



IES INDOOR REPORT

PHOTOMETRIC FILENAME : NVL G2 8 MD UV FRA 950.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 8 MD UV FRA 950

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed

[MORE] white painted steel LED tray/reflector, translucent linear stepped plastic

[MORE] lens.

[LAMP] 192 white LEDs on four LS3872A7-5000K-R90 LED boards with 48 LEDs

[MORE] each.

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 1420mA

[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 | 9874 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| Total Luminaire Watts | 69.8 |
| 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) | 8.27 ft |
| Luminous Width (90-270) | 0.54 ft |
| Luminous Height | 0.16 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6679 | 5751 | 5566 |
| 55 | 5771 | 4933 | 5008 |
| 65 | 4723 | 4219 | 4647 |
| 75 | 3694 | 3711 | 4313 |
| 85 | 2576 | 3408 | 3896 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1210.8 | N.A. | 12.30 |
| 0-30 | 2526.38 | N.A. | 25.60 |
| 0-40 | 4087.94 | N.A. | 41.40 |
| 0-60 | 7058.97 | N.A. | 71.50 |
| 0-80 | 8910.79 | N.A. | 90.20 |
| 0-90 | 9354.39 | N.A. | 94.70 |
| 10-90 | 9036.69 | N.A. | 91.50 |
| 20-40 | 2877.14 | N.A. | 29.10 |
| 20-50 | 4457.15 | N.A. | 45.10 |
| 40-70 | 4065.49 | N.A. | 41.20 |
| 60-80 | 1851.83 | N.A. | 18.80 |
| 70-80 | 757.36 | N.A. | 7.70 |
| 80-90 | 443.59 | N.A. | 4.50 |
| 90-110 | 404.08 | N.A. | 4.10 |
| 90-120 | 481.61 | N.A. | 4.90 |
| 90-130 | 511.77 | N.A. | 5.20 |
| 90-150 | 519.15 | N.A. | 5.30 |
| 90-180 | 519.70 | N.A. | 5.30 |
| 110-180 | 115.62 | N.A. | 1.20 |
| 0-180 | 9874.08 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 317.69 |
| 10-20 | 893.11 |
| 20-30 | 1315.57 |
| 30-40 | 1561.56 |
| 40-50 | 1580.01 |
| 50-60 | 1391.02 |
| 60-70 | 1094.46 |
| 70-80 | 757.36 |
| 80-90 | 443.59 |
| 90-100 | 253.75 |
| 100-110 | 150.33 |
| 110-120 | 77.53 |
| 120-130 | 30.16 |
| 130-140 | 5.83 |
| 140-150 | 1.55 |
| 150-160 | 0.55 |
| 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 |

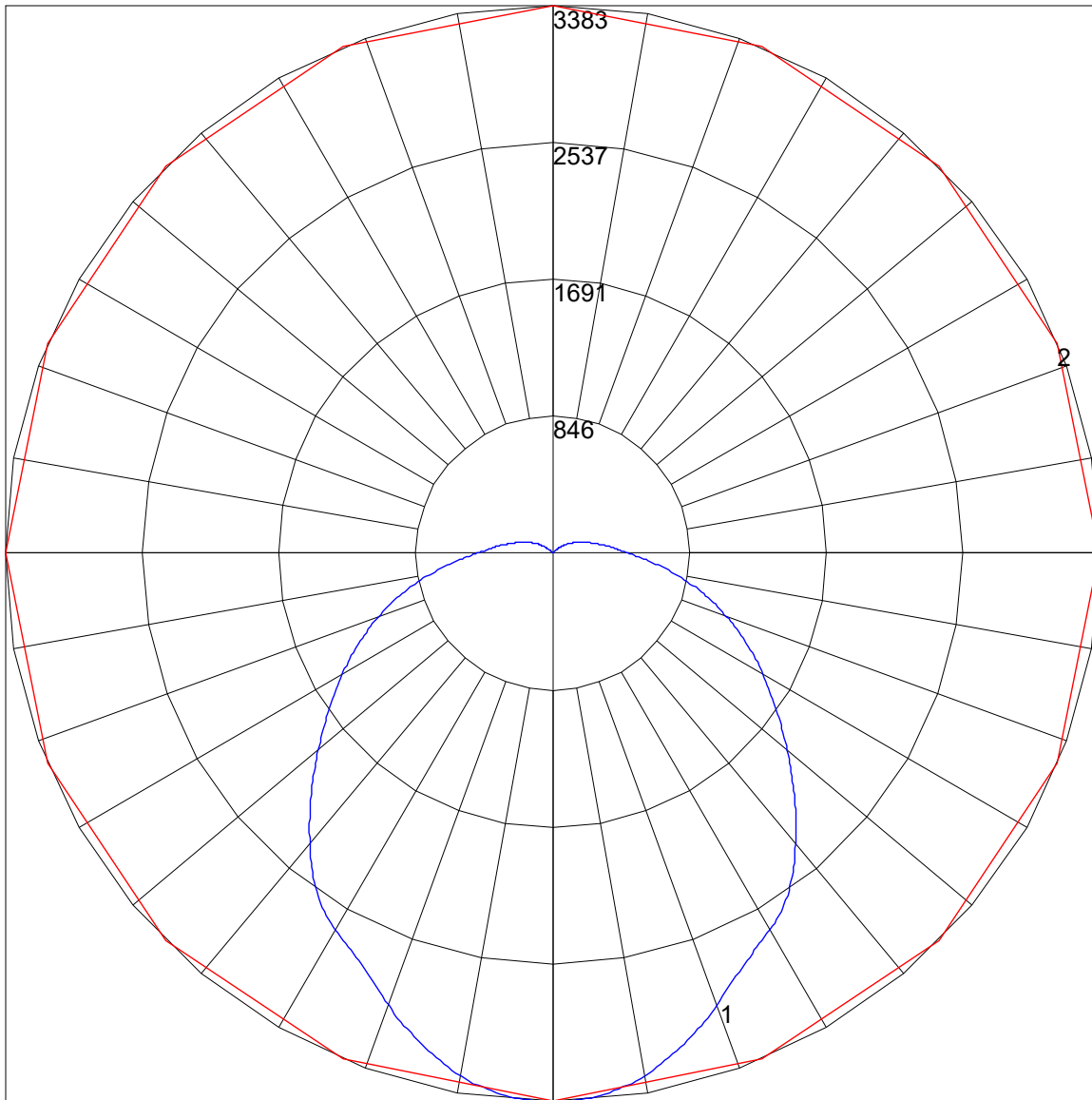
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UGR TABLE - CORRECTED

