



## Picasso Lighting

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLD-2-PD-4-D5-40-80-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-2-PD-4-D5-40-80-FW-W

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

[LAMP] LED (4000K 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                | 2000                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 77                  |
| Total Luminaire Watts           | 26.1                |
| 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                  | 14039            | 12153             | 11739             |
| 55                  | 13537            | 11288             | 10859             |
| 65                  | 12712            | 10156             | 9751              |
| 75                  | 11568            | 8707              | 8380              |
| 85                  | 11929            | 7501              | 7295              |

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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   | 592.25     | 592.25      | 592.25      | 592.25      | 592.25      |
| 2.5   | 588.77     | 589.94      | 592.70      | 594.06      | 593.73      |
| 5.0   | 585.30     | 587.64      | 593.15      | 595.88      | 595.22      |
| 7.5   | 581.82     | 585.32      | 593.60      | 597.68      | 596.70      |
| 10.0  | 578.35     | 583.01      | 594.06      | 599.50      | 598.18      |
| 12.5  | 570.72     | 577.69      | 587.90      | 593.32      | 592.15      |
| 15.0  | 563.10     | 572.36      | 581.76      | 587.16      | 586.11      |
| 17.5  | 555.48     | 567.06      | 575.61      | 580.99      | 580.08      |
| 20.0  | 547.85     | 561.73      | 569.47      | 574.82      | 574.04      |
| 22.5  | 535.01     | 549.79      | 558.65      | 565.46      | 565.67      |
| 25.0  | 522.16     | 537.87      | 547.81      | 556.10      | 557.29      |
| 27.5  | 509.33     | 525.92      | 536.99      | 546.74      | 548.92      |
| 30.0  | 496.48     | 513.99      | 526.17      | 537.37      | 540.53      |
| 32.5  | 480.68     | 497.70      | 512.12      | 523.88      | 527.52      |
| 35.0  | 464.88     | 481.42      | 498.08      | 510.36      | 514.52      |
| 37.5  | 449.07     | 465.12      | 484.03      | 496.87      | 501.52      |
| 40.0  | 433.26     | 448.82      | 469.99      | 483.36      | 488.51      |
| 42.5  | 414.05     | 429.98      | 452.48      | 466.65      | 471.96      |
| 45.0  | 394.85     | 411.12      | 434.96      | 449.95      | 455.40      |
| 47.5  | 375.63     | 392.26      | 417.45      | 433.23      | 438.83      |
| 50.0  | 356.42     | 373.42      | 399.93      | 416.53      | 422.28      |
| 52.5  | 333.30     | 351.80      | 379.41      | 396.43      | 402.66      |
| 55.0  | 310.21     | 330.18      | 358.89      | 376.32      | 383.04      |
| 57.5  | 287.09     | 308.55      | 338.38      | 356.22      | 363.41      |
| 60.0  | 263.98     | 286.95      | 317.85      | 336.12      | 343.79      |
| 62.5  | 240.10     | 263.59      | 295.18      | 314.15      | 321.49      |
| 65.0  | 216.21     | 240.24      | 272.50      | 292.17      | 299.19      |
| 67.5  | 192.32     | 216.88      | 249.82      | 270.20      | 276.86      |
| 70.0  | 168.44     | 193.53      | 227.15      | 248.22      | 254.56      |
| 72.5  | 145.44     | 171.04      | 205.23      | 226.44      | 232.70      |
| 75.0  | 122.44     | 148.54      | 183.32      | 204.67      | 210.84      |
| 77.5  | 99.45      | 126.03      | 161.42      | 182.89      | 188.97      |
| 80.0  | 76.44      | 103.53      | 139.50      | 161.11      | 167.10      |
| 82.5  | 61.13      | 88.59       | 124.64      | 146.17      | 152.37      |
| 85.0  | 45.80      | 73.66       | 109.79      | 131.24      | 137.65      |
| 87.5  | 30.46      | 58.72       | 94.92       | 116.30      | 122.92      |
| 90.0  | 15.14      | 43.79       | 80.06       | 101.37      | 108.19      |
| 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    | 220.23  | N.A.  | 11.00  |
| 0-30    | 472.09  | N.A.  | 23.60  |
| 0-40    | 782.27  | N.A.  | 39.10  |
| 0-60    | 1430.74 | N.A.  | 71.50  |
| 0-80    | 1879.48 | N.A.  | 94.00  |
| 0-90    | 1990.25 | N.A.  | 99.50  |
| 10-90   | 1933.78 | N.A.  | 96.70  |
| 20-40   | 562.03  | N.A.  | 28.10  |
| 20-50   | 894.52  | N.A.  | 44.70  |
| 40-70   | 911.58  | N.A.  | 45.60  |
| 60-80   | 448.74  | N.A.  | 22.40  |
| 70-80   | 185.63  | N.A.  | 9.30   |
| 80-90   | 110.77  | N.A.  | 5.50   |
| 90-110  | 9.83    | N.A.  | 0.50   |
| 90-120  | 9.83    | N.A.  | 0.50   |
| 90-130  | 9.83    | N.A.  | 0.50   |
| 90-150  | 9.83    | N.A.  | 0.50   |
| 90-180  | 9.83    | N.A.  | 0.50   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 2000.08 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 56.47  |
| 10-20   | 163.77 |
| 20-30   | 251.86 |
| 30-40   | 310.18 |
| 40-50   | 332.48 |
| 50-60   | 315.98 |
| 60-70   | 263.11 |
| 70-80   | 185.63 |
| 80-90   | 110.77 |
| 90-100  | 9.83   |
| 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  | 29  |
| 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**

