



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4 MD HE UV FR 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-010A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4 MD HE UV FR 850

[LUMINAIRE] Surface/pendant mounted, formed white enamel aluminum housing/reflectors,
[MORE] frosted plastic enclosures below LEDs.

[LAMP] 672 white LEDs, six 20103 5000K 3437A1 LED boards with 112 LEDs
[MORE] each.

[BALLAST] Two ULT Everline D15CC55UNVPW-C LED drivers each programmed at 1190mA

[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 | 19259 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 168 |
| Total Luminaire Watts | 114.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.79 ft |
| Luminous Width (90-270) | 0.92 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 18829 | 19910 | 20680 |
| 55 | 16526 | 19195 | 20511 |
| 65 | 13521 | 18454 | 19996 |
| 75 | 10204 | 16118 | 12732 |
| 85 | 6597 | 11879 | 9198 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2513.31 | N.A. | 13.00 |
| 0-30 | 5334.74 | N.A. | 27.70 |
| 0-40 | 8728.21 | N.A. | 45.30 |
| 0-60 | 15343.49 | N.A. | 79.70 |
| 0-80 | 18932.22 | N.A. | 98.30 |
| 0-90 | 19256.47 | N.A. | 100.00 |
| 10-90 | 18605.75 | N.A. | 96.60 |
| 20-40 | 6214.9 | N.A. | 32.30 |
| 20-50 | 9708.91 | N.A. | 50.40 |
| 40-70 | 8978.83 | N.A. | 46.60 |
| 60-80 | 3588.74 | N.A. | 18.60 |
| 70-80 | 1225.19 | N.A. | 6.40 |
| 80-90 | 324.25 | N.A. | 1.70 |
| 90-110 | 2.81 | N.A. | 0.00 |
| 90-120 | 2.81 | N.A. | 0.00 |
| 90-130 | 2.81 | N.A. | 0.00 |
| 90-150 | 2.81 | N.A. | 0.00 |
| 90-180 | 2.81 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 19259.29 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 650.73 |
| 10-20 | 1862.58 |
| 20-30 | 2821.43 |
| 30-40 | 3393.47 |
| 40-50 | 3494.01 |
| 50-60 | 3121.27 |
| 60-70 | 2363.55 |
| 70-80 | 1225.19 |
| 80-90 | 324.25 |
| 90-100 | 2.63 |
| 100-110 | 0.18 |
| 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 65 | 58 | 53 | 62 | 57 | 53 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 31 | 26 | 24 |

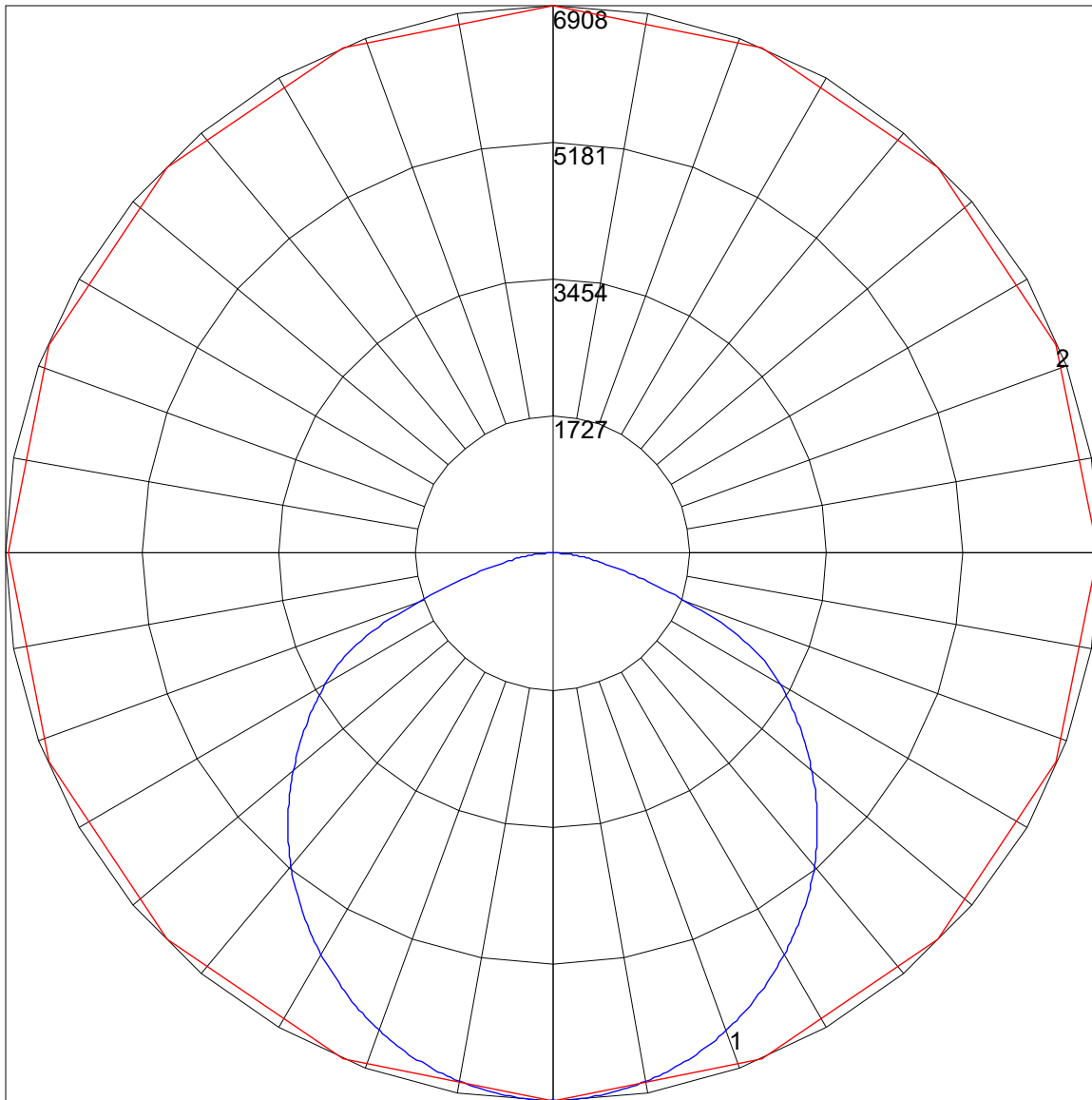
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UGR TABLE - CORRECTED

