1238.24 |
| 50-60   | 1090.13 |
| 60-70   | 857.72  |
| 70-80   | 593.54  |
| 80-90   | 347.64  |
| 90-100  | 198.86  |
| 100-110 | 117.81  |
| 110-120 | 60.76   |
| 120-130 | 23.64   |
| 130-140 | 4.57    |
| 140-150 | 1.22    |
| 150-160 | 0.43    |
| 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  | 85  | 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 |

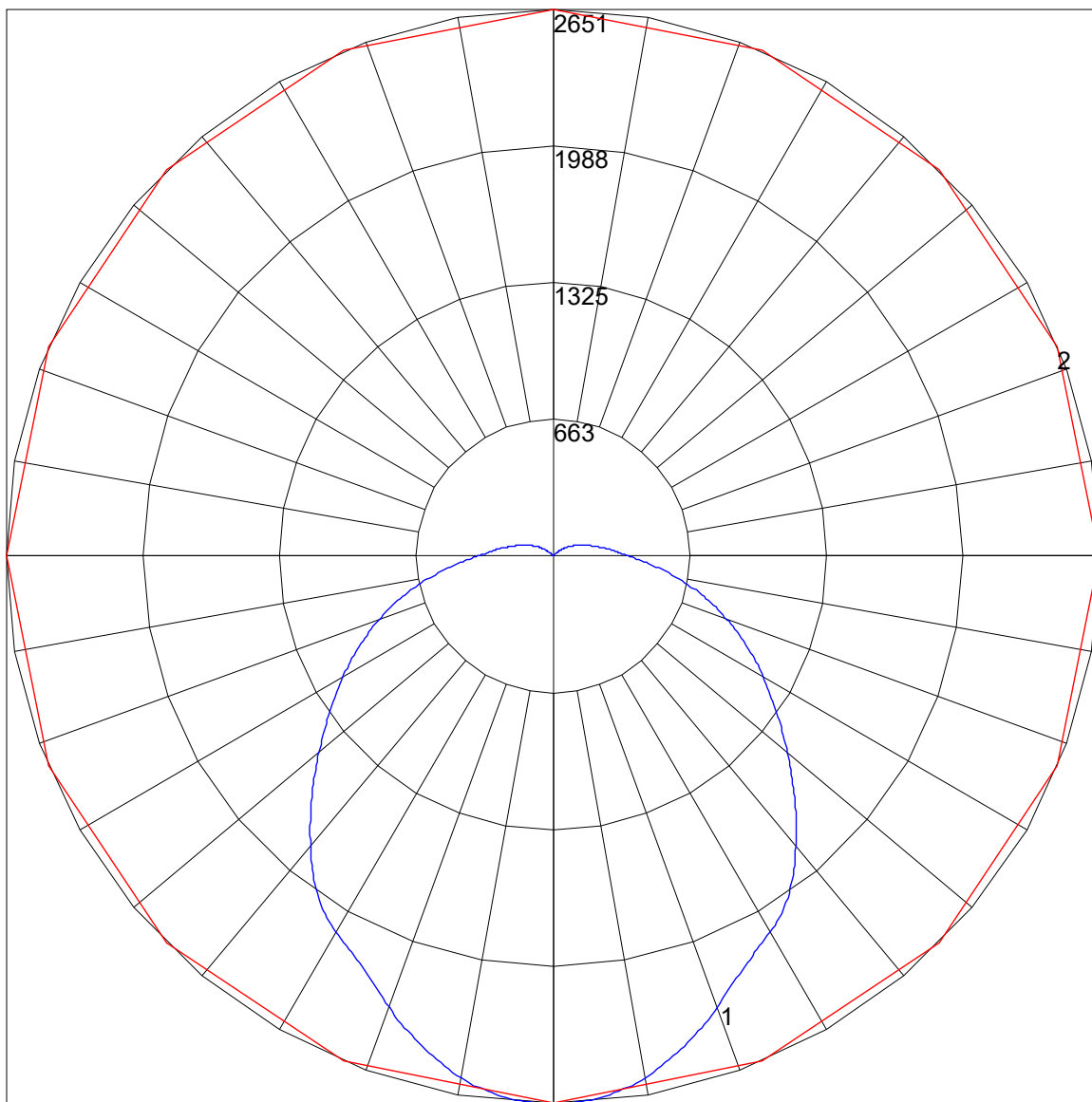
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**UGR TABLE - CORRECTED**