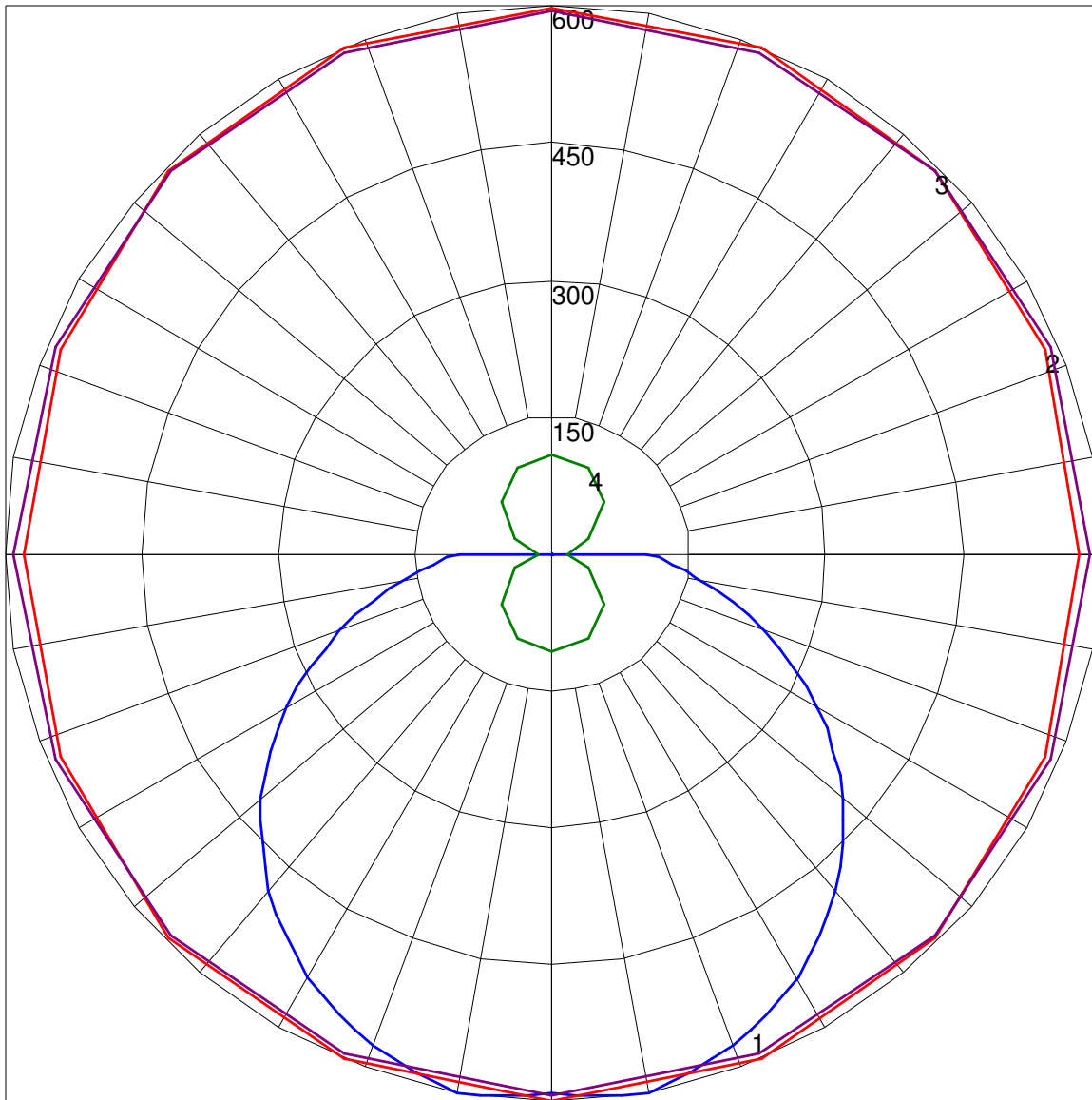
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 19.4                 | 21.1 | 19.7 | 21.4 | 21.7 | 21.4               | 23.1 | 21.8 | 23.5 | 23.8 |
|           | 3H   | 20.9                 | 22.5 | 21.3 | 22.8 | 23.2 | 23.8               | 25.3 | 24.2 | 25.7 | 26.1 |
|           | 4H   | 21.5                 | 22.9 | 21.9 | 23.3 | 23.7 | 24.9               | 26.3 | 25.3 | 26.7 | 27.1 |
|           | 6H   | 21.8                 | 23.2 | 22.3 | 23.6 | 24.0 | 26.0               | 27.3 | 26.4 | 27.7 | 28.1 |
|           | 8H   | 22.0                 | 23.3 | 22.4 | 23.7 | 24.1 | 26.5               | 27.8 | 27.0 | 28.2 | 28.7 |
|           | 12H  | 22.0                 | 23.3 | 22.5 | 23.7 | 24.1 | 27.1               | 28.4 | 27.6 | 28.8 | 29.3 |
| 4H        | 2H   | 20.3                 | 21.8 | 20.7 | 22.1 | 22.5 | 21.9               | 23.4 | 22.3 | 23.7 | 24.1 |
|           | 3H   | 22.1                 | 23.3 | 22.5 | 23.8 | 24.2 | 24.5               | 25.7 | 24.9 | 26.1 | 26.6 |
|           | 4H   | 22.8                 | 23.9 | 23.2 | 24.3 | 24.8 | 25.7               | 26.9 | 26.2 | 27.3 | 27.7 |
|           | 6H   | 23.3                 | 24.3 | 23.7 | 24.7 | 25.2 | 27.0               | 28.0 | 27.4 | 28.4 | 28.9 |
