



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 8 LW UV 835.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001853-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 9/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL A G2 8 LW UV 835

[LUMINAIRE] Surface/pendant mounted, formed white painted steel housing,

[MORE] formed and fabricated specular aluminum reflector, no enclosure.

[LAMP] 896 white LEDs, eight M12CC835D112N2U LED boards with 112 LEDs each

[BALLAST] Two ULT D28CC95UVPA12-F LED drivers set at 1870mA

[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 | 29759 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 166 |
| Total Luminaire Watts | 179.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.04 |
| Spacing Criterion (Diagonal) | 1.22 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 7.83 ft |
| Luminous Width (90-270) | 0.52 ft |
| Luminous Height | 0.03 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 45710 | 23261 | 6690 |
| 55 | 44293 | 6103 | 58 |
| 65 | 41059 | 168 | 23 |
| 75 | 34122 | 110 | 9 |
| 85 | 17812 | 21 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 5925.71 | N.A. | 19.90 |
| 0-30 | 12437.86 | N.A. | 41.80 |
| 0-40 | 19418.35 | N.A. | 65.30 |
| 0-60 | 27686.42 | N.A. | 93.00 |
| 0-80 | 29653.71 | N.A. | 99.60 |
| 0-90 | 29758.73 | N.A. | 100.00 |
| 10-90 | 28232.74 | N.A. | 94.90 |
| 20-40 | 13492.64 | N.A. | 45.30 |
| 20-50 | 18695.58 | N.A. | 62.80 |
| 40-70 | 9743.93 | N.A. | 32.70 |
| 60-80 | 1967.29 | N.A. | 6.60 |
| 70-80 | 491.44 | N.A. | 1.70 |
| 80-90 | 105.02 | N.A. | 0.40 |
| 90-110 | 0.20 | N.A. | 0.00 |
| 90-120 | 0.20 | N.A. | 0.00 |
| 90-130 | 0.20 | N.A. | 0.00 |
| 90-150 | 0.20 | N.A. | 0.00 |
| 90-180 | 0.20 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 29758.93 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1525.99 |
| 10-20 | 4399.71 |
| 20-30 | 6512.16 |
| 30-40 | 6980.48 |
| 40-50 | 5202.94 |
| 50-60 | 3065.14 |
| 60-70 | 1475.85 |
| 70-80 | 491.44 |
| 80-90 | 105.02 |
| 90-100 | 0.20 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 71 | 70 |
| 4 | 89 | 79 | 72 | 67 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 74 | 69 | 65 | 72 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 55 |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 60 | 55 | 51 | 50 |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 |

