

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4 MD HE UV 835.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-011(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4 MD HE UV 835

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

[MORE] no enclosure.

[LAMP] 672 white LEDs, six 20103 3500K 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 | 19777 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 172 |
| Total Luminaire Watts | 114.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.40 |
| 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 | 21109 | 20665 | 20732 |
| 55 | 20579 | 20212 | 20524 |
| 65 | 19487 | 19412 | 20289 |
| 75 | 16338 | 11131 | 11742 |
| 85 | 7706 | 4099 | 5293 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2502.44 | N.A. | 12.70 |
| 0-30 | 5338.89 | N.A. | 27.00 |
| 0-40 | 8805.88 | N.A. | 44.50 |
| 0-60 | 15824.73 | N.A. | 80.00 |
| 0-80 | 19590.42 | N.A. | 99.10 |
| 0-90 | 19774.42 | N.A. | 100.00 |
| 10-90 | 19127.81 | N.A. | 96.70 |
| 20-40 | 6303.44 | N.A. | 31.90 |
| 20-50 | 9959.95 | N.A. | 50.40 |
| 40-70 | 9617.79 | N.A. | 48.60 |
| 60-80 | 3765.7 | N.A. | 19.00 |
| 70-80 | 1166.75 | N.A. | 5.90 |
| 80-90 | 183.99 | N.A. | 0.90 |
| 90-110 | 2.77 | N.A. | 0.00 |
| 90-120 | 2.77 | N.A. | 0.00 |
| 90-130 | 2.77 | N.A. | 0.00 |
| 90-150 | 2.77 | N.A. | 0.00 |
| 90-180 | 2.77 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 19777.19 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 646.60 |
| 10-20 | 1855.83 |
| 20-30 | 2836.45 |
| 30-40 | 3466.99 |
| 40-50 | 3656.5 |
| 50-60 | 3362.34 |
| 60-70 | 2598.94 |
| 70-80 | 1166.75 |
| 80-90 | 183.99 |
| 90-100 | 2.72 |
| 100-110 | 0.06 |
| 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 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 73 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 |
| 10 | 53 | 39 | 32 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

