



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 8 VH UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001853-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 9/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL A G2 8 VH UV 840

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

[MORE] formed and fabricated specular aluminum reflector, no enclosure.

[LAMP] 896 white LEDs, eight M12CC840D112N2U LED boards with 112 LEDs each

[BALLAST] Four ULT D21CC80UNVPW-C LED drivers set at 1740mA

[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                | 56541               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 164                 |
| Total Luminaire Watts           | 344.5               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.30                |
| Spacing Criterion (90-270)      | 1.04                |
| Spacing Criterion (Diagonal)    | 1.22                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 7.83 ft             |
| Luminous Width (90-270)         | 0.52 ft             |
| Luminous Height                 | 0.03 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 86848            | 44195             | 12711             |
| 55                  | 84155            | 11596             | 110               |
| 65                  | 78011            | 319               | 44                |
| 75                  | 64831            | 209               | 17                |
| 85                  | 33842            | 40                | 0                 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 11258.67 | N.A.  | 19.90  |
| 0-30    | 23631.59 | N.A.  | 41.80  |
| 0-40    | 36894.3  | N.A.  | 65.30  |
| 0-60    | 52603.42 | N.A.  | 93.00  |
| 0-80    | 56341.21 | N.A.  | 99.60  |
| 0-90    | 56540.75 | N.A.  | 100.00 |
| 10-90   | 53641.41 | N.A.  | 94.90  |
| 20-40   | 25635.63 | N.A.  | 45.30  |
| 20-50   | 35521.06 | N.A.  | 62.80  |
| 40-70   | 18513.19 | N.A.  | 32.70  |
| 60-80   | 3737.79  | N.A.  | 6.60   |
| 70-80   | 933.72   | N.A.  | 1.70   |
| 80-90   | 199.54   | N.A.  | 0.40   |
| 90-110  | 0.38     | N.A.  | 0.00   |
| 90-120  | 0.38     | N.A.  | 0.00   |
| 90-130  | 0.38     | N.A.  | 0.00   |
| 90-150  | 0.38     | N.A.  | 0.00   |
| 90-180  | 0.38     | N.A.  | 0.00   |
| 110-180 | 0.00     | N.A.  | 0.00   |
| 0-180   | 56541.12 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   |
|---------|----------|
| 0-10    | 2899.34  |
| 10-20   | 8359.33  |
| 20-30   | 12372.91 |
| 30-40   | 13262.71 |
| 40-50   | 9885.43  |
| 50-60   | 5823.68  |
| 60-70   | 2804.07  |
| 70-80   | 933.72   |
| 80-90   | 199.54   |
| 90-100  | 0.38     |
| 100-110 | 0.00     |
| 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  | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |
| 2  | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |
| 3  | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 73  | 78  | 75  | 71  | 70  |
| 4  | 89  | 79  | 72  | 67  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |
| 5  | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 55  |
| 6  | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 51  | 50  |
| 7  | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |
| 8  | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |
| 9  | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |
| 10 | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |

