



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4W HI UV FR 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-022

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 4W HI UV FR 840

[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,

[MORE] three curved translucent plastic enclosures.

[LAMP] 504 white LEDs, six ULT M900C84084N2Q LED boards

[BALLAST] Three ULT D21CC80UNVPW-C LED drivers labeled at 1900mA

[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                | 37866               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 149                 |
| Total Luminaire Watts           | 254.1               |
| 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 w/Sides |
| Luminous Length (0-180)         | 3.80 ft             |
| Luminous Width (90-270)         | 1.26 ft             |
| Luminous Height                 | 0.04 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 25880            | 27251             | 28416             |
| 55                  | 22613            | 25841             | 27721             |
| 65                  | 18453            | 24247             | 26915             |
| 75                  | 13827            | 22474             | 19301             |
| 85                  | 8643             | 13139             | 12509             |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 4883.39  | N.A.  | 12.90  |
| 0-30    | 10371.21 | N.A.  | 27.40  |
| 0-40    | 16969.68 | N.A.  | 44.80  |
| 0-60    | 29808.6  | N.A.  | 78.70  |
| 0-80    | 37064.5  | N.A.  | 97.90  |
| 0-90    | 37830.35 | N.A.  | 99.90  |
| 10-90   | 36566.81 | N.A.  | 96.60  |
| 20-40   | 12086.29 | N.A.  | 31.90  |
| 20-50   | 18871.99 | N.A.  | 49.80  |
| 40-70   | 17470.26 | N.A.  | 46.10  |
| 60-80   | 7255.91  | N.A.  | 19.20  |
| 70-80   | 2624.57  | N.A.  | 6.90   |
| 80-90   | 765.84   | N.A.  | 2.00   |
| 90-110  | 35.95    | N.A.  | 0.10   |
| 90-120  | 35.95    | N.A.  | 0.10   |
| 90-130  | 35.95    | N.A.  | 0.10   |
| 90-150  | 35.95    | N.A.  | 0.10   |
| 90-180  | 35.95    | N.A.  | 0.10   |
| 110-180 | 0.00     | N.A.  | 0.00   |
| 0-180   | 37866.3  | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 1263.54 |
| 10-20   | 3619.85 |
| 20-30   | 5487.82 |
| 30-40   | 6598.47 |
| 40-50   | 6785.7  |
| 50-60   | 6053.22 |
| 60-70   | 4631.34 |
| 70-80   | 2624.57 |
| 80-90   | 765.84  |
| 90-100  | 35.85   |
| 100-110 | 0.11    |
| 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  | 93  | 91  | 88  | 90  | 88  | 86  | 83  |
| 2  | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 69  |
| 3  | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 58  |
| 4  | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 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  | 50  | 44  | 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  | 29  | 27  |
| 10 | 53  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 31  | 26  | 36  | 30  | 26  | 24  |

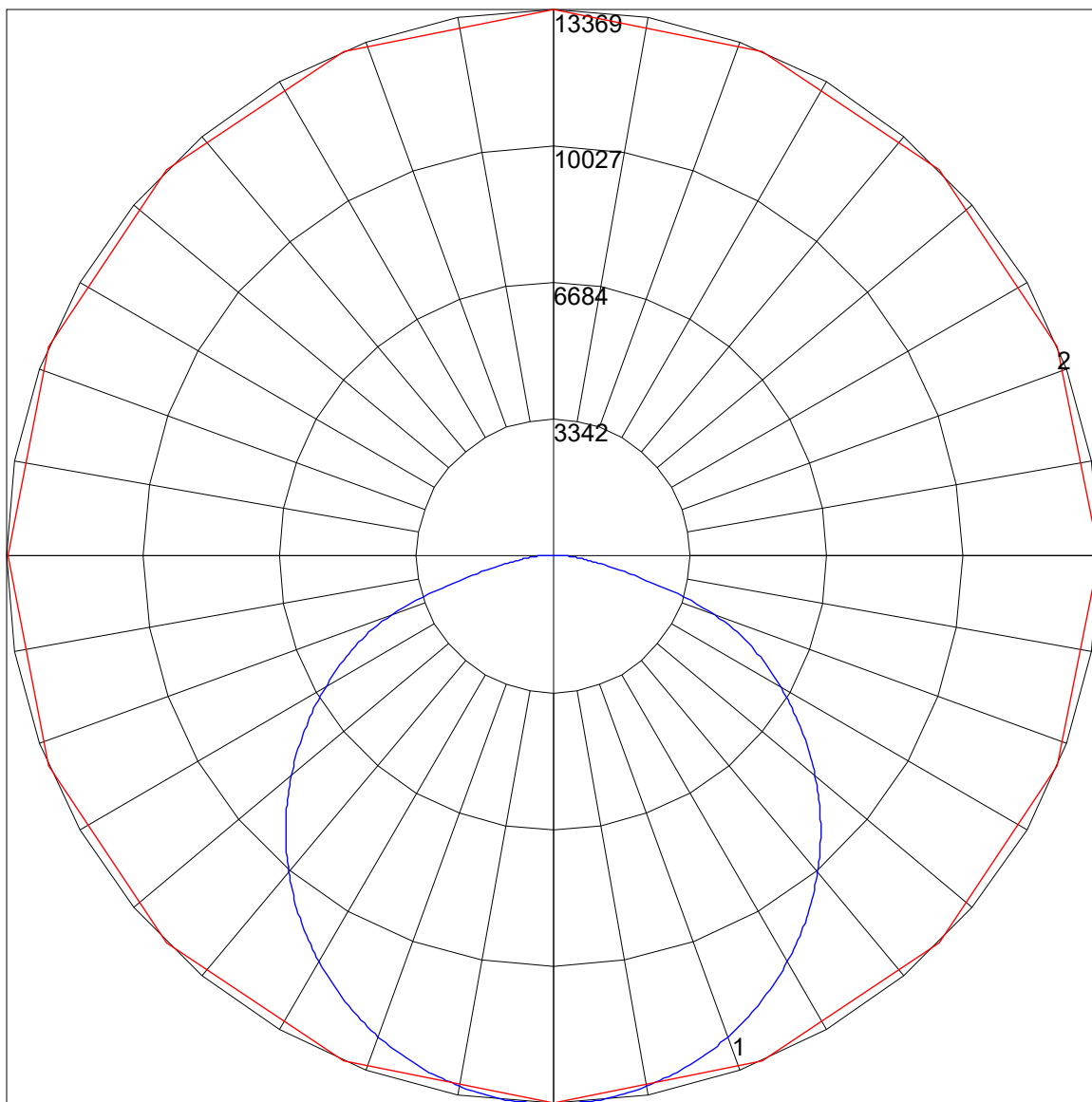
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**UGR TABLE - CORRECTED**

