



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 4N MD UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001839-001(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 8/26/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL A G2 4N MD UV 840

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

[MORE] formed specular aluminum reflector, no enclosure.

[LAMP] 224 white LEDs, two ULT Everline M12CC840D112N2U LED boards with 112

[MORE] LEDs each

[BALLAST] One ULT Everline D15CC55UNVPW-C LED driver labeled as 1210mA

[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                | 10179               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 170                 |
| Total Luminaire Watts           | 59.9                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.28                |
| Spacing Criterion (90-270)      | 1.04                |
| Spacing Criterion (Diagonal)    | 1.20                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 3.83 ft             |
| Luminous Width (90-270)         | 0.34 ft             |
| Luminous Height                 | 0.24 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 41325            | 18691             | 1157              |
| 55                  | 38848            | 1410              | 66                |
| 65                  | 34319            | 261               | 3560              |
| 75                  | 25897            | 2581              | 4343              |
| 85                  | 9520             | 743               | 30                |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PBL A G2 4N MD UV 840.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1989.03  | N.A.  | 19.50  |
| 0-30    | 4151.36  | N.A.  | 40.80  |
| 0-40    | 6442.8   | N.A.  | 63.30  |
| 0-60    | 9075.31  | N.A.  | 89.20  |
| 0-80    | 10047.56 | N.A.  | 98.70  |
| 0-90    | 10148.92 | N.A.  | 99.70  |
| 10-90   | 9646.25  | N.A.  | 94.80  |
| 20-40   | 4453.77  | N.A.  | 43.80  |
| 20-50   | 6122.7   | N.A.  | 60.20  |
| 40-70   | 3197.23  | N.A.  | 31.40  |
| 60-80   | 972.25   | N.A.  | 9.60   |
| 70-80   | 407.53   | N.A.  | 4.00   |
| 80-90   | 101.35   | N.A.  | 1.00   |
| 90-110  | 3.54     | N.A.  | 0.00   |
| 90-120  | 6.66     | N.A.  | 0.10   |
| 90-130  | 11.00    | N.A.  | 0.10   |
| 90-150  | 21.20    | N.A.  | 0.20   |
| 90-180  | 29.74    | N.A.  | 0.30   |
| 110-180 | 26.20    | N.A.  | 0.30   |
| 0-180   | 10178.66 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 502.66  |
| 10-20   | 1486.36 |
| 20-30   | 2162.33 |
| 30-40   | 2291.44 |
| 40-50   | 1668.92 |
| 50-60   | 963.59  |
| 60-70   | 564.72  |
| 70-80   | 407.53  |
| 80-90   | 101.35  |
| 90-100  | 1.85    |
| 100-110 | 1.69    |
| 110-120 | 3.12    |
| 120-130 | 4.34    |
| 130-140 | 5.06    |
| 140-150 | 5.14    |
| 150-160 | 4.59    |
| 160-170 | 2.93    |
| 170-180 | 1.02    |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PBL A G2 4N MD UV 840.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  | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  | 96  | 94  | 92  | 93  | 91  | 90  | 88  |
| 2  | 102 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |
| 3  | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 69  | 67  |
| 4  | 88  | 78  | 70  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 62  | 60  |
| 5  | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |
| 6  | 77  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |
| 7  | 72  | 60  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 43  |
| 8  | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |
| 9  | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |
| 10 | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  |

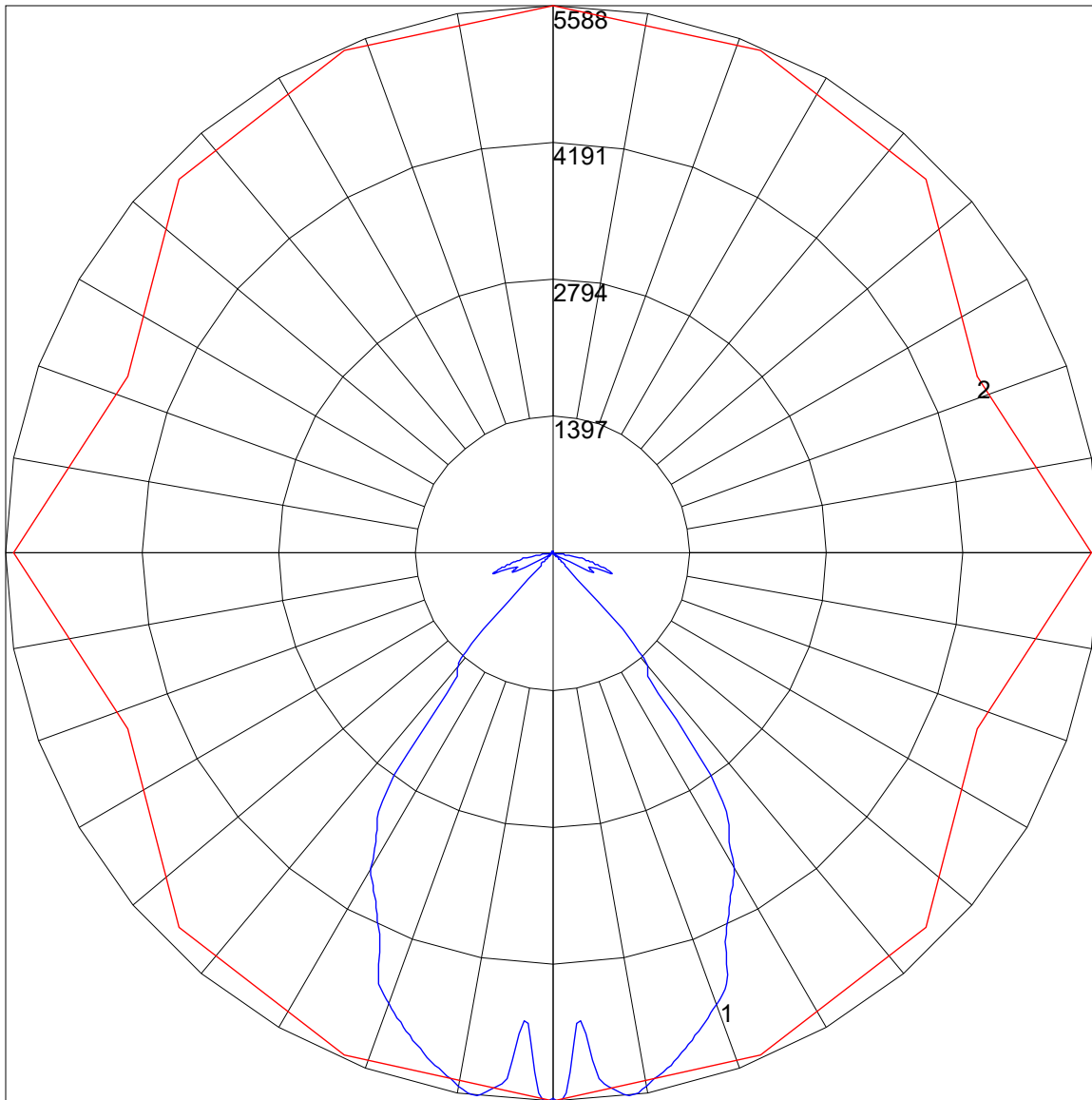
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PBL A G2 4N MD UV 840.IES**

