



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/24/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4W MD HE UV 850

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

[MORE] no enclosure.

[LAMP] 896 white LEDs, eight 20103 5000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] Two ULT Everline D28CC95UVPA12-F LED drivers each programmed to 2150mA

[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                | 36346           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 177             |
| Total Luminaire Watts           | 205.3           |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.30            |
| Spacing Criterion (90-270)      | 1.28            |
| Spacing Criterion (Diagonal)    | 1.42            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 3.79 ft         |
| Luminous Width (90-270)         | 1.25 ft         |
| Luminous Height                 | 0.00 ft         |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 27862            | 27587             | 27725             |
| 55                  | 27104            | 26974             | 27291             |
| 65                  | 25238            | 25550             | 26391             |
| 75                  | 21204            | 23439             | 18074             |
| 85                  | 10834            | 7254              | 7989              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 4536.35  | N.A.  | 12.50  |
| 0-30    | 9689.1   | N.A.  | 26.70  |
| 0-40    | 15992.81 | N.A.  | 44.00  |
| 0-60    | 28738.07 | N.A.  | 79.10  |
| 0-80    | 35910.68 | N.A.  | 98.80  |
| 0-90    | 36341.45 | N.A.  | 100.00 |
| 10-90   | 35171.47 | N.A.  | 96.80  |
| 20-40   | 11456.46 | N.A.  | 31.50  |
| 20-50   | 18102.74 | N.A.  | 49.80  |
| 40-70   | 17466.63 | N.A.  | 48.10  |
| 60-80   | 7172.61  | N.A.  | 19.70  |
| 70-80   | 2451.24  | N.A.  | 6.70   |
| 80-90   | 430.78   | N.A.  | 1.20   |
| 90-110  | 4.47     | N.A.  | 0.00   |
| 90-120  | 4.47     | N.A.  | 0.00   |
| 90-130  | 4.47     | N.A.  | 0.00   |
| 90-150  | 4.47     | N.A.  | 0.00   |
| 90-180  | 4.47     | N.A.  | 0.00   |
| 110-180 | 0.00     | N.A.  | 0.00   |
| 0-180   | 36345.92 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 1169.99 |
| 10-20   | 3366.36 |
| 20-30   | 5152.75 |
| 30-40   | 6303.71 |
| 40-50   | 6646.28 |
| 50-60   | 6098.98 |
| 60-70   | 4721.37 |
| 70-80   | 2451.24 |
| 80-90   | 430.78  |
| 90-100  | 4.45    |
| 100-110 | 0.02    |
| 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  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 74  | 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  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 50  |
| 5  | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 43  |
| 6  | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |
| 7  | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 33  |
| 8  | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9  | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |
| 10 | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24  |

