



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 2 SH UV FRA 940.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-005(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 7/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] NVL G2 2 SH 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] 84 white LEDs on one LS3872A10-4000K-R90 LED board

[BALLAST] One ULT Everline D15CC55UNVPW-C LED driver at 1010mA

[OTHER] 120.0Vac, 60.00Hz, 0.3840A, 45.25W, 0.982PF, 7.2%THD(i)

[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                | 6229                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 138                 |
| Total Luminaire Watts           | 45.2                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.24                |
| Spacing Criterion (90-270)      | 1.28                |
| Spacing Criterion (Diagonal)    | 1.38                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 2.27 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                  | 14336            | 12957             | 12607             |
| 55                  | 12526            | 11200             | 12641             |
| 65                  | 10361            | 10238             | 11888             |
| 75                  | 8087             | 8470              | 9602              |
| 85                  | 5503             | 6276              | 6917              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 740.39  | N.A.  | 11.90  |
| 0-30    | 1576.03 | N.A.  | 25.30  |
| 0-40    | 2572.72 | N.A.  | 41.30  |
| 0-60    | 4491.03 | N.A.  | 72.10  |
| 0-80    | 5734.31 | N.A.  | 92.10  |
| 0-90    | 5980.89 | N.A.  | 96.00  |
| 10-90   | 5790.22 | N.A.  | 93.00  |
| 20-40   | 1832.33 | N.A.  | 29.40  |
| 20-50   | 2834.01 | N.A.  | 45.50  |
| 40-70   | 2667.19 | N.A.  | 42.80  |
| 60-80   | 1243.28 | N.A.  | 20.00  |
| 70-80   | 494.40  | N.A.  | 7.90   |
| 80-90   | 246.58  | N.A.  | 4.00   |
| 90-110  | 185.21  | N.A.  | 3.00   |
| 90-120  | 225.16  | N.A.  | 3.60   |
| 90-130  | 242.49  | N.A.  | 3.90   |
| 90-150  | 247.87  | N.A.  | 4.00   |
| 90-180  | 248.10  | N.A.  | 4.00   |
| 110-180 | 62.89   | N.A.  | 1.00   |
| 0-180   | 6229.00 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 190.67  |
| 10-20   | 549.71  |
| 20-30   | 835.65  |
| 30-40   | 996.69  |
| 40-50   | 1001.68 |
| 50-60   | 916.63  |
| 60-70   | 748.88  |
| 70-80   | 494.40  |
| 80-90   | 246.58  |
| 90-100  | 115.69  |
| 100-110 | 69.52   |
| 110-120 | 39.95   |
| 120-130 | 17.33   |
| 130-140 | 4.18    |
| 140-150 | 1.20    |
| 150-160 | 0.23    |
| 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 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1  | 107 | 102 | 97  | 93  | 104 | 99  | 95  | 91  | 94  | 90  | 87  | 89  | 86  | 84  | 85 | 83 | 81 | 78 |
| 2  | 97  | 88  | 81  | 75  | 94  | 86  | 79  | 74  | 82  | 76  | 71  | 78  | 73  | 69  | 74 | 70 | 67 | 64 |
| 3  | 88  | 77  | 69  | 62  | 85  | 75  | 67  | 61  | 72  | 65  | 59  | 68  | 63  | 58  | 65 | 60 | 56 | 54 |
| 4  | 81  | 68  | 59  | 52  | 78  | 67  | 58  | 52  | 64  | 56  | 50  | 61  | 54  | 49  | 58 | 53 | 48 | 46 |
| 5  | 74  | 61  | 52  | 45  | 72  | 59  | 51  | 44  | 57  | 49  | 44  | 54  | 48  | 43  | 52 | 46 | 42 | 40 |
| 6  | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 51  | 44  | 38  | 49  | 43  | 37  | 47 | 41 | 37 | 35 |
| 7  | 63  | 50  | 41  | 35  | 61  | 49  | 40  | 34  | 47  | 39  | 34  | 45  | 38  | 33  | 43 | 37 | 33 | 31 |
| 8  | 59  | 45  | 37  | 31  | 57  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40 | 34 | 29 | 27 |
| 9  | 55  | 42  | 33  | 28  | 53  | 41  | 33  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37 | 31 | 26 | 25 |
| 10 | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 34 | 28 | 24 | 22 |