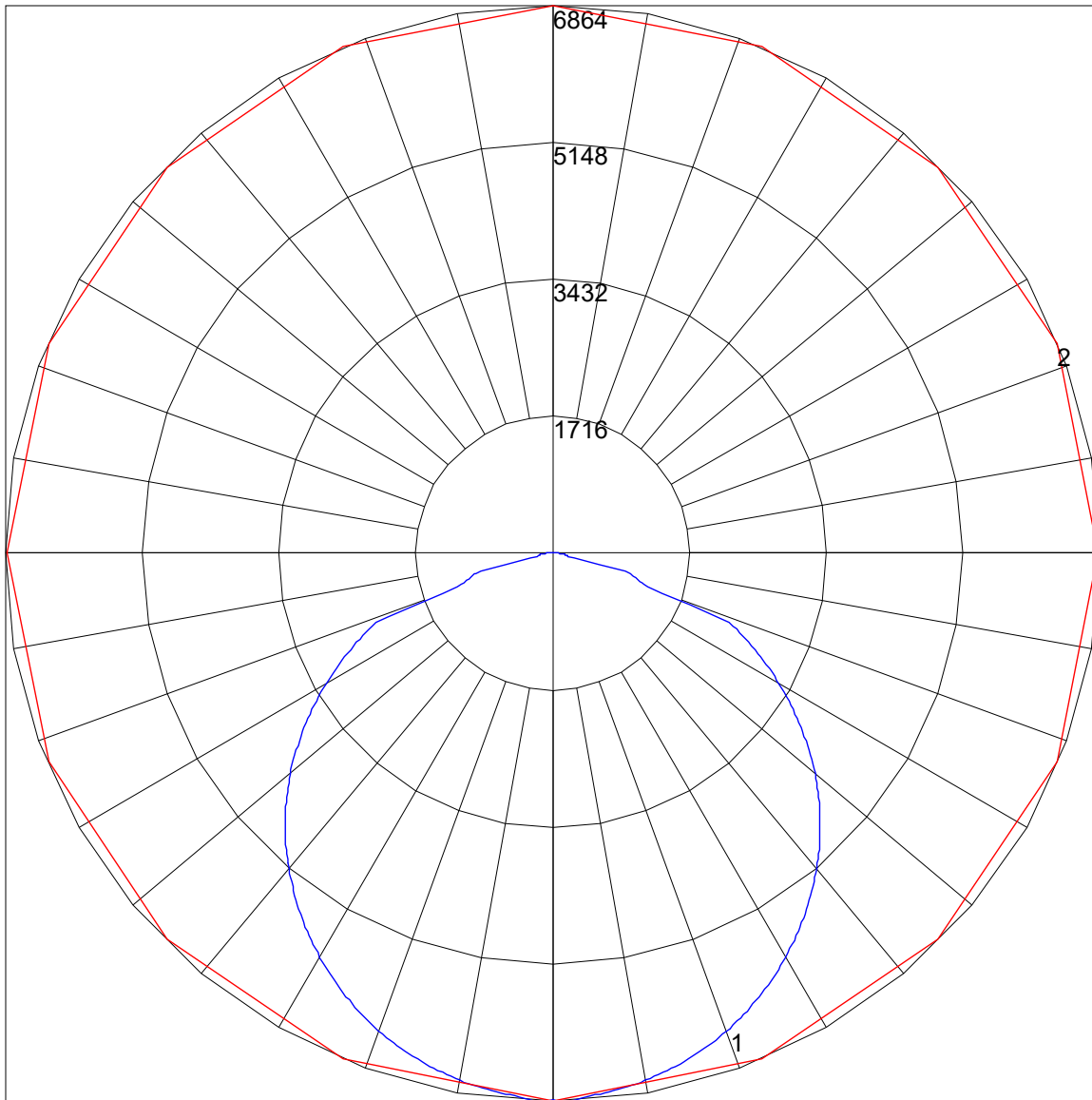
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 22.7 | 24.4 | 23.1 | 24.7 | 25.0 | 23.0 | 24.6 | 23.4 | 24.9 | 25.2 |
| | 3H | 24.6 | 26.1 | 25.0 | 26.4 | 26.8 | 24.5 | 26.0 | 24.9 | 26.3 | 26.7 |
| | 4H | 25.3 | 26.7 | 25.7 | 27.0 | 27.4 | 24.9 | 26.2 | 25.3 | 26.6 | 27.0 |
| | 6H | 25.7 | 27.0 | 26.1 | 27.4 | 27.8 | 24.8 | 26.1 | 25.2 | 26.5 | 26.9 |
| | 8H | 25.8 | 27.0 | 26.2 | 27.4 | 27.8 | 24.8 | 26.0 | 25.2 | 26.4 | 26.8 |
| | 12H | 25.9 | 27.0 | 26.3 | 27.4 | 27.8 | 24.8 | 26.0 | 25.2 | 26.4 | 26.8 |
| 4H | 2H | 23.4 | 24.8 | 23.8 | 25.2 | 25.6 | 23.6 | 25.0 | 24.0 | 25.4 | 25.7 |
| | 3H | 25.5 | 26.7 | 25.9 | 27.1 | 27.5 | 25.2 | 26.4 | 25.6 | 26.8 | 27.2 |
| | 4H | 26.3 | 27.4 | 26.7 | 27.8 | 28.2 | 25.7 | 26.8 | 26.1 | 27.2 | 27.6 |
| | 6H | 26.9 | 27.8 | 27.3 | 28.2 | 28.7 | 25.7 | 26.6 | 26.1 | 27.0 | 27.5 |
| | 8H | 27.0 | 27.8 | 27.4 | 28.3 | 28.7 | 25.7 | 26.5 | 26.1 | 27.0 | 27.4 |
| | 12H | 27.0 | 27.8 | 27.5 | 28.3 | 28.7 | 25.7 | 26.5 | 26.2 | 26.9 | 27.4 |
| 8H | 4H | 26.5 | 27.3 | 26.9 | 27.8 | 28.2 | 25.9 | 26.8 | 26.4 | 27.2 | 27.7 |
| | 6H | 27.1 | 27.8 | 27.6 | 28.3 | 28.8 | 25.9 | 26.6 | 26.4 | 27.1 | 27.6 |
| | 8H | 27.3 | 27.9 | 27.8 | 28.4 | 28.9 | 25.9 | 26.5 | 26.4 | 27.1 | 27.5 |
| | 12H | 27.4 | 27.9 | 27.9 | 28.4 | 29.0 | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 |
| 12H | 4H | 26.5 | 27.2 | 26.9 | 27.7 | 28.2 | 25.9 | 26.7 | 26.4 | 27.2 | 27.7 |
| | 6H | 27.1 | 27.7 | 27.6 | 28.2 | 28.7 | 25.9 | 26.6 | 26.5 | 27.0 | 27.6 |
| | 8H | 27.3 | 27.8 | 27.8 | 28.3 | 28.9 | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 |

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 6863.521 Located At Horizontal Angle = 67.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)