| 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 | 17.6                 | 19.1 | 18.0 | 19.6 | 20.0 | 19.3               | 20.9 | 19.8 | 21.3 | 21.7 |
|                | 3H   | 18.9                 | 20.3 | 19.3 | 20.7 | 21.2 | 21.7               | 23.1 | 22.2 | 23.5 | 24.0 |
|                | 4H   | 19.3                 | 20.6 | 19.8 | 21.1 | 21.6 | 22.8               | 24.2 | 23.3 | 24.6 | 25.1 |
|                | 6H   | 19.6                 | 20.8 | 20.1 | 21.3 | 21.8 | 23.9               | 25.2 | 24.4 | 25.6 | 26.1 |
|                | 8H   | 19.6                 | 20.8 | 20.1 | 21.3 | 21.8 | 24.4               | 25.6 | 24.9 | 26.1 | 26.6 |
|                | 12H  | 19.6                 | 20.8 | 20.2 | 21.3 | 21.8 | 25.0               | 26.1 | 25.5 | 26.6 | 27.2 |
| 4H             | 2H   | 18.3                 | 19.7 | 18.8 | 20.1 | 20.6 | 19.7               | 21.1 | 20.2 | 21.5 | 22.0 |
|                | 3H   | 19.9                 | 21.0 | 20.4 | 21.5 | 22.0 | 22.3               | 23.5 | 22.8 | 24.0 | 24.5 |
|                | 4H   | 20.4                 | 21.5 | 20.9 | 22.0 | 22.5 | 23.6               | 24.7 | 24.1 | 25.2 | 25.7 |
|                | 6H   | 20.8                 | 21.7 | 21.3 | 22.2 | 22.8 | 24.9               | 25.8 | 25.5 | 26.4 | 26.9 |
|                | 8H   | 20.9                 | 21.8 | 21.4 | 22.3 | 22.9 | 25.6               | 26.4 | 26.1 | 26.9 | 27.5 |
|                | 12H  | 21.0                 | 21.7 | 21.5 | 22.3 | 22.9 | 26.2               | 27.0 | 26.8 | 27.6 | 28.1 |
| 8H             | 4H   | 21.0                 | 21.9 | 21.6 | 22.4 | 23.0 | 23.8               | 24.7 | 24.4 | 25.2 | 25.8 |
|                | 6H   | 21.6                 | 22.3 | 22.1 | 22.9 | 23.5 | 25.3               | 26.0 | 25.8 | 26.6 | 27.2 |
|                | 8H   | 21.8                 | 22.4 | 22.3 | 23.0 | 23.6 | 26.0               | 26.7 | 26.6 | 27.3 | 27.9 |
|                | 12H  | 21.9                 | 22.5 | 22.5 | 23.1 | 23.7 | 26.9               | 27.5 | 27.5 | 28.0 | 28.7 |
| 12H            | 4H   | 21.2                 | 22.0 | 21.8 | 22.5 | 23.1 | 23.8               | 24.6 | 24.4 | 25.2 | 25.7 |
|                | 6H   | 21.9                 | 22.5 | 22.4 | 23.1 | 23.7 | 25.3               | 26.0 | 25.9 | 26.5 | 27.2 |
|                | 8H   | 22.1                 | 22.7 | 22.7 | 23.3 | 23.9 | 26.1               | 26.7 | 26.7 | 27.3 | 28.0 |

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 2650.889 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.)