



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W SH UV FR 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-002A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2W SH UV FR 850

[LUMINAIRE] Surface/pendant mounted, formed white enamel aluminum housing/reflectors,

[MORE] frosted plastic enclosures below LEDs

[LAMP] 448 white LEDs, four 20103 5000K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] Two ULT Everline D21CC80UNVPW-C LED drivers each programmed at

[MORE] 1460mA

[OTHER] 120.0Vac, 60.00Hz, 1.189A, 142.3W, 0.997PF, 5.9%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 | 22832 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 161 |
| Total Luminaire Watts | 142.25 |
| 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 |
| Luminous Length (0-180) | 2.00 ft |
| Luminous Width (90-270) | 1.25 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 30461 | 32565 | 33857 |
| 55 | 26529 | 31174 | 33466 |
| 65 | 21540 | 29563 | 33285 |
| 75 | 16131 | 28320 | 26495 |
| 85 | 9969 | 20552 | 20143 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL G2 2W SH UV FR 850.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2963.59 | N.A. | 13.00 |
| 0-30 | 6290.18 | N.A. | 27.50 |
| 0-40 | 10284.91 | N.A. | 45.00 |
| 0-60 | 18028.21 | N.A. | 79.00 |
| 0-80 | 22374.48 | N.A. | 98.00 |
| 0-90 | 22816.42 | N.A. | 99.90 |
| 10-90 | 22049.57 | N.A. | 96.60 |
| 20-40 | 7321.32 | N.A. | 32.10 |
| 20-50 | 11422.02 | N.A. | 50.00 |
| 40-70 | 10514.61 | N.A. | 46.10 |
| 60-80 | 4346.26 | N.A. | 19.00 |
| 70-80 | 1574.96 | N.A. | 6.90 |
| 80-90 | 441.94 | N.A. | 1.90 |
| 90-110 | 15.92 | N.A. | 0.10 |
| 90-120 | 15.92 | N.A. | 0.10 |
| 90-130 | 15.92 | N.A. | 0.10 |
| 90-150 | 15.92 | N.A. | 0.10 |
| 90-180 | 15.92 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 22832.34 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 766.85 |
| 10-20 | 2196.74 |
| 20-30 | 3326.59 |
| 30-40 | 3994.72 |
| 40-50 | 4100.7 |
| 50-60 | 3642.6 |
| 60-70 | 2771.3 |
| 70-80 | 1574.96 |
| 80-90 | 441.94 |
| 90-100 | 15.90 |
| 100-110 | 0.01 |
| 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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL G2 2W SH UV FR 850.IES

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 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 |
| 3 | 90 | 79 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL G2 2W SH UV FR 850.IES

