



## Picasso Lighting

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLD-4-PD-4-D3-I3-30-80-FW-W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 13313159.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 11/13/2023JS  
[MANUFAC] Picasso Lighting Industries  
[LUMCAT] BLD-4-PD-4-D3-I3-30-80-FW-W  
[LUMINAIRE] Formed White aluminum housing, plastic lens enclosures  
[LAMP] 96 White LEDs down, 96 White LEDs up  
[BALLAST] Two ERP PSB50W-1200-42-S Driver  
[OTHER] 24.4 C, 119.989 V, 0.476329 A, 35.06 W, 0.974777 PF, 59.9705  
[MORE] Hz  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 3000                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 85                  |
| Total Luminaire Watts           | 35.46               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | General Diffuse     |
| Spacing Criterion (0-180)       | N.A.                |
| Spacing Criterion (90-270)      | N.A.                |
| Spacing Criterion (Diagonal)    | N.A.                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.00 ft             |
| Luminous Width (90-270)         | 0.13 ft             |
| Luminous Height                 | 0.33 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 8316             | 3373              | 2836              |
| 55                  | 7798             | 2674              | 2242              |
| 65                  | 7004             | 2014              | 1701              |
| 75                  | 5823             | 1385              | 1201              |
| 85                  | 4345             | 876               | 810               |

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**CANDELA TABULATION**

|       | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0   | 444.26     | 444.26      | 444.26      | 444.26      | 444.26      |
| 2.5   | 441.65     | 442.53      | 444.59      | 445.61      | 445.36      |
| 5.0   | 439.04     | 440.79      | 444.93      | 446.98      | 446.49      |
| 7.5   | 436.43     | 439.05      | 445.26      | 448.33      | 447.60      |
| 10.0  | 433.82     | 437.32      | 445.61      | 449.69      | 448.70      |
| 12.5  | 428.11     | 433.34      | 440.99      | 445.06      | 444.18      |
| 15.0  | 422.39     | 429.34      | 436.38      | 440.43      | 439.65      |
| 17.5  | 416.67     | 425.36      | 431.78      | 435.81      | 435.13      |
| 20.0  | 410.95     | 421.36      | 427.17      | 431.18      | 430.60      |
| 22.5  | 401.32     | 412.41      | 419.05      | 424.16      | 424.31      |
| 25.0  | 391.68     | 403.46      | 410.92      | 417.14      | 418.03      |
| 27.5  | 382.05     | 394.50      | 402.81      | 410.12      | 411.75      |
| 30.0  | 372.41     | 385.55      | 394.69      | 403.09      | 405.46      |
| 32.5  | 360.56     | 373.34      | 384.15      | 392.96      | 395.70      |
| 35.0  | 348.70     | 361.12      | 373.61      | 382.83      | 385.95      |
| 37.5  | 336.86     | 348.89      | 363.08      | 372.70      | 376.20      |
| 40.0  | 325.00     | 336.67      | 352.54      | 362.58      | 366.44      |
| 42.5  | 310.59     | 322.54      | 339.41      | 350.04      | 354.02      |
| 45.0  | 296.18     | 308.39      | 326.28      | 337.51      | 341.60      |
| 47.5  | 281.76     | 294.23      | 313.14      | 324.97      | 329.18      |
| 50.0  | 267.36     | 280.10      | 300.00      | 312.45      | 316.76      |
| 52.5  | 250.01     | 263.90      | 284.60      | 297.37      | 302.04      |
| 55.0  | 232.69     | 247.67      | 269.20      | 282.29      | 287.33      |
| 57.5  | 215.35     | 231.45      | 253.82      | 267.20      | 272.61      |
| 60.0  | 198.01     | 215.24      | 238.43      | 252.12      | 257.89      |
| 62.5  | 180.10     | 197.72      | 221.42      | 235.65      | 241.15      |
| 65.0  | 162.19     | 180.21      | 204.41      | 219.16      | 224.42      |
| 67.5  | 144.26     | 162.69      | 187.40      | 202.68      | 207.68      |
| 70.0  | 126.35     | 145.18      | 170.39      | 186.20      | 190.95      |
| 72.5  | 109.10     | 128.30      | 153.95      | 169.85      | 174.55      |
| 75.0  | 91.84      | 111.42      | 137.51      | 153.52      | 158.16      |
| 77.5  | 74.60      | 94.54       | 121.08      | 137.19      | 141.75      |
| 80.0  | 57.34      | 77.66       | 104.65      | 120.84      | 125.35      |
| 82.5  | 45.85      | 66.45       | 93.50       | 109.64      | 114.30      |
| 85.0  | 34.36      | 55.26       | 82.36       | 98.45       | 103.26      |
| 87.5  | 22.85      | 44.05       | 71.20       | 87.23       | 92.21       |
| 90.0  | 11.36      | 32.85       | 60.06       | 76.04       | 81.16       |
| 92.5  | 21.35      | 53.32       | 98.22       | 125.67      | 133.88      |
| 95.0  | 24.92      | 51.67       | 94.41       | 121.29      | 129.16      |
| 97.5  | 31.21      | 49.86       | 91.47       | 117.22      | 124.78      |
| 100.0 | 39.23      | 51.54       | 88.53       | 114.34      | 121.29      |
| 102.5 | 50.76      | 68.50       | 86.90       | 113.55      | 120.66      |
| 105.0 | 62.28      | 99.54       | 86.71       | 111.61      | 119.08      |
| 107.5 | 73.88      | 135.74      | 93.46       | 109.14      | 116.45      |
| 110.0 | 85.26      | 154.53      | 114.90      | 108.89      | 114.78      |
| 112.5 | 96.85      | 168.29      | 160.81      | 114.17      | 115.32      |
| 115.0 | 107.81     | 180.47      | 227.88      | 132.49      | 122.37      |
| 117.5 | 118.77     | 191.20      | 312.85      | 181.53      | 147.02      |
| 120.0 | 129.57     | 200.74      | 367.75      | 256.86      | 201.69      |
| 122.5 | 140.52     | 209.51      | 395.05      | 363.89      | 285.23      |
| 125.0 | 151.31     | 217.34      | 407.16      | 479.29      | 402.94      |
| 127.5 | 161.78     | 224.61      | 413.86      | 542.74      | 522.73      |
| 130.0 | 171.86     | 231.56      | 417.94      | 569.94      | 588.70      |
| 132.5 | 181.64     | 238.30      | 419.67      | 577.51      | 614.00      |

