



Picasso Lighting

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLD-4-PD-4-D3-35-80-FW-W.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2019.2.0

[ISSUE DATE] 11/13/2023JS

[TEST DATE] Tue Oct 08 10:52:55 2019

[TEST] IES-P00246

[MANUFAC] Picasso Lighting Industries, LLC

[LUMCAT] BLD-4-PD-4-D3-35-80-FW-W

[LUMINAIRE] Blade 4" - White Housing - Suspended - Semi-Direct - 1/2" Drop Frosted White Lens

[LAMP] LED (3500K 80+ CRI)

[OTHER]

[OTHER] This test was performed using absolute photometry.

[OTHER]

[OTHER] Indoor Photometric Report

[OTHER] Distribution: Semi-Direct

[OTHER] Symmetry: Quadrilateral

[OTHER] Photometric Type: C

[OTHER]

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 1500                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 75                  |
| Total Luminaire Watts           | 20.1                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.26                |
| Spacing Criterion (90-270)      | 1.36                |
| Spacing Criterion (Diagonal)    | 1.46                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.00 ft             |
| Luminous Width (90-270)         | 0.11 ft             |
| Luminous Height                 | 0.04 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 10531            | 9117              | 8805              |
| 55                  | 10154            | 8467              | 8145              |
| 65                  | 9536             | 7618              | 7314              |
| 75                  | 8677             | 6531              | 6286              |
| 85                  | 8949             | 5627              | 5472              |

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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  | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 95.0  | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 97.5  | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 100.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 102.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 105.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 107.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 110.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 112.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 115.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 117.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 120.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 122.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 125.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 127.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 130.0 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| 132.5 | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |

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**CANDELA TABULATION - (Cont.)**

|       |      |      |      |      |      |
|-------|------|------|------|------|------|
| 135.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 142.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 152.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 157.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 167.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 165.20  | N.A.  | 11.00  |
| 0-30    | 354.12  | N.A.  | 23.60  |
| 0-40    | 586.79  | N.A.  | 39.10  |
| 0-60    | 1073.21 | N.A.  | 71.50  |
| 0-80    | 1409.83 | N.A.  | 94.00  |
| 0-90    | 1492.92 | N.A.  | 99.50  |
| 10-90   | 1450.56 | N.A.  | 96.70  |
| 20-40   | 421.59  | N.A.  | 28.10  |
| 20-50   | 670.99  | N.A.  | 44.70  |
| 40-70   | 683.79  | N.A.  | 45.60  |
| 60-80   | 336.61  | N.A.  | 22.40  |
| 70-80   | 139.24  | N.A.  | 9.30   |
| 80-90   | 83.09   | N.A.  | 5.50   |
| 90-110  | 7.37    | N.A.  | 0.50   |
| 90-120  | 7.37    | N.A.  | 0.50   |
| 90-130  | 7.37    | N.A.  | 0.50   |
| 90-150  | 7.37    | N.A.  | 0.50   |
| 90-180  | 7.37    | N.A.  | 0.50   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1500.29 | 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  | 7.37   |
| 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  | 107 | 101 | 96  | 91  | 104 | 99  | 94  | 90  | 94  | 90  | 87  | 90  | 87  | 84  | 86  | 84  | 81  | 79  |
| 2  | 96  | 87  | 79  | 73  | 93  | 85  | 78  | 72  | 81  | 75  | 70  | 78  | 73  | 68  | 75  | 70  | 67  | 64  |
| 3  | 87  | 76  | 67  | 60  | 85  | 74  | 66  | 59  | 71  | 64  | 58  | 68  | 62  | 57  | 65  | 60  | 56  | 53  |
| 4  | 80  | 67  | 57  | 50  | 77  | 65  | 57  | 50  | 63  | 55  | 49  | 60  | 54  | 48  | 58  | 52  | 47  | 45  |
| 5  | 73  | 59  | 50  | 43  | 71  | 58  | 49  | 43  | 56  | 48  | 42  | 54  | 47  | 41  | 52  | 46  | 41  | 39  |
| 6  | 67  | 53  | 44  | 37  | 65  | 52  | 43  | 37  | 50  | 42  | 37  | 49  | 42  | 36  | 47  | 41  | 36  | 34  |
| 7  | 62  | 48  | 39  | 33  | 61  | 47  | 39  | 32  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 30  |
| 8  | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |
| 9  | 54  | 40  | 32  | 26  | 53  | 40  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 25  | 23  |
| 10 | 51  | 37  | 29  | 23  | 49  | 37  | 29  | 23  | 35  | 28  | 23  | 34  | 28  | 23  | 34  | 27  | 23  | 21  |