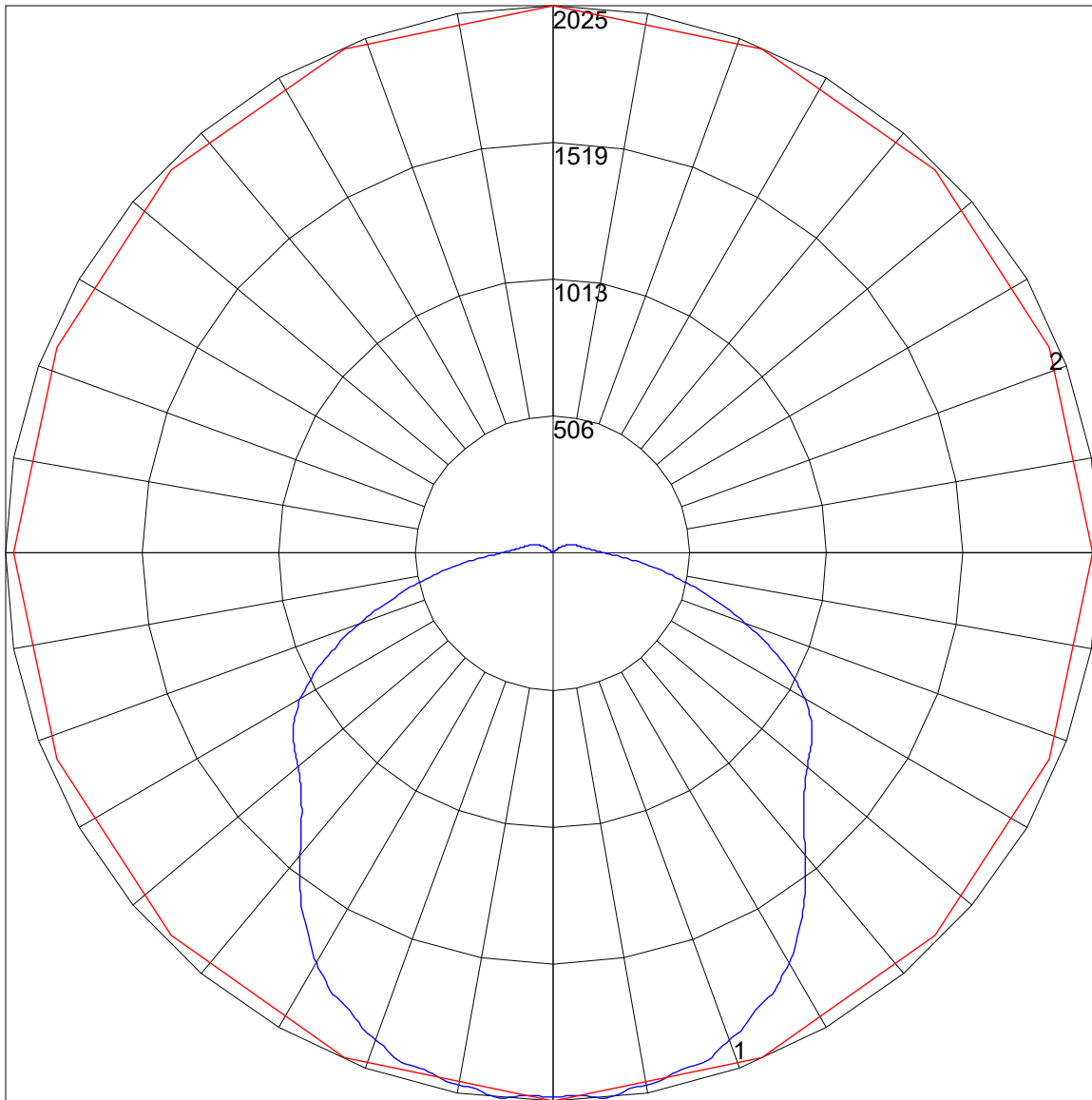
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**UGR TABLE - CORRECTED**