|           | 8H   | 23.4                 | 24.4 | 23.9 | 24.8 | 25.3 | 27.6               | 28.6 | 28.1 | 29.0 | 29.5 |
|           | 12H  | 23.5                 | 24.4 | 24.0 | 24.9 | 25.4 | 28.4               | 29.2 | 28.8 | 29.7 | 30.2 |
| 8H        | 4H   | 23.4                 | 24.3 | 23.9 | 24.8 | 25.3 | 25.9               | 26.9 | 26.4 | 27.3 | 27.8 |
|           | 6H   | 24.1                 | 24.9 | 24.6 | 25.4 | 25.9 | 27.3               | 28.1 | 27.8 | 28.6 | 29.1 |
|           | 8H   | 24.3                 | 25.0 | 24.8 | 25.5 | 26.0 | 28.1               | 28.8 | 28.6 | 29.3 | 29.9 |
|           | 12H  | 24.5                 | 25.2 | 25.0 | 25.7 | 26.2 | 29.0               | 29.7 | 29.5 | 30.2 | 30.7 |
| 12H       | 4H   | 23.6                 | 24.4 | 24.0 | 24.9 | 25.4 | 26.0               | 26.8 | 26.5 | 27.3 | 27.8 |
|           | 6H   | 24.3                 | 25.0 | 24.8 | 25.5 | 26.1 | 27.4               | 28.1 | 27.9 | 28.6 | 29.1 |
|           | 8H   | 24.6                 | 25.3 | 25.1 | 25.8 | 26.3 | 28.2               | 28.9 | 28.7 | 29.4 | 29.9 |

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 599.5 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)