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**CANDELA TABULATION - (Cont.)**

|              |        |        |        |        |        |
|--------------|--------|--------|--------|--------|--------|
| <b>135.0</b> | 191.18 | 244.52 | 418.76 | 577.29 | 620.76 |
| <b>137.5</b> | 200.48 | 250.08 | 414.92 | 572.19 | 619.25 |
| <b>140.0</b> | 209.31 | 255.17 | 408.55 | 562.12 | 610.90 |
| <b>142.5</b> | 217.97 | 260.26 | 399.79 | 546.48 | 596.14 |
| <b>145.0</b> | 226.08 | 264.71 | 390.03 | 525.99 | 575.28 |
| <b>147.5</b> | 234.03 | 268.52 | 379.31 | 502.09 | 548.98 |
| <b>150.0</b> | 241.10 | 271.30 | 367.95 | 476.36 | 519.20 |
| <b>152.5</b> | 247.62 | 274.23 | 356.73 | 450.14 | 487.73 |
| <b>155.0</b> | 253.42 | 276.30 | 345.35 | 424.25 | 456.11 |
| <b>157.5</b> | 258.83 | 277.95 | 333.81 | 398.66 | 424.94 |
| <b>160.0</b> | 263.44 | 278.73 | 322.51 | 374.19 | 395.21 |
| <b>162.5</b> | 267.50 | 279.52 | 313.70 | 353.85 | 369.67 |
| <b>165.0</b> | 270.92 | 279.84 | 305.78 | 335.17 | 346.36 |
| <b>167.5</b> | 273.86 | 279.83 | 298.57 | 318.79 | 325.98 |
| <b>170.0</b> | 276.33 | 279.83 | 292.15 | 304.71 | 308.63 |
| <b>172.5</b> | 278.39 | 279.83 | 287.22 | 294.85 | 296.78 |
| <b>175.0</b> | 279.75 | 279.75 | 283.41 | 287.94 | 287.95 |
| <b>177.5</b> | 280.62 | 279.67 | 281.41 | 283.72 | 282.85 |
| <b>180.0</b> | 280.49 | 280.49 | 280.49 | 280.49 | 280.49 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 165.20  | N.A.  | 5.50   |
| 0-30    | 354.12  | N.A.  | 11.80  |
| 0-40    | 586.79  | N.A.  | 19.60  |
| 0-60    | 1073.21 | N.A.  | 35.80  |
| 0-80    | 1409.83 | N.A.  | 47.00  |
| 0-90    | 1492.92 | N.A.  | 49.80  |
| 10-90   | 1450.56 | N.A.  | 48.40  |
| 20-40   | 421.59  | N.A.  | 14.10  |
| 20-50   | 670.99  | N.A.  | 22.40  |
| 40-70   | 683.79  | N.A.  | 22.80  |
| 60-80   | 336.61  | N.A.  | 11.20  |
| 70-80   | 139.24  | N.A.  | 4.60   |
| 80-90   | 83.09   | N.A.  | 2.80   |
| 90-110  | 193.90  | N.A.  | 6.50   |
| 90-120  | 364.20  | N.A.  | 12.10  |
| 90-130  | 664.56  | N.A.  | 22.20  |
| 90-150  | 1229.14 | N.A.  | 41.00  |
| 90-180  | 1507.03 | N.A.  | 50.20  |
| 110-180 | 1313.13 | N.A.  | 43.80  |
| 0-180   | 2999.95 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 42.36  |
| 10-20   | 122.84 |
| 20-30   | 188.92 |
| 30-40   | 232.67 |
| 40-50   | 249.40 |
| 50-60   | 237.02 |
| 60-70   | 197.37 |
| 70-80   | 139.24 |
| 80-90   | 83.09  |
| 90-100  | 89.37  |
| 100-110 | 104.54 |
| 110-120 | 170.30 |
| 120-130 | 300.37 |
| 130-140 | 316.70 |
| 140-150 | 247.88 |
| 150-160 | 162.71 |
| 160-170 | 87.82  |
| 170-180 | 27.36  |

