



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 2W VH UV 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-011

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 2W VH UV 840

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

[MORE] no enclosure.

[LAMP] 336 white LEDs, four ULT M900C840D84N2Q LED boards

[BALLAST] Two ULT D15CC55UNVPW-C LED drivers labeled at 1380mA

[OTHER] 120.0Vac, 60.00Hz, 1.018A, 121.3W, 0.993PF, 6.9%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 | 19703 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 162 |
| Total Luminaire Watts | 121.33 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 2.00 ft |
| Luminous Width (90-270) | 1.26 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 28781 | 28449 | 28443 |
| 55 | 27982 | 27803 | 27848 |
| 65 | 25900 | 25920 | 26496 |
| 75 | 20874 | 22819 | 12580 |
| 85 | 8422 | 7883 | 9009 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 2464.02 | N.A. | 12.50 |
| 0-30 | 5266.38 | N.A. | 26.70 |
| 0-40 | 8704.25 | N.A. | 44.20 |
| 0-60 | 15670.74 | N.A. | 79.50 |
| 0-80 | 19474.15 | N.A. | 98.80 |
| 0-90 | 19700.6 | N.A. | 100.00 |
| 10-90 | 19065.15 | N.A. | 96.80 |
| 20-40 | 6240.23 | N.A. | 31.70 |
| 20-50 | 9875.27 | N.A. | 50.10 |
| 40-70 | 9513.86 | N.A. | 48.30 |
| 60-80 | 3803.42 | N.A. | 19.30 |
| 70-80 | 1256.05 | N.A. | 6.40 |
| 80-90 | 226.45 | N.A. | 1.10 |
| 90-110 | 1.96 | N.A. | 0.00 |
| 90-120 | 1.96 | N.A. | 0.00 |
| 90-130 | 1.96 | N.A. | 0.00 |
| 90-150 | 1.96 | N.A. | 0.00 |
| 90-180 | 1.96 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 19702.55 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 635.45 |
| 10-20 | 1828.57 |
| 20-30 | 2802.36 |
| 30-40 | 3437.87 |
| 40-50 | 3635.03 |
| 50-60 | 3331.45 |
| 60-70 | 2547.37 |
| 70-80 | 1256.05 |
| 80-90 | 226.45 |
| 90-100 | 1.96 |
| 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 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 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 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