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**UGR TABLE - CORRECTED**

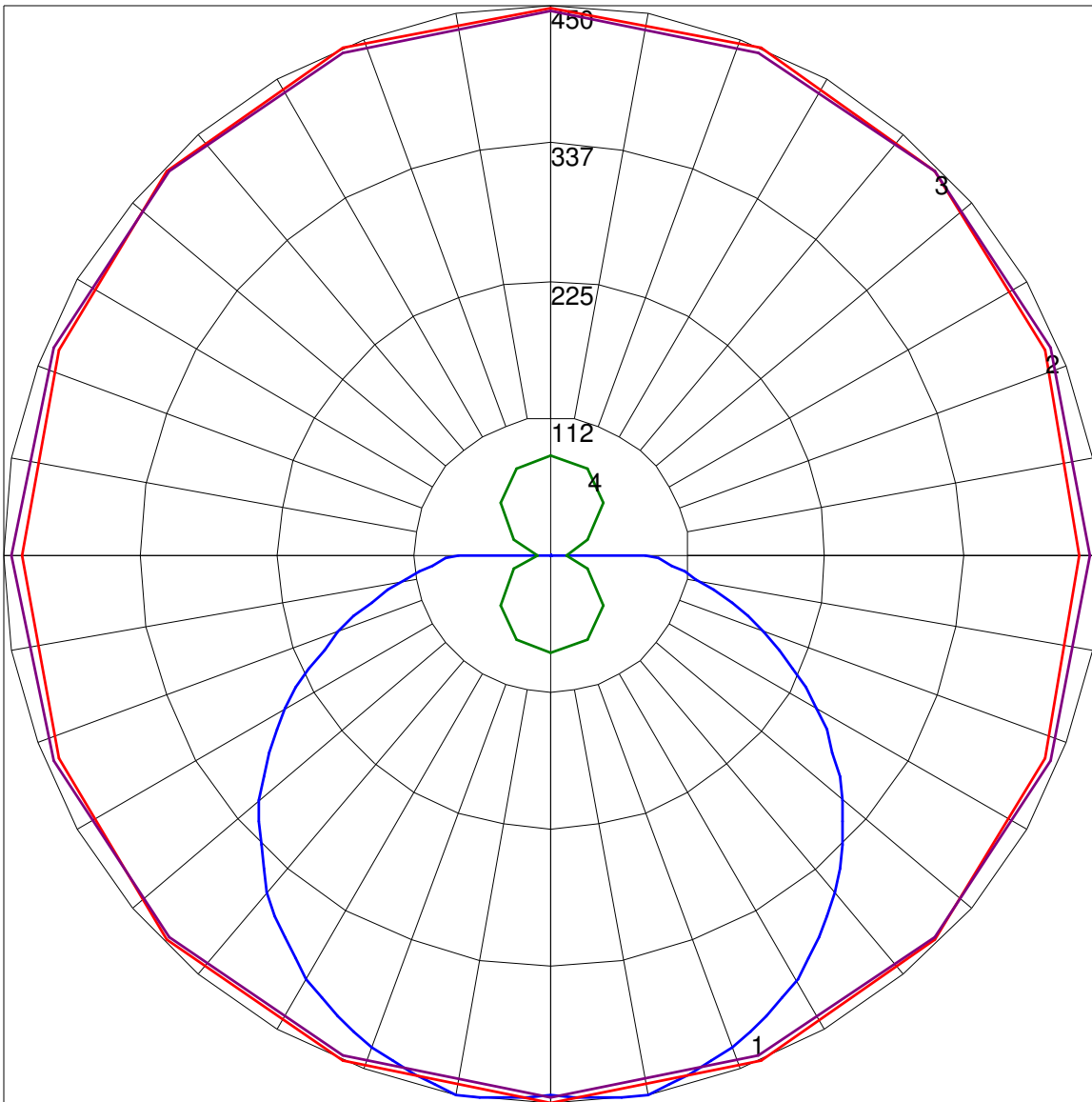
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 18.4                 | 20.1 | 18.8 | 20.5 | 20.8 | 20.5               | 22.2 | 20.9 | 22.5 | 22.8 |
|           | 3H   | 20.0                 | 21.6 | 20.4 | 21.9 | 22.3 | 22.9               | 24.4 | 23.2 | 24.8 | 25.1 |
|           | 4H   | 20.6                 | 22.0 | 21.0 | 22.4 | 22.8 | 24.0               | 25.4 | 24.3 | 25.8 | 26.2 |
|           | 6H   | 20.9                 | 22.3 | 21.3 | 22.7 | 23.1 | 25.0               | 26.4 | 25.4 | 26.8 | 27.2 |
|           | 8H   | 21.0                 | 22.4 | 21.5 | 22.7 | 23.1 | 25.6               | 26.9 | 26.0 | 27.3 | 27.7 |
|           | 12H  | 21.1                 | 22.4 | 21.5 | 22.8 | 23.2 | 26.2               | 27.5 | 26.6 | 27.9 | 28.3 |
| 4H        | 2H   | 19.4                 | 20.8 | 19.8 | 21.2 | 21.6 | 21.0               | 22.5 | 21.4 | 22.8 | 23.2 |
|           | 3H   | 21.2                 | 22.4 | 21.6 | 22.8 | 23.2 | 23.5               | 24.8 | 23.9 | 25.2 | 25.6 |
|           | 4H   | 21.8                 | 23.0 | 22.3 | 23.4 | 23.8 | 24.8               | 25.9 | 25.2 | 26.4 | 26.8 |
|           | 6H   | 22.3                 | 23.4 | 22.8 | 23.8 | 24.2 | 26.0               | 27.1 | 26.5 | 27.5 | 27.9 |
