



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WV L G2 4 HI UV FA 940.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001796-019A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 7/8/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] WV L G2 4 HI UV FA 940

[LUMINAIRE] Surface/pendant mounted, formed white plastic housing, formed
[MORE] white painted steel LED tray/reflector, translucent drop plastic lens with
[MORE] linear prisms on the sides.

[LAMP] 504 white LEDs on six LS3872A10-4000K-R90 LED boards with 84 LEDs
[MORE] each.

[BALLAST] Two ULT Everline D28CC95UVPA12-F LED drivers at 2180mA

[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 | 28194 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 149 |
| Total Luminaire Watts | 189.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.29 ft |
| Luminous Width (90-270) | 1.18 ft |
| Luminous Height | 0.23 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 17698 | 15981 | 15498 |
| 55 | 15588 | 13615 | 13633 |
| 65 | 13109 | 11318 | 12004 |
| 75 | 10432 | 9227 | 10347 |
| 85 | 6745 | 6951 | 8508 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 3561.34 | N.A. | 12.60 |
| 0-30 | 7564.57 | N.A. | 26.80 |
| 0-40 | 12339.72 | N.A. | 43.80 |
| 0-60 | 21241.69 | N.A. | 75.30 |
| 0-80 | 26311.4 | N.A. | 93.30 |
| 0-90 | 27234.39 | N.A. | 96.60 |
| 10-90 | 26314.23 | N.A. | 93.30 |
| 20-40 | 8778.37 | N.A. | 31.10 |
| 20-50 | 13561.11 | N.A. | 48.10 |
| 40-70 | 12005.88 | N.A. | 42.60 |
| 60-80 | 5069.71 | N.A. | 18.00 |
| 70-80 | 1965.81 | N.A. | 7.00 |
| 80-90 | 922.98 | N.A. | 3.30 |
| 90-110 | 623.58 | N.A. | 2.20 |
| 90-120 | 791.41 | N.A. | 2.80 |
| 90-130 | 893.31 | N.A. | 3.20 |
| 90-150 | 958.12 | N.A. | 3.40 |
| 90-180 | 959.39 | N.A. | 3.40 |
| 110-180 | 335.81 | N.A. | 1.20 |
| 0-180 | 28193.78 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 920.15 |
| 10-20 | 2641.19 |
| 20-30 | 4003.23 |
| 30-40 | 4775.15 |
| 40-50 | 4782.73 |
| 50-60 | 4119.24 |
| 60-70 | 3103.9 |
| 70-80 | 1965.81 |
| 80-90 | 922.98 |
| 90-100 | 383.22 |
| 100-110 | 240.36 |
| 110-120 | 167.83 |
| 120-130 | 101.90 |
| 130-140 | 49.55 |
| 140-150 | 15.25 |
| 150-160 | 1.27 |
| 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 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 92 | 89 | 90 | 88 | 85 | 86 | 84 | 82 | 80 |
| 2 | 98 | 89 | 82 | 77 | 95 | 87 | 81 | 75 | 83 | 78 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | 66 |
| 3 | 89 | 78 | 70 | 64 | 86 | 77 | 69 | 63 | 73 | 67 | 61 | 70 | 64 | 60 | 67 | 62 | 58 | 56 |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 65 | 58 | 52 | 62 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 54 | 48 | 44 | 42 |
| 6 | 69 | 56 | 47 | 41 | 67 | 55 | 47 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 49 | 43 | 39 | 36 |
| 7 | 64 | 51 | 42 | 36 | 62 | 50 | 42 | 36 | 48 | 41 | 35 | 46 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 35 | 29 | 25 | 24 |