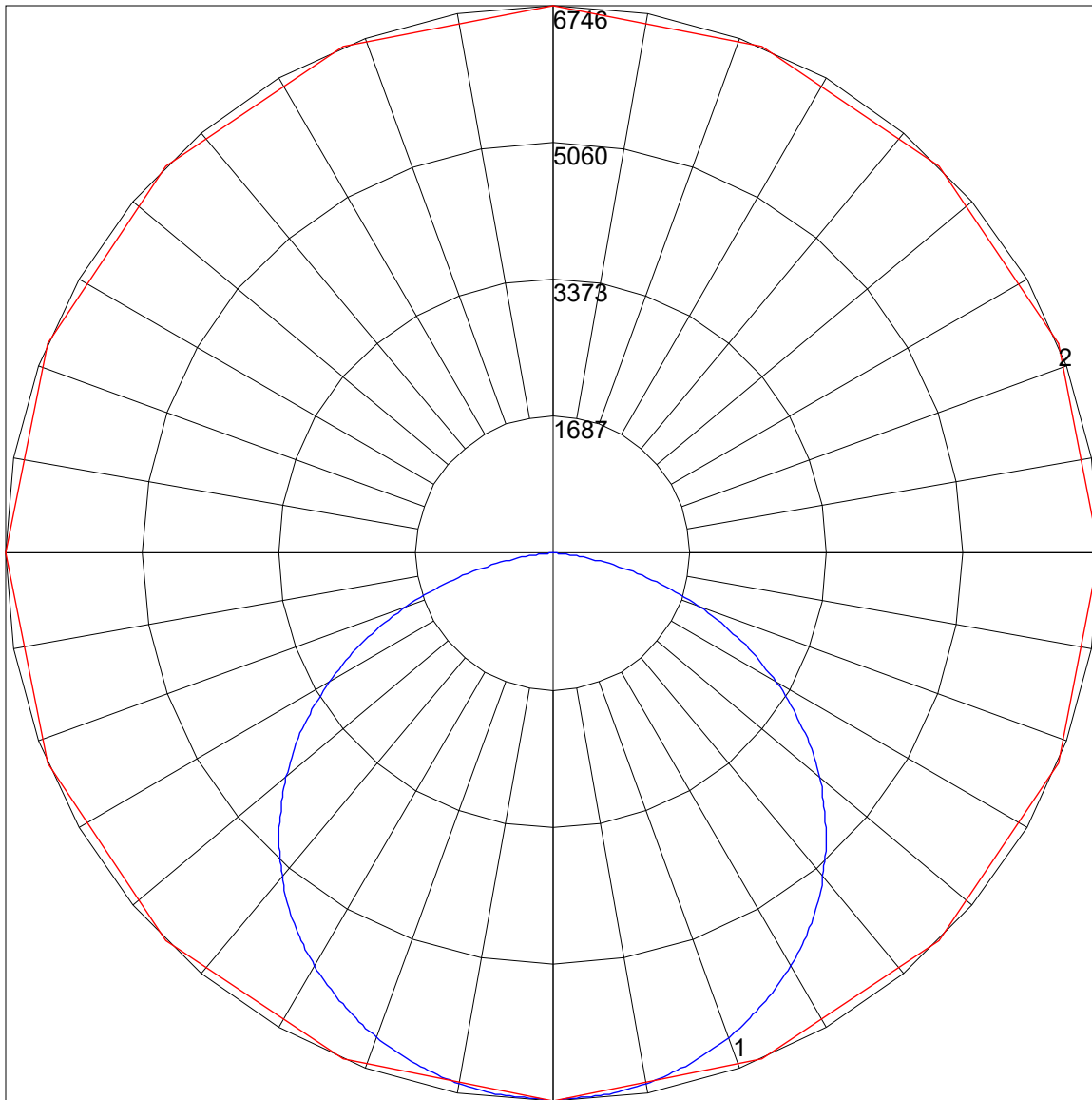
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 23.8 | 25.5 | 24.2 | 25.8 | 26.1 | 23.9 | 25.6 | 24.3 | 25.9 | 26.2 |
| | 3H | 25.6 | 27.1 | 26.0 | 27.4 | 27.8 | 25.9 | 27.4 | 26.3 | 27.7 | 28.1 |
| | 4H | 26.2 | 27.6 | 26.6 | 28.0 | 28.4 | 26.1 | 27.5 | 26.5 | 27.8 | 28.2 |
| | 6H | 26.6 | 27.9 | 27.0 | 28.3 | 28.6 | 26.2 | 27.5 | 26.6 | 27.9 | 28.3 |
| | 8H | 26.7 | 27.9 | 27.1 | 28.3 | 28.7 | 26.3 | 27.5 | 26.7 | 27.9 | 28.3 |
| | 12H | 26.7 | 27.9 | 27.1 | 28.3 | 28.7 | 26.3 | 27.5 | 26.7 | 27.8 | 28.3 |
| 4H | 2H | 24.5 | 25.9 | 24.9 | 26.3 | 26.6 | 24.6 | 26.0 | 25.0 | 26.3 | 26.7 |
| | 3H | 26.5 | 27.7 | 26.9 | 28.1 | 28.5 | 26.8 | 27.9 | 27.2 | 28.3 | 28.7 |
| | 4H | 27.2 | 28.3 | 27.6 | 28.7 | 29.1 | 27.0 | 28.1 | 27.4 | 28.5 | 28.9 |
| | 6H | 27.7 | 28.6 | 28.1 | 29.0 | 29.5 | 27.2 | 28.1 | 27.6 | 28.5 | 29.0 |
| | 8H | 27.8 | 28.7 | 28.3 | 29.1 | 29.6 | 27.2 | 28.1 | 27.7 | 28.5 | 29.0 |
| | 12H | 27.8 | 28.6 | 28.3 | 29.1 | 29.5 | 27.3 | 28.1 | 27.8 | 28.5 | 29.0 |
| 8H | 4H | 27.5 | 28.3 | 27.9 | 28.8 | 29.2 | 27.3 | 28.1 | 27.7 | 28.6 | 29.0 |
| | 6H | 28.0 | 28.7 | 28.5 | 29.2 | 29.7 | 27.5 | 28.2 | 28.0 | 28.7 | 29.2 |
| | 8H | 28.2 | 28.8 | 28.7 | 29.3 | 29.8 | 27.6 | 28.2 | 28.1 | 28.7 | 29.2 |
| | 12H | 28.2 | 28.8 | 28.7 | 29.3 | 29.9 | 27.6 | 28.2 | 28.2 | 28.7 | 29.3 |
| 12H | 4H | 27.5 | 28.2 | 27.9 | 28.7 | 29.2 | 27.3 | 28.1 | 27.8 | 28.5 | 29.0 |
| | 6H | 28.0 | 28.7 | 28.5 | 29.1 | 29.7 | 27.5 | 28.2 | 28.0 | 28.6 | 29.1 |
| | 8H | 28.2 | 28.8 | 28.7 | 29.3 | 29.8 | 27.6 | 28.2 | 28.1 | 28.7 | 29.2 |

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 6746 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)