



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2 MH UV FR 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2 MH UV FR 840

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 224 white LEDs, two 20103 4000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] One ULT Everline D21CC80UNVPW-C programmed at 1730mA

[OTHER] 120.0Vac, 60.00Hz, 0.7093A, 84.97W, 0.998PF, 4.9%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                | 13247           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 156             |
| Total Luminaire Watts           | 84.97           |
| 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)         | 0.92 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                  | 24223            | 25769             | 26851             |
| 55                  | 21136            | 24832             | 26727             |
| 65                  | 17246            | 23814             | 26961             |
| 75                  | 13001            | 22176             | 19431             |
| 85                  | 7805             | 16795             | 14565             |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1721.02  | N.A.  | 13.00  |
| 0-30    | 3649.98  | N.A.  | 27.60  |
| 0-40    | 5966.32  | N.A.  | 45.00  |
| 0-60    | 10474.88 | N.A.  | 79.10  |
| 0-80    | 12998.97 | N.A.  | 98.10  |
| 0-90    | 13243.37 | N.A.  | 100.00 |
| 10-90   | 12797.22 | N.A.  | 96.60  |
| 20-40   | 4245.3   | N.A.  | 32.00  |
| 20-50   | 6627.44  | N.A.  | 50.00  |
| 40-70   | 6138.44  | N.A.  | 46.30  |
| 60-80   | 2524.08  | N.A.  | 19.10  |
| 70-80   | 894.20   | N.A.  | 6.80   |
| 80-90   | 244.41   | N.A.  | 1.80   |
| 90-110  | 4.01     | N.A.  | 0.00   |
| 90-120  | 4.01     | N.A.  | 0.00   |
| 90-130  | 4.01     | N.A.  | 0.00   |
| 90-150  | 4.01     | N.A.  | 0.00   |
| 90-180  | 4.01     | N.A.  | 0.00   |
| 110-180 | 0.00     | N.A.  | 0.00   |
| 0-180   | 13247.39 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 446.16  |
| 10-20   | 1274.87 |
| 20-30   | 1928.96 |
| 30-40   | 2316.34 |
| 40-50   | 2382.14 |
| 50-60   | 2126.42 |
| 60-70   | 1629.88 |
| 70-80   | 894.20  |
| 80-90   | 244.41  |
| 90-100  | 3.65    |
| 100-110 | 0.36    |
| 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  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 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  | 80  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 59  |
| 4  | 83  | 70  | 62  | 55  | 80  | 69  | 61  | 55  | 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  |

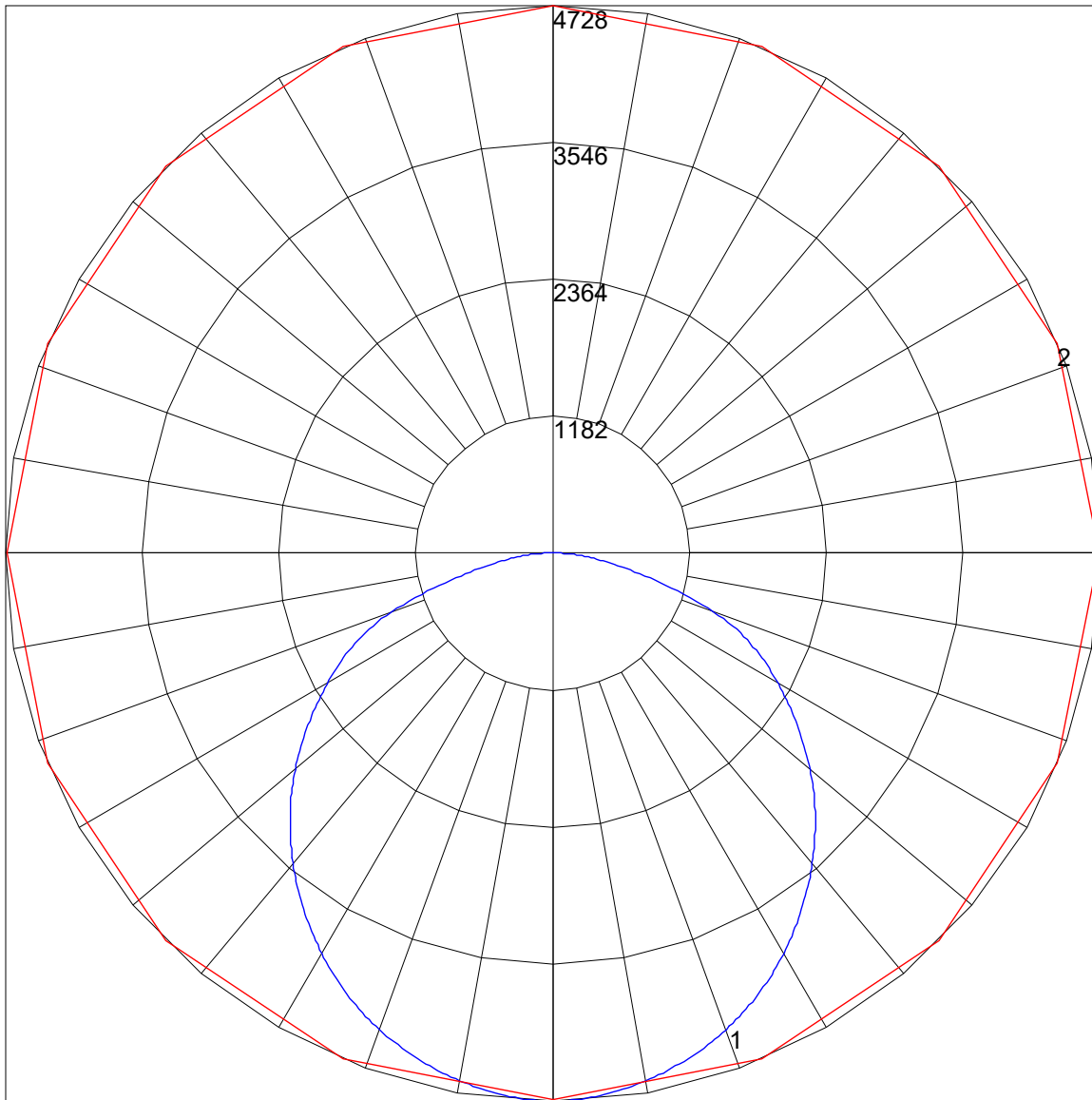
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**UGR TABLE - CORRECTED**