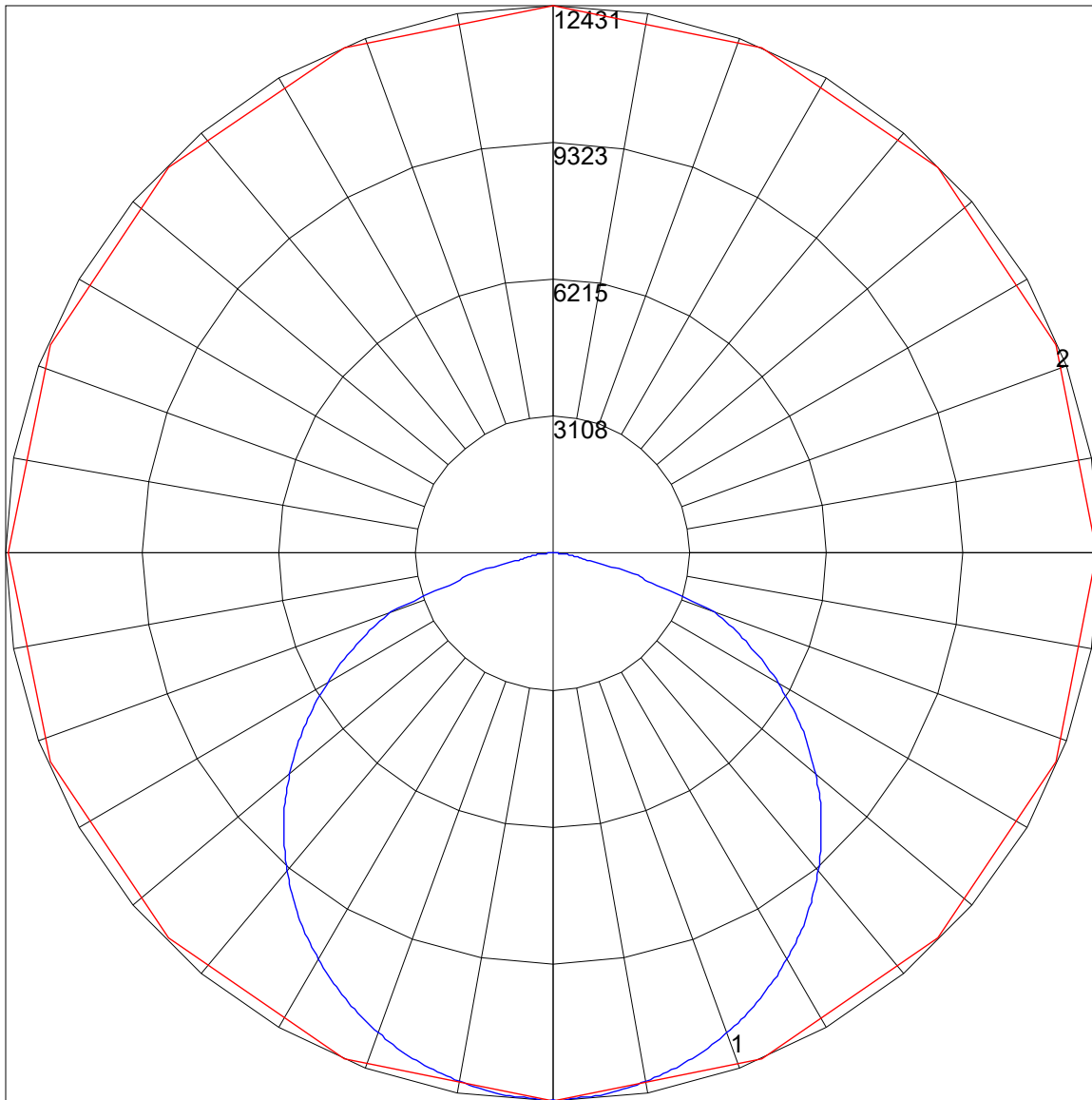
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 23.7                 | 25.3 | 24.0 | 25.6 | 25.9 | 23.9               | 25.5 | 24.2 | 25.8 | 26.1 |
|                | 3H   | 25.5                 | 27.0 | 25.9 | 27.3 | 27.7 | 25.8               | 27.3 | 26.2 | 27.7 | 28.0 |
|                | 4H   | 26.1                 | 27.5 | 26.5 | 27.9 | 28.2 | 26.2               | 27.6 | 26.6 | 28.0 | 28.4 |
|                | 6H   | 26.5                 | 27.8 | 26.9 | 28.2 | 28.6 | 26.3               | 27.7 | 26.8 | 28.0 | 28.4 |
|                | 8H   | 26.7                 | 27.9 | 27.1 | 28.3 | 28.7 | 26.4               | 27.6 | 26.8 | 28.0 | 28.4 |
|                | 12H  | 26.7                 | 27.9 | 27.1 | 28.3 | 28.7 | 26.4               | 27.6 | 26.8 | 27.9 | 28.4 |
| 4H             | 2H   | 24.3                 | 25.7 | 24.7 | 26.1 | 26.5 | 24.5               | 25.9 | 24.9 | 26.2 | 26.6 |
|                | 3H   | 26.4                 | 27.5 | 26.8 | 27.9 | 28.3 | 26.7               | 27.9 | 27.1 | 28.3 | 28.7 |
|                | 4H   | 27.1                 | 28.2 | 27.6 | 28.6 | 29.0 | 27.2               | 28.3 | 27.6 | 28.7 | 29.1 |
|                | 6H   | 27.7                 | 28.6 | 28.1 | 29.0 | 29.5 | 27.4               | 28.3 | 27.8 | 28.7 | 29.2 |
|                | 8H   | 27.8                 | 28.7 | 28.3 | 29.1 | 29.6 | 27.4               | 28.3 | 27.8 | 28.7 | 29.2 |
|                | 12H  | 27.9                 | 28.7 | 28.4 | 29.1 | 29.6 | 27.4               | 28.2 | 27.9 | 28.7 | 29.1 |
| 8H             | 4H   | 27.4                 | 28.3 | 27.9 | 28.7 | 29.2 | 27.5               | 28.3 | 27.9 | 28.8 | 29.2 |
|                | 6H   | 28.1                 | 28.8 | 28.5 | 29.3 | 29.7 | 27.7               | 28.4 | 28.2 | 28.9 | 29.4 |
|                | 8H   | 28.3                 | 28.9 | 28.8 | 29.4 | 29.9 | 27.7               | 28.4 | 28.2 | 28.9 | 29.4 |
|                | 12H  | 28.4                 | 28.9 | 28.9 | 29.4 | 30.0 | 27.8               | 28.3 | 28.3 | 28.8 | 29.4 |
| 12H            | 4H   | 27.4                 | 28.2 | 27.9 | 28.7 | 29.1 | 27.5               | 28.3 | 28.0 | 28.7 | 29.2 |
|                | 6H   | 28.1                 | 28.7 | 28.6 | 29.2 | 29.7 | 27.7               | 28.4 | 28.2 | 28.8 | 29.4 |
|                | 8H   | 28.3                 | 28.9 | 28.8 | 29.4 | 29.9 | 27.8               | 28.3 | 28.3 | 28.8 | 29.4 |

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 12430.638 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.)