|           | 8H   | 22.5                 | 23.5 | 22.9 | 23.9 | 24.4 | 26.7               | 27.6 | 27.1 | 28.1 | 28.5 |
|           | 12H  | 22.6                 | 23.5 | 23.1 | 24.0 | 24.4 | 27.4               | 28.3 | 27.9 | 28.8 | 29.2 |
| 8H        | 4H   | 22.5                 | 23.4 | 22.9 | 23.9 | 24.3 | 25.0               | 26.0 | 25.5 | 26.4 | 26.9 |
|           | 6H   | 23.1                 | 23.9 | 23.6 | 24.4 | 24.9 | 26.4               | 27.2 | 26.9 | 27.7 | 28.2 |
|           | 8H   | 23.4                 | 24.1 | 23.9 | 24.6 | 25.1 | 27.2               | 27.9 | 27.7 | 28.4 | 28.9 |
|           | 12H  | 23.6                 | 24.2 | 24.1 | 24.7 | 25.3 | 28.1               | 28.7 | 28.6 | 29.2 | 29.8 |
| 12H       | 4H   | 22.6                 | 23.5 | 23.1 | 24.0 | 24.4 | 25.0               | 25.9 | 25.5 | 26.4 | 26.8 |
|           | 6H   | 23.4                 | 24.1 | 23.9 | 24.6 | 25.1 | 26.5               | 27.2 | 27.0 | 27.7 | 28.2 |
|           | 8H   | 23.7                 | 24.4 | 24.2 | 24.8 | 25.4 | 27.3               | 27.9 | 27.8 | 28.4 | 29.0 |

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 449.69 Located At Horizontal Angle = 67.5, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (2)  
# 4 - Horizontal Cone Through Vertical Angle (90)