| 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 | 19.2                 | 20.8 | 19.6 | 21.2 | 21.6 | 21.4               | 23.0 | 21.9 | 23.4 | 23.8 |
|                | 3H   | 20.6                 | 22.0 | 21.0 | 22.4 | 22.9 | 23.7               | 25.1 | 24.1 | 25.5 | 26.0 |
|                | 4H   | 21.1                 | 22.4 | 21.5 | 22.8 | 23.3 | 24.6               | 25.9 | 25.1 | 26.4 | 26.8 |
|                | 6H   | 21.4                 | 22.6 | 21.9 | 23.1 | 23.6 | 25.4               | 26.6 | 25.9 | 27.1 | 27.6 |
|                | 8H   | 21.5                 | 22.7 | 22.0 | 23.1 | 23.6 | 25.7               | 26.9 | 26.2 | 27.4 | 27.9 |
|                | 12H  | 21.5                 | 22.7 | 22.0 | 23.1 | 23.7 | 26.0               | 27.2 | 26.5 | 27.6 | 28.2 |
| 4H             | 2H   | 20.1                 | 21.4 | 20.5 | 21.9 | 22.3 | 21.8               | 23.2 | 22.3 | 23.6 | 24.1 |
|                | 3H   | 21.7                 | 22.9 | 22.2 | 23.3 | 23.8 | 24.3               | 25.5 | 24.8 | 25.9 | 26.4 |
|                | 4H   | 22.3                 | 23.3 | 22.8 | 23.8 | 24.3 | 25.4               | 26.4 | 25.9 | 26.9 | 27.4 |
|                | 6H   | 22.7                 | 23.6 | 23.2 | 24.2 | 24.7 | 26.4               | 27.3 | 26.9 | 27.8 | 28.3 |
|                | 8H   | 22.8                 | 23.7 | 23.4 | 24.2 | 24.8 | 26.8               | 27.6 | 27.3 | 28.1 | 28.7 |
|                | 12H  | 22.9                 | 23.7 | 23.5 | 24.3 | 24.8 | 27.2               | 27.9 | 27.7 | 28.5 | 29.0 |
| 8H             | 4H   | 22.9                 | 23.7 | 23.4 | 24.3 | 24.8 | 25.6               | 26.4 | 26.1 | 26.9 | 27.5 |
|                | 6H   | 23.4                 | 24.2 | 24.0 | 24.7 | 25.3 | 26.7               | 27.4 | 27.2 | 28.0 | 28.5 |
|                | 8H   | 23.7                 | 24.3 | 24.2 | 24.9 | 25.5 | 27.2               | 27.9 | 27.8 | 28.4 | 29.0 |
|                | 12H  | 23.8                 | 24.4 | 24.4 | 24.9 | 25.6 | 27.7               | 28.3 | 28.3 | 28.9 | 29.5 |
| 12H            | 4H   | 23.0                 | 23.8 | 23.5 | 24.3 | 24.9 | 25.6               | 26.4 | 26.1 | 26.9 | 27.5 |
|                | 6H   | 23.7                 | 24.3 | 24.2 | 24.8 | 25.5 | 26.7               | 27.4 | 27.3 | 27.9 | 28.5 |
|                | 8H   | 23.9                 | 24.5 | 24.5 | 25.1 | 25.7 | 27.3               | 27.9 | 27.9 | 28.4 | 29.1 |

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 2025 Located At Horizontal Angle = 90, Vertical Angle = 5.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5.5) (Through Max. Cd.)