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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  | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1  | 97  | 92  | 87  | 84  | 89 | 85 | 81 | 78 | 71 | 69 | 66 | 59 | 57 | 55 | 48 | 46 | 45 | 40 |
| 2  | 87  | 79  | 73  | 67  | 80 | 73 | 68 | 63 | 62 | 57 | 54 | 51 | 48 | 45 | 41 | 39 | 37 | 32 |
| 3  | 79  | 69  | 62  | 55  | 73 | 64 | 57 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 4  | 73  | 61  | 53  | 47  | 66 | 57 | 49 | 43 | 48 | 42 | 38 | 40 | 35 | 32 | 32 | 29 | 26 | 23 |
| 5  | 66  | 54  | 46  | 40  | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 35 | 31 | 27 | 29 | 25 | 23 | 19 |
| 6  | 61  | 49  | 40  | 34  | 56 | 45 | 37 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 17 |
| 7  | 56  | 44  | 36  | 30  | 52 | 41 | 33 | 28 | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 17 | 15 |
| 8  | 52  | 40  | 32  | 26  | 48 | 37 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9  | 49  | 36  | 28  | 23  | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 16 | 14 | 12 |
| 10 | 45  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 15 | 13 | 11 |

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**UGR TABLE - CORRECTED**

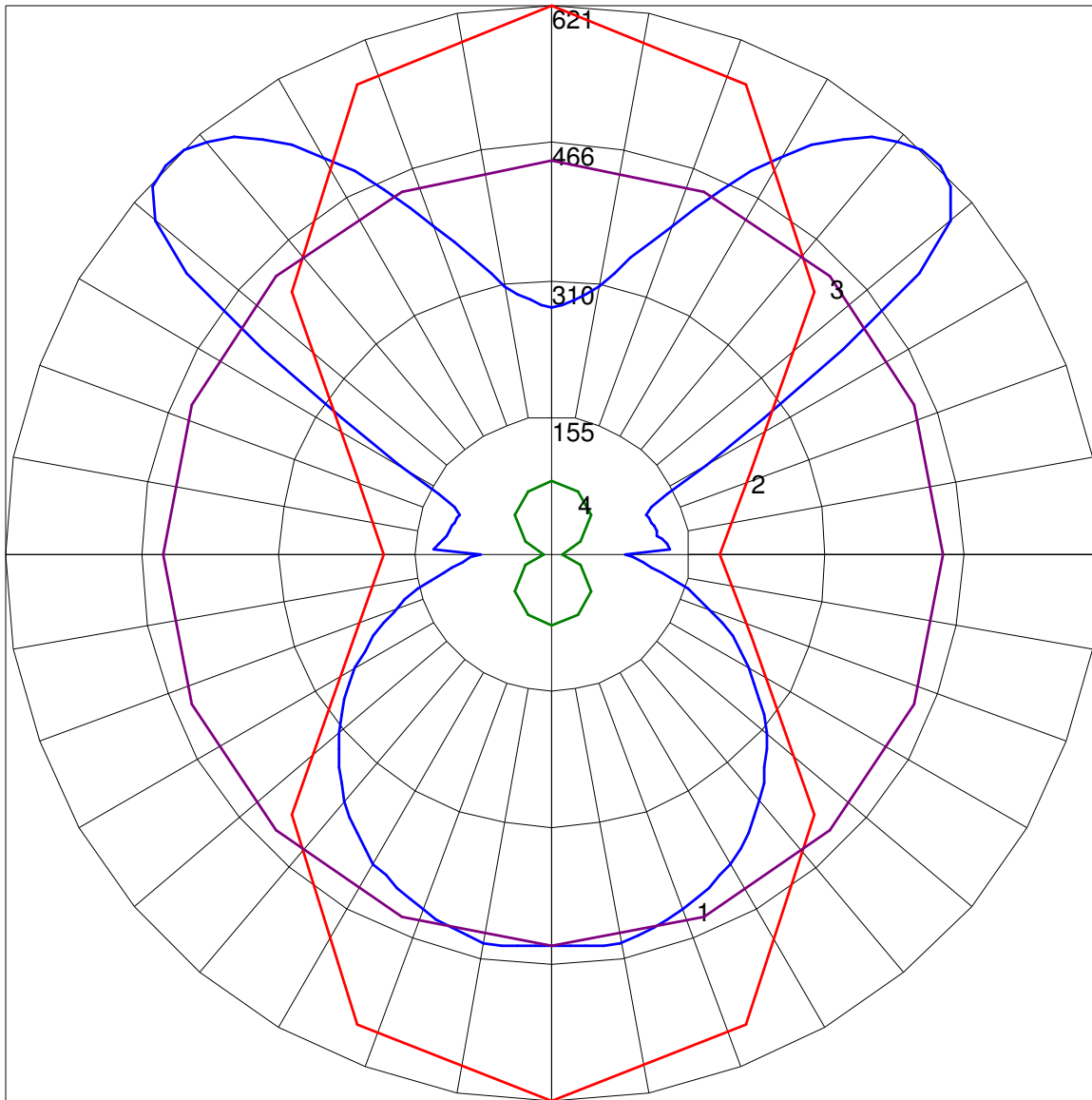
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 10.1                 | 11.0 | 11.1 | 12.0 | 13.3 | 13.7               | 14.6 | 14.7 | 15.6 | 16.9 |
|           | 3H   | 11.4                 | 12.2 | 12.4 | 13.2 | 14.5 | 16.0               | 16.8 | 17.0 | 17.8 | 19.1 |
|           | 4H   | 11.8                 | 12.6 | 12.8 | 13.5 | 14.8 | 17.0               | 17.8 | 18.0 | 18.8 | 20.1 |
|           | 6H   | 12.0                 | 12.7 | 13.0 | 13.7 | 15.0 | 18.0               | 18.7 | 19.0 | 19.7 | 21.0 |
|           | 8H   | 12.1                 | 12.7 | 13.1 | 13.7 | 15.1 | 18.5               | 19.2 | 19.5 | 20.2 | 21.5 |