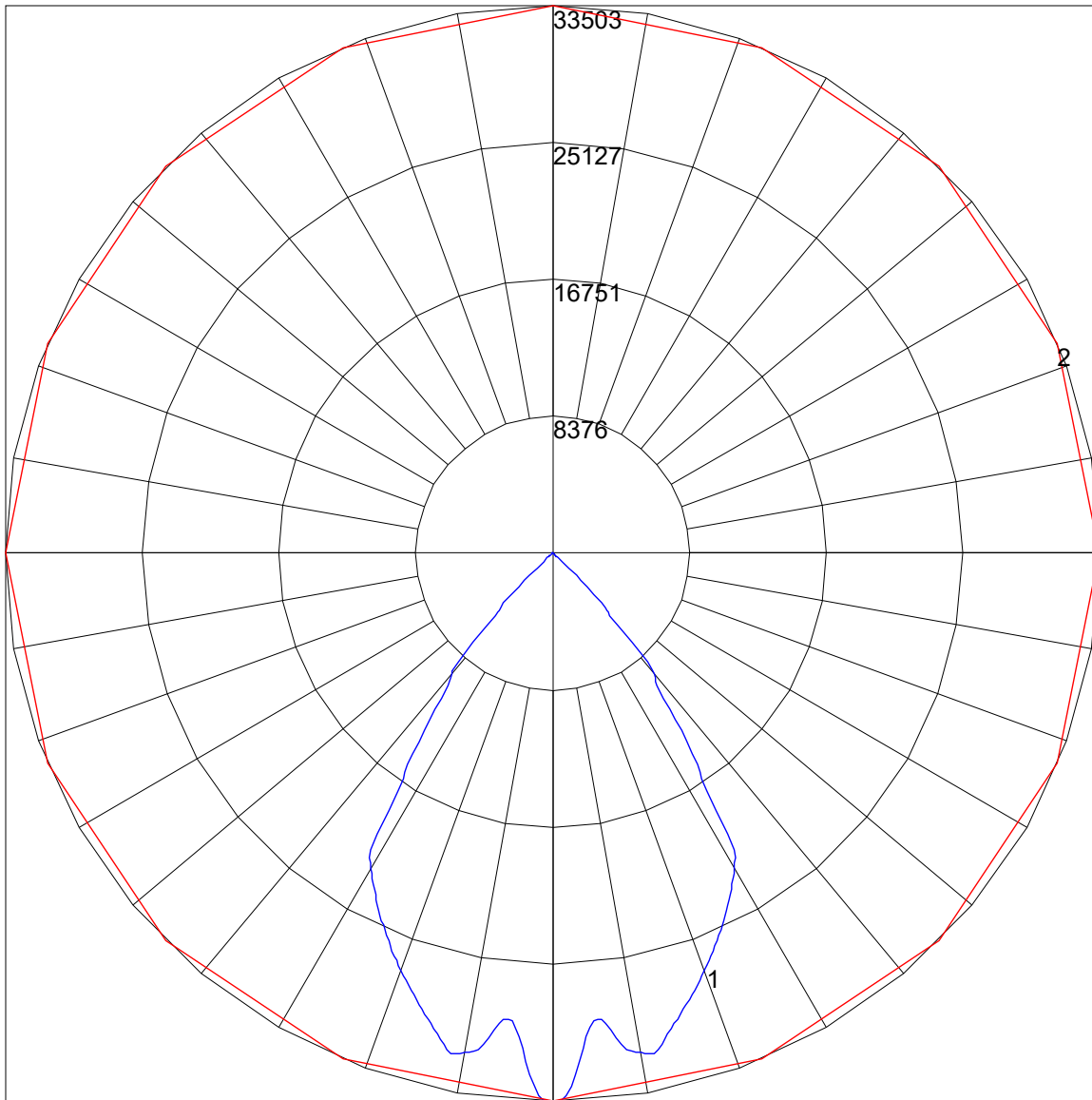
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 28.0                 | 29.4 | 28.4 | 29.7 | 30.0 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 3H   | 29.1                 | 30.3 | 29.5 | 30.6 | 31.0 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 4H   | 29.5                 | 30.7 | 30.0 | 31.0 | 31.4 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 6H   | 29.9                 | 30.9 | 30.3 | 31.3 | 31.7 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 8H   | 30.0                 | 31.0 | 30.4 | 31.4 | 31.8 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 12H  | 30.1                 | 31.0 | 30.5 | 31.4 | 31.8 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
| 4H             | 2H   | 27.8                 | 28.9 | 28.2 | 29.3 | 29.7 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 3H   | 28.9                 | 29.8 | 29.3 | 30.2 | 30.6 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 4H   | 29.3                 | 30.1 | 29.7 | 30.5 | 31.0 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 6H   | 29.7                 | 30.4 | 30.2 | 30.9 | 31.3 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 8H   | 29.9                 | 30.5 | 30.3 | 31.0 | 31.4 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 12H  | 29.9                 | 30.5 | 30.4 | 31.0 | 31.5 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
| 8H             | 4H   | 29.2                 | 29.8 | 29.7 | 30.3 | 30.7 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 6H   | 29.6                 | 30.1 | 30.1 | 30.6 | 31.1 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 8H   | 29.7                 | 30.2 | 30.2 | 30.7 | 31.2 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 12H  | 29.8                 | 30.2 | 30.3 | 30.7 | 31.3 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
| 12H            | 4H   | 29.1                 | 29.7 | 29.6 | 30.2 | 30.7 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 6H   | 29.5                 | 30.0 | 30.1 | 30.5 | 31.0 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |
|                | 8H   | 29.6                 | 30.1 | 30.2 | 30.6 | 31.1 | 14.0               | 14.0 | 14.0 | 14.0 | 14.0 |

Maximum UGR = 31.8

POLAR GRAPH



Maximum Candela = 33502.81 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.)