| 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 | 22.4                 | 24.1 | 22.8 | 24.4 | 24.7 | 24.0               | 25.6 | 24.4 | 26.0 | 26.3 |
|                | 3H   | 23.9                 | 25.4 | 24.3 | 25.7 | 26.1 | 26.0               | 27.5 | 26.4 | 27.9 | 28.2 |
|                | 4H   | 24.4                 | 25.8 | 24.8 | 26.1 | 26.5 | 26.6               | 28.0 | 27.0 | 28.4 | 28.8 |
|                | 6H   | 24.7                 | 26.0 | 25.1 | 26.4 | 26.8 | 26.9               | 28.2 | 27.4 | 28.6 | 29.0 |
|                | 8H   | 24.8                 | 26.0 | 25.2 | 26.4 | 26.8 | 27.0               | 28.3 | 27.4 | 28.6 | 29.0 |
|                | 12H  | 24.9                 | 26.0 | 25.3 | 26.4 | 26.9 | 27.1               | 28.3 | 27.5 | 28.7 | 29.1 |
| 4H             | 2H   | 23.4                 | 24.8 | 23.8 | 25.1 | 25.5 | 24.5               | 25.9 | 24.9 | 26.3 | 26.7 |
|                | 3H   | 25.1                 | 26.3 | 25.5 | 26.7 | 27.0 | 26.8               | 28.0 | 27.3 | 28.4 | 28.8 |
|                | 4H   | 25.7                 | 26.8 | 26.1 | 27.2 | 27.6 | 27.6               | 28.6 | 28.0 | 29.0 | 29.5 |
|                | 6H   | 26.1                 | 27.1 | 26.6 | 27.5 | 28.0 | 28.0               | 28.9 | 28.4 | 29.3 | 29.8 |
|                | 8H   | 26.3                 | 27.1 | 26.7 | 27.6 | 28.1 | 28.1               | 28.9 | 28.5 | 29.4 | 29.8 |
|                | 12H  | 26.4                 | 27.1 | 26.8 | 27.6 | 28.1 | 28.2               | 29.0 | 28.7 | 29.4 | 29.9 |
| 8H             | 4H   | 26.2                 | 27.1 | 26.7 | 27.5 | 28.0 | 27.8               | 28.7 | 28.3 | 29.1 | 29.6 |
|                | 6H   | 26.8                 | 27.6 | 27.3 | 28.1 | 28.5 | 28.3               | 29.1 | 28.8 | 29.5 | 30.0 |
|                | 8H   | 27.0                 | 27.7 | 27.5 | 28.2 | 28.7 | 28.5               | 29.1 | 29.0 | 29.7 | 30.1 |
|                | 12H  | 27.2                 | 27.8 | 27.7 | 28.3 | 28.8 | 28.7               | 29.2 | 29.2 | 29.7 | 30.3 |
| 12H            | 4H   | 26.3                 | 27.1 | 26.8 | 27.5 | 28.0 | 27.8               | 28.6 | 28.3 | 29.1 | 29.6 |
|                | 6H   | 26.9                 | 27.6 | 27.4 | 28.0 | 28.6 | 28.4               | 29.0 | 28.9 | 29.5 | 30.0 |
|                | 8H   | 27.2                 | 27.8 | 27.7 | 28.3 | 28.8 | 28.6               | 29.2 | 29.1 | 29.7 | 30.2 |

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 13368.769 Located At Horizontal Angle = 90, Vertical Angle = 1.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)