|           | 12H  | 12.1                 | 12.7 | 13.1 | 13.7 | 15.1 | 19.0               | 19.7 | 20.0 | 20.7 | 22.0 |
| 4H        | 2H   | 11.0                 | 11.7 | 12.0 | 12.7 | 14.0 | 13.9               | 14.7 | 14.9 | 15.7 | 17.0 |
|           | 3H   | 12.4                 | 13.1 | 13.4 | 14.1 | 15.4 | 16.3               | 17.0 | 17.3 | 18.0 | 19.3 |
|           | 4H   | 12.9                 | 13.5 | 13.9 | 14.5 | 15.9 | 17.4               | 18.0 | 18.4 | 19.1 | 20.4 |
|           | 6H   | 13.3                 | 13.8 | 14.3 | 14.8 | 16.1 | 18.6               | 19.1 | 19.6 | 20.1 | 21.4 |
|           | 8H   | 13.3                 | 13.8 | 14.3 | 14.8 | 16.2 | 19.1               | 19.6 | 20.1 | 20.6 | 22.0 |
|           | 12H  | 13.4                 | 13.8 | 14.4 | 14.9 | 16.2 | 19.7               | 20.2 | 20.8 | 21.2 | 22.6 |
| 8H        | 4H   | 13.5                 | 13.9 | 14.5 | 15.0 | 16.3 | 17.5               | 18.0 | 18.5 | 19.0 | 20.3 |
|           | 6H   | 13.9                 | 14.3 | 14.9 | 15.4 | 16.7 | 18.7               | 19.1 | 19.7 | 20.2 | 21.5 |
|           | 8H   | 14.1                 | 14.4 | 15.1 | 15.5 | 16.8 | 19.3               | 19.7 | 20.4 | 20.7 | 22.1 |
|           | 12H  | 14.2                 | 14.5 | 15.2 | 15.5 | 17.0 | 20.1               | 20.4 | 21.1 | 21.4 | 22.8 |
| 12H       | 4H   | 13.6                 | 14.0 | 14.6 | 15.0 | 16.4 | 17.4               | 17.9 | 18.5 | 18.9 | 20.3 |
|           | 6H   | 14.1                 | 14.5 | 15.1 | 15.5 | 16.9 | 18.7               | 19.0 | 19.7 | 20.1 | 21.5 |
|           | 8H   | 14.3                 | 14.6 | 15.4 | 15.7 | 17.1 | 19.3               | 19.7 | 20.4 | 20.7 | 22.1 |

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 620.76 Located At Horizontal Angle = 90, Vertical Angle = 135  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (2)  
# 4 - Horizontal Cone Through Vertical Angle (90)