| 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 | 21.6 | 23.2 | 22.0 | 23.5 | 23.9 | 23.0 | 24.7 | 23.4 | 25.0 | 25.3 |
| | 3H | 23.1 | 24.6 | 23.5 | 24.9 | 25.3 | 24.8 | 26.3 | 25.2 | 26.6 | 27.0 |
| | 4H | 23.6 | 25.0 | 24.0 | 25.3 | 25.7 | 25.2 | 26.6 | 25.6 | 27.0 | 27.3 |
| | 6H | 23.9 | 25.2 | 24.3 | 25.6 | 26.0 | 25.5 | 26.8 | 25.9 | 27.1 | 27.5 |
| | 8H | 24.0 | 25.3 | 24.5 | 25.6 | 26.0 | 25.6 | 26.8 | 26.0 | 27.2 | 27.6 |
| | 12H | 24.1 | 25.3 | 24.5 | 25.6 | 26.1 | 25.6 | 26.8 | 26.0 | 27.2 | 27.6 |
| 4H | 2H | 22.5 | 23.9 | 22.9 | 24.2 | 24.6 | 23.6 | 25.0 | 24.0 | 25.3 | 25.7 |
| | 3H | 24.2 | 25.4 | 24.7 | 25.8 | 26.2 | 25.6 | 26.8 | 26.0 | 27.2 | 27.6 |
| | 4H | 24.9 | 25.9 | 25.3 | 26.3 | 26.8 | 26.1 | 27.2 | 26.6 | 27.6 | 28.0 |
| | 6H | 25.3 | 26.3 | 25.8 | 26.7 | 27.2 | 26.5 | 27.4 | 26.9 | 27.8 | 28.3 |
| | 8H | 25.5 | 26.3 | 26.0 | 26.8 | 27.3 | 26.6 | 27.5 | 27.1 | 27.9 | 28.4 |
| | 12H | 25.6 | 26.3 | 26.1 | 26.8 | 27.3 | 26.7 | 27.4 | 27.2 | 27.9 | 28.4 |
| 8H | 4H | 25.3 | 26.2 | 25.8 | 26.6 | 27.1 | 26.4 | 27.3 | 26.9 | 27.7 | 28.2 |
| | 6H | 25.9 | 26.6 | 26.4 | 27.1 | 27.6 | 26.8 | 27.6 | 27.3 | 28.1 | 28.5 |
| | 8H | 26.2 | 26.8 | 26.7 | 27.3 | 27.8 | 27.0 | 27.7 | 27.5 | 28.2 | 28.6 |
| | 12H | 26.3 | 26.9 | 26.8 | 27.4 | 27.9 | 27.2 | 27.7 | 27.7 | 28.2 | 28.8 |
| 12H | 4H | 25.4 | 26.1 | 25.8 | 26.6 | 27.1 | 26.4 | 27.2 | 26.9 | 27.7 | 28.1 |
| | 6H | 26.0 | 26.7 | 26.5 | 27.1 | 27.7 | 26.9 | 27.6 | 27.4 | 28.0 | 28.6 |
| | 8H | 26.3 | 26.9 | 26.8 | 27.3 | 27.9 | 27.1 | 27.7 | 27.6 | 28.2 | 28.7 |

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 6907.833 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.)