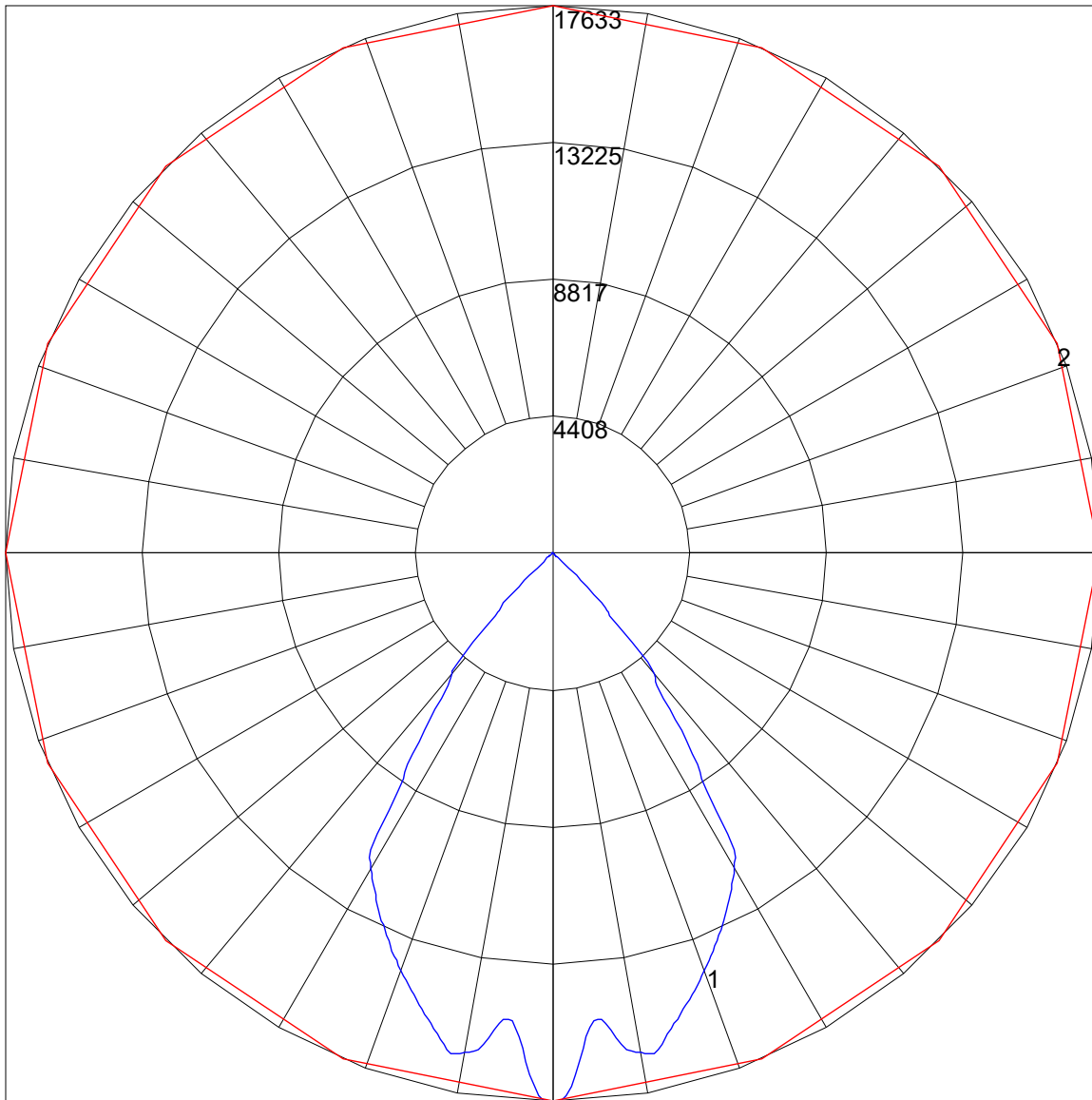
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UGR TABLE - CORRECTED

| 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 | 25.8 | 27.2 | 26.2 | 27.5 | 27.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 3H | 26.9 | 28.1 | 27.3 | 28.4 | 28.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 4H | 27.3 | 28.5 | 27.8 | 28.8 | 29.2 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 6H | 27.7 | 28.7 | 28.1 | 29.1 | 29.5 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 8H | 27.8 | 28.8 | 28.2 | 29.2 | 29.6 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 12H | 27.9 | 28.8 | 28.3 | 29.2 | 29.6 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 4H | 2H | 25.6 | 26.7 | 26.0 | 27.1 | 27.5 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 3H | 26.7 | 27.6 | 27.1 | 28.0 | 28.4 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 4H | 27.1 | 27.9 | 27.5 | 28.3 | 28.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 6H | 27.5 | 28.2 | 28.0 | 28.7 | 29.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 8H | 27.7 | 28.3 | 28.1 | 28.8 | 29.2 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 12H | 27.7 | 28.3 | 28.2 | 28.8 | 29.3 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 8H | 4H | 27.0 | 27.6 | 27.5 | 28.1 | 28.5 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 6H | 27.4 | 27.9 | 27.9 | 28.4 | 28.9 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 8H | 27.5 | 28.0 | 28.0 | 28.5 | 29.0 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 12H | 27.6 | 28.0 | 28.1 | 28.5 | 29.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 12H | 4H | 26.9 | 27.5 | 27.4 | 28.0 | 28.5 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 6H | 27.3 | 27.8 | 27.9 | 28.3 | 28.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| | 8H | 27.4 | 27.9 | 28.0 | 28.4 | 28.9 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 17633.323 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.)