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UGR TABLE - CORRECTED

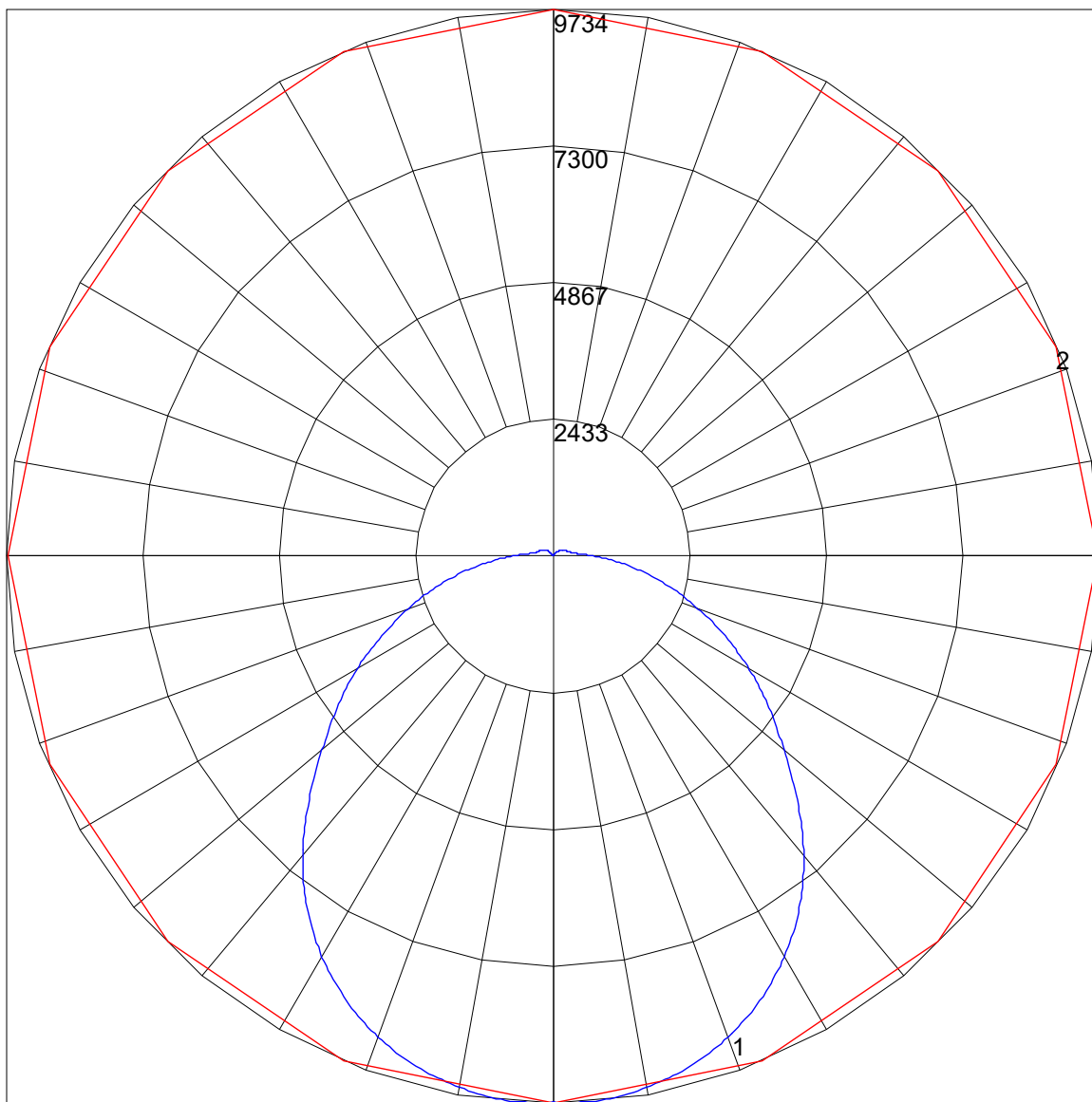
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 20.4 | 21.9 | 20.8 | 22.3 | 22.7 | 21.1 | 22.6 | 21.5 | 23.0 | 23.4 |
| | 3H | 21.8 | 23.2 | 22.3 | 23.6 | 24.1 | 23.0 | 24.4 | 23.5 | 24.8 | 25.3 |
| | 4H | 22.3 | 23.7 | 22.8 | 24.1 | 24.6 | 23.9 | 25.2 | 24.3 | 25.6 | 26.1 |
| | 6H | 22.7 | 23.9 | 23.1 | 24.3 | 24.8 | 24.7 | 25.9 | 25.1 | 26.3 | 26.8 |
| | 8H | 22.8 | 23.9 | 23.3 | 24.4 | 24.9 | 25.0 | 26.2 | 25.5 | 26.7 | 27.2 |
| | 12H | 22.8 | 23.9 | 23.3 | 24.4 | 24.9 | 25.3 | 26.5 | 25.8 | 26.9 | 27.5 |
| 4H | 2H | 21.0 | 22.3 | 21.4 | 22.7 | 23.2 | 21.5 | 22.8 | 22.0 | 23.3 | 23.7 |
| | 3H | 22.7 | 23.8 | 23.1 | 24.2 | 24.7 | 23.7 | 24.8 | 24.2 | 25.3 | 25.8 |
| | 4H | 23.3 | 24.3 | 23.8 | 24.8 | 25.3 | 24.7 | 25.7 | 25.2 | 26.2 | 26.8 |
| | 6H | 23.7 | 24.6 | 24.3 | 25.1 | 25.7 | 25.7 | 26.6 | 26.2 | 27.1 | 27.6 |
| | 8H | 23.9 | 24.7 | 24.4 | 25.2 | 25.8 | 26.1 | 26.9 | 26.6 | 27.5 | 28.0 |
| | 12H | 24.0 | 24.7 | 24.5 | 25.2 | 25.8 | 26.5 | 27.3 | 27.1 | 27.8 | 28.4 |
| 8H | 4H | 23.7 | 24.5 | 24.2 | 25.0 | 25.6 | 25.0 | 25.8 | 25.5 | 26.3 | 26.9 |
| | 6H | 24.2 | 24.9 | 24.8 | 25.5 | 26.1 | 26.0 | 26.7 | 26.6 | 27.3 | 27.9 |
| | 8H | 24.4 | 25.1 | 25.0 | 25.6 | 26.2 | 26.6 | 27.2 | 27.2 | 27.8 | 28.4 |
| | 12H | 24.6 | 25.1 | 25.1 | 25.7 | 26.3 | 27.1 | 27.7 | 27.7 | 28.3 | 28.9 |
| 12H | 4H | 23.8 | 24.5 | 24.3 | 25.0 | 25.6 | 25.0 | 25.7 | 25.5 | 26.3 | 26.8 |
| | 6H | 24.4 | 25.0 | 25.0 | 25.5 | 26.2 | 26.1 | 26.7 | 26.7 | 27.3 | 27.9 |
| | 8H | 24.6 | 25.2 | 25.2 | 25.7 | 26.4 | 26.7 | 27.2 | 27.2 | 27.8 | 28.4 |

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 9733.994 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)