UGR TABLE - CORRECTED

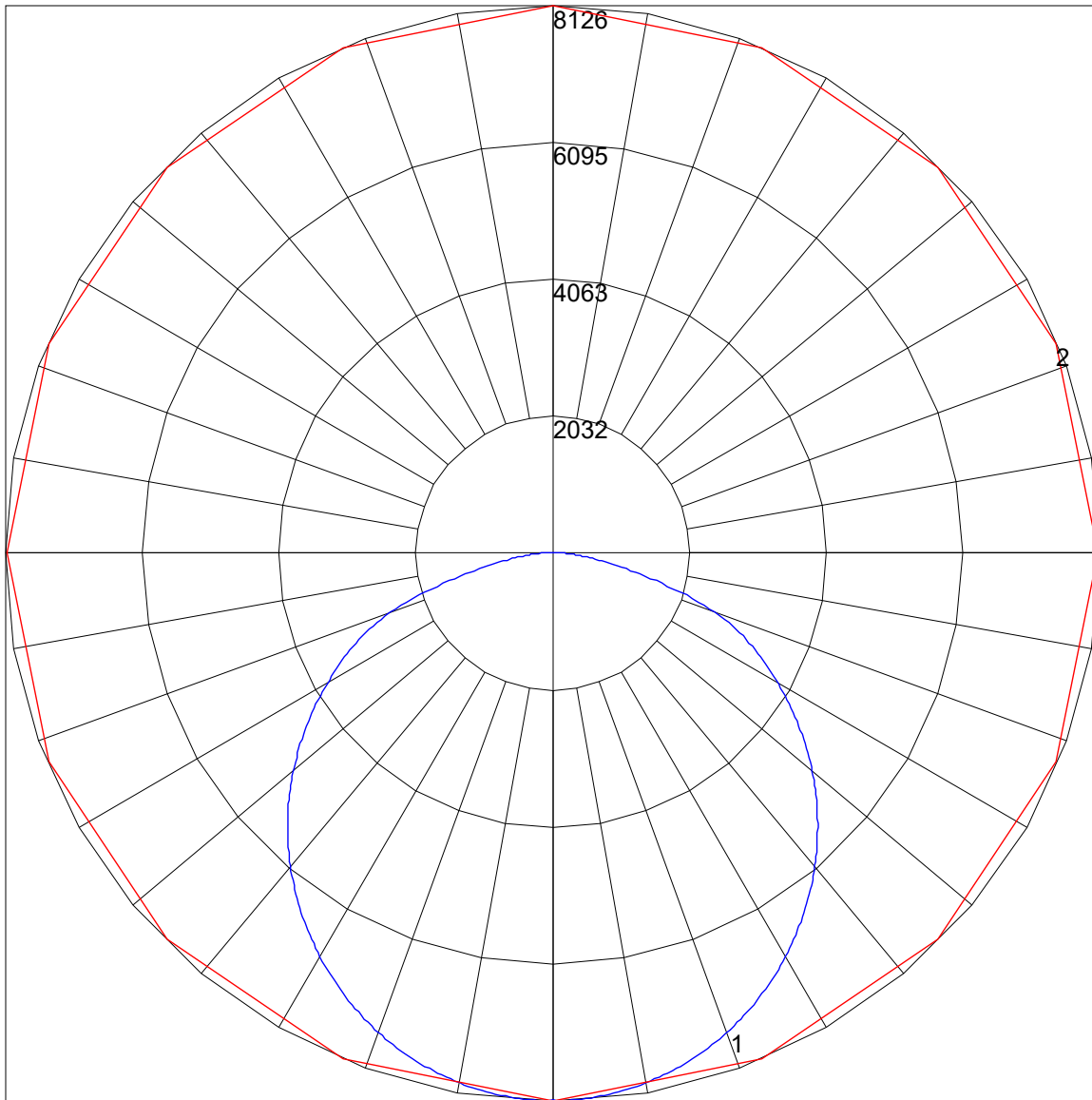
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 23.2 | 24.8 | 23.6 | 25.1 | 25.5 | 24.7 | 26.3 | 25.0 | 26.6 | 26.9 |
| | 3H | 24.6 | 26.1 | 25.0 | 26.4 | 26.8 | 26.7 | 28.2 | 27.1 | 28.5 | 28.9 |
| | 4H | 25.1 | 26.5 | 25.5 | 26.9 | 27.2 | 27.4 | 28.8 | 27.8 | 29.1 | 29.5 |
| | 6H | 25.5 | 26.8 | 25.9 | 27.1 | 27.5 | 27.8 | 29.1 | 28.2 | 29.4 | 29.8 |
| | 8H | 25.5 | 26.8 | 26.0 | 27.2 | 27.6 | 27.9 | 29.1 | 28.3 | 29.5 | 29.9 |
| | 12H | 25.6 | 26.8 | 26.0 | 27.2 | 27.6 | 27.9 | 29.1 | 28.4 | 29.5 | 29.9 |
| 4H | 2H | 24.1 | 25.5 | 24.5 | 25.8 | 26.2 | 25.2 | 26.6 | 25.6 | 27.0 | 27.3 |
| | 3H | 25.8 | 27.0 | 26.2 | 27.4 | 27.8 | 27.6 | 28.7 | 28.0 | 29.1 | 29.5 |
| | 4H | 26.4 | 27.5 | 26.8 | 27.9 | 28.3 | 28.3 | 29.4 | 28.8 | 29.8 | 30.2 |
| | 6H | 26.9 | 27.8 | 27.3 | 28.2 | 28.7 | 28.8 | 29.8 | 29.3 | 30.2 | 30.6 |
| | 8H | 27.0 | 27.9 | 27.5 | 28.3 | 28.8 | 29.0 | 29.8 | 29.4 | 30.3 | 30.7 |
| | 12H | 27.1 | 27.9 | 27.6 | 28.3 | 28.8 | 29.1 | 29.9 | 29.6 | 30.3 | 30.8 |
| 8H | 4H | 27.0 | 27.8 | 27.4 | 28.3 | 28.7 | 28.6 | 29.5 | 29.1 | 29.9 | 30.4 |
| | 6H | 27.6 | 28.3 | 28.1 | 28.8 | 29.3 | 29.2 | 29.9 | 29.7 | 30.4 | 30.9 |
| | 8H | 27.8 | 28.4 | 28.3 | 28.9 | 29.4 | 29.4 | 30.1 | 29.9 | 30.6 | 31.1 |
| | 12H | 27.9 | 28.5 | 28.4 | 29.0 | 29.6 | 29.6 | 30.2 | 30.1 | 30.7 | 31.2 |
| 12H | 4H | 27.0 | 27.8 | 27.5 | 28.3 | 28.7 | 28.6 | 29.4 | 29.1 | 29.9 | 30.3 |
| | 6H | 27.7 | 28.3 | 28.2 | 28.8 | 29.3 | 29.3 | 29.9 | 29.8 | 30.4 | 30.9 |
| | 8H | 28.0 | 28.5 | 28.5 | 29.0 | 29.6 | 29.5 | 30.1 | 30.0 | 30.6 | 31.1 |

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 8126.165 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.)