| 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 | 22.4                 | 24.0 | 22.7 | 24.3 | 24.6 | 23.9               | 25.6 | 24.3 | 25.9 | 26.2 |
|                | 3H   | 23.8                 | 25.3 | 24.2 | 25.6 | 26.0 | 26.0               | 27.5 | 26.3 | 27.8 | 28.1 |
|                | 4H   | 24.3                 | 25.7 | 24.7 | 26.1 | 26.5 | 26.5               | 27.9 | 26.9 | 28.3 | 28.6 |
|                | 6H   | 24.7                 | 26.0 | 25.1 | 26.3 | 26.7 | 26.9               | 28.1 | 27.3 | 28.5 | 28.9 |
|                | 8H   | 24.8                 | 26.0 | 25.2 | 26.4 | 26.8 | 26.9               | 28.2 | 27.4 | 28.6 | 29.0 |
|                | 12H  | 24.8                 | 26.0 | 25.2 | 26.4 | 26.8 | 27.0               | 28.2 | 27.4 | 28.6 | 29.0 |
| 4H             | 2H   | 23.3                 | 24.7 | 23.7 | 25.0 | 25.4 | 24.5               | 25.9 | 24.9 | 26.2 | 26.6 |
|                | 3H   | 25.0                 | 26.2 | 25.4 | 26.6 | 27.0 | 26.8               | 27.9 | 27.2 | 28.3 | 28.7 |
|                | 4H   | 25.6                 | 26.7 | 26.1 | 27.1 | 27.6 | 27.4               | 28.5 | 27.9 | 28.9 | 29.3 |
|                | 6H   | 26.1                 | 27.0 | 26.6 | 27.5 | 27.9 | 27.9               | 28.8 | 28.3 | 29.3 | 29.7 |
|                | 8H   | 26.2                 | 27.1 | 26.7 | 27.5 | 28.0 | 28.0               | 28.9 | 28.5 | 29.3 | 29.8 |
|                | 12H  | 26.3                 | 27.1 | 26.8 | 27.6 | 28.0 | 28.1               | 28.9 | 28.6 | 29.4 | 29.9 |
| 8H             | 4H   | 26.2                 | 27.0 | 26.6 | 27.5 | 27.9 | 27.7               | 28.6 | 28.2 | 29.0 | 29.5 |
|                | 6H   | 26.8                 | 27.5 | 27.3 | 28.0 | 28.5 | 28.3               | 29.0 | 28.8 | 29.5 | 30.0 |
|                | 8H   | 27.0                 | 27.6 | 27.5 | 28.2 | 28.6 | 28.5               | 29.1 | 29.0 | 29.6 | 30.1 |
|                | 12H  | 27.1                 | 27.7 | 27.6 | 28.2 | 28.8 | 28.6               | 29.2 | 29.2 | 29.7 | 30.3 |
| 12H            | 4H   | 26.2                 | 27.0 | 26.7 | 27.5 | 27.9 | 27.7               | 28.5 | 28.2 | 29.0 | 29.4 |
|                | 6H   | 26.9                 | 27.5 | 27.4 | 28.0 | 28.5 | 28.3               | 29.0 | 28.9 | 29.4 | 30.0 |
|                | 8H   | 27.2                 | 27.7 | 27.7 | 28.2 | 28.8 | 28.6               | 29.1 | 29.1 | 29.6 | 30.2 |

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 4727.574 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.)