**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 | 23.1                 | 24.5 | 23.5 | 24.8 | 25.1 | 8.1                | 8.1  | 8.1  | 8.1  | 8.1  |
|                | 3H   | 23.7                 | 25.0 | 24.1 | 25.3 | 25.7 | 14.1               | 15.4 | 14.5 | 15.7 | 16.1 |
|                | 4H   | 24.0                 | 25.2 | 24.5 | 25.6 | 26.0 | 18.0               | 19.1 | 18.4 | 19.5 | 19.9 |
|                | 6H   | 24.2                 | 25.3 | 24.7 | 25.7 | 26.1 | 19.5               | 20.5 | 19.9 | 20.9 | 21.3 |
|                | 8H   | 24.3                 | 25.3 | 24.7 | 25.7 | 26.1 | 19.6               | 20.6 | 20.0 | 21.0 | 21.4 |
|                | 12H  | 24.3                 | 25.2 | 24.7 | 25.6 | 26.1 | 19.5               | 20.5 | 20.0 | 20.9 | 21.4 |
| 4H             | 2H   | 22.9                 | 24.0 | 23.3 | 24.4 | 24.8 | 8.1                | 8.1  | 8.1  | 8.1  | 8.1  |
|                | 3H   | 23.5                 | 24.5 | 24.0 | 24.9 | 25.3 | 14.8               | 15.8 | 15.2 | 16.2 | 16.6 |
|                | 4H   | 23.8                 | 24.7 | 24.3 | 25.1 | 25.6 | 18.8               | 19.7 | 19.3 | 20.1 | 20.6 |
|                | 6H   | 24.1                 | 24.8 | 24.5 | 25.3 | 25.8 | 20.4               | 21.1 | 20.9 | 21.6 | 22.1 |
|                | 8H   | 24.1                 | 24.8 | 24.6 | 25.3 | 25.8 | 20.5               | 21.2 | 21.0 | 21.7 | 22.2 |
|                | 12H  | 24.1                 | 24.8 | 24.7 | 25.3 | 25.8 | 20.5               | 21.1 | 21.0 | 21.6 | 22.1 |
| 8H             | 4H   | 23.8                 | 24.5 | 24.3 | 24.9 | 25.4 | 19.1               | 19.7 | 19.5 | 20.2 | 20.7 |
|                | 6H   | 24.0                 | 24.6 | 24.5 | 25.1 | 25.6 | 20.7               | 21.3 | 21.2 | 21.8 | 22.3 |
|                | 8H   | 24.1                 | 24.6 | 24.6 | 25.1 | 25.6 | 20.9               | 21.4 | 21.4 | 21.9 | 22.4 |
|                | 12H  | 24.2                 | 24.6 | 24.7 | 25.1 | 25.7 | 20.9               | 21.3 | 21.4 | 21.8 | 22.4 |
| 12H            | 4H   | 23.7                 | 24.4 | 24.3 | 24.9 | 25.4 | 19.0               | 19.6 | 19.5 | 20.1 | 20.6 |
|                | 6H   | 24.0                 | 24.5 | 24.6 | 25.0 | 25.6 | 20.7               | 21.2 | 21.3 | 21.7 | 22.3 |
|                | 8H   | 24.1                 | 24.6 | 24.6 | 25.1 | 25.7 | 20.9               | 21.3 | 21.4 | 21.9 | 22.4 |

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 5588.029 Located At Horizontal Angle = 90, Vertical Angle = 8.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (8.5) (Through Max. Cd.)