| 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 | 16.2 | 17.8 | 16.7 | 18.2 | 18.6 | 18.0 | 19.6 | 18.5 | 20.0 | 20.4 |
| | 3H | 17.5 | 18.9 | 18.0 | 19.3 | 19.8 | 20.4 | 21.8 | 20.9 | 22.3 | 22.7 |
| | 4H | 17.9 | 19.3 | 18.4 | 19.7 | 20.2 | 21.6 | 22.9 | 22.0 | 23.3 | 23.8 |
| | 6H | 18.2 | 19.4 | 18.7 | 19.9 | 20.4 | 22.7 | 23.9 | 23.2 | 24.4 | 24.9 |
| | 8H | 18.2 | 19.4 | 18.7 | 19.9 | 20.4 | 23.2 | 24.4 | 23.7 | 24.9 | 25.4 |
| | 12H | 18.3 | 19.4 | 18.8 | 19.9 | 20.4 | 23.8 | 25.0 | 24.3 | 25.4 | 26.0 |
| 4H | 2H | 17.0 | 18.3 | 17.4 | 18.7 | 19.2 | 18.4 | 19.7 | 18.9 | 20.2 | 20.7 |
| | 3H | 18.5 | 19.7 | 19.0 | 20.1 | 20.7 | 21.0 | 22.2 | 21.5 | 22.7 | 23.2 |
| | 4H | 19.1 | 20.1 | 19.6 | 20.6 | 21.1 | 22.4 | 23.4 | 22.9 | 23.9 | 24.4 |
| | 6H | 19.4 | 20.3 | 20.0 | 20.9 | 21.4 | 23.7 | 24.6 | 24.2 | 25.1 | 25.7 |
| | 8H | 19.5 | 20.4 | 20.1 | 20.9 | 21.5 | 24.3 | 25.2 | 24.9 | 25.7 | 26.3 |
| | 12H | 19.6 | 20.4 | 20.2 | 20.9 | 21.5 | 25.0 | 25.8 | 25.6 | 26.4 | 27.0 |
| 8H | 4H | 19.7 | 20.5 | 20.2 | 21.1 | 21.7 | 22.6 | 23.4 | 23.1 | 23.9 | 24.5 |
| | 6H | 20.2 | 21.0 | 20.8 | 21.5 | 22.1 | 24.0 | 24.8 | 24.6 | 25.3 | 25.9 |
| | 8H | 20.4 | 21.1 | 21.0 | 21.7 | 22.3 | 24.8 | 25.5 | 25.4 | 26.1 | 26.7 |
| | 12H | 20.5 | 21.1 | 21.1 | 21.7 | 22.4 | 25.7 | 26.3 | 26.3 | 26.9 | 27.5 |
| 12H | 4H | 19.9 | 20.6 | 20.4 | 21.2 | 21.8 | 22.6 | 23.3 | 23.1 | 23.9 | 24.5 |
| | 6H | 20.5 | 21.2 | 21.1 | 21.7 | 22.4 | 24.1 | 24.7 | 24.7 | 25.3 | 25.9 |
| | 8H | 20.8 | 21.4 | 21.3 | 21.9 | 22.6 | 24.9 | 25.5 | 25.5 | 26.1 | 26.7 |

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 3382.572 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.)