

## Photometric Test Report

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : L052411802.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L052411802  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 5/30/2024  
 [MANUFAC] Bartco Lighting, Inc.  
 [LUMCAT] BSW210-4-35-IN-R-A-SM-SN-AW  
 [LUMINAIRE] Fathom 2-1/8" Wide Drop Lens LED Luminaire for Outdoor Locations,  
 [MORE] 48-5/8" Nom. O.A., 3500K, 120-277V Non-Dimming Driver, Reg.Output,  
 [MORE] Surface Mount, Single Config., Architectural White Finish  
 [BALLASTCAT] AMPEROR ANP101-24P1-277-2500L-1-P  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 120VAC  
 [TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 2910                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 127                 |
| Total Luminaire Watts           | 22.89               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Semi-Direct         |
| Spacing Criterion (0-180)       | 1.16                |
| Spacing Criterion (90-270)      | 1.66                |
| Spacing Criterion (Diagonal)    | 1.62                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.00 ft             |
| Luminous Width (90-270)         | 0.17 ft             |
| Luminous Height                 | 0.17 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 5814             | 5317              | 5513              |
| 55                  | 6628             | 5144              | 5269              |
| 65                  | 7168             | 4901              | 4998              |
| 75                  | 6856             | 4414              | 4713              |
| 85                  | 7816             | 4023              | 4438              |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 179.60  | N.A.  | 6.20   |
| 0-30    | 393.29  | N.A.  | 13.50  |
| 0-40    | 666.81  | N.A.  | 22.90  |
| 0-60    | 1313.54 | N.A.  | 45.10  |
| 0-80    | 1919.94 | N.A.  | 66.00  |
| 0-90    | 2143.37 | N.A.  | 73.70  |
| 10-90   | 2098.29 | N.A.  | 72.10  |
| 20-40   | 487.21  | N.A.  | 16.70  |
| 20-50   | 799.73  | N.A.  | 27.50  |
| 40-70   | 972.89  | N.A.  | 33.40  |
| 60-80   | 606.41  | N.A.  | 20.80  |
| 70-80   | 280.25  | N.A.  | 9.60   |
| 80-90   | 223.42  | N.A.  | 7.70   |
| 90-110  | 370.95  | N.A.  | 12.70  |
| 90-120  | 517.18  | N.A.  | 17.80  |
| 90-130  | 625.51  | N.A.  | 21.50  |
| 90-150  | 735.81  | N.A.  | 25.30  |
| 90-180  | 766.54  | N.A.  | 26.30  |
| 110-180 | 395.59  | N.A.  | 13.60  |
| 0-180   | 2909.91 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 45.08  |
| 10-20   | 134.52 |
| 20-30   | 213.69 |
| 30-40   | 273.51 |
| 40-50   | 312.52 |
| 50-60   | 334.21 |
| 60-70   | 326.16 |
| 70-80   | 280.25 |
| 80-90   | 223.43 |
| 90-100  | 194.46 |
| 100-110 | 176.48 |
| 110-120 | 146.24 |
| 120-130 | 108.33 |
| 130-140 | 68.74  |
| 140-150 | 41.55  |
| 150-160 | 21.59  |
| 160-170 | 7.92   |
| 170-180 | 1.23   |

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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  | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 87 | 87 | 87 | 78 | 78 | 78 | 74 | 0 |
| 1  | 99  | 93  | 88  | 83  | 94  | 88  | 84  | 79  | 79 | 75 | 72 | 71 | 68 | 65 | 63 | 61 | 58 | 54 | 0 |
| 2  | 89  | 79  | 71  | 65  | 84  | 75  | 68  | 62  | 67 | 61 | 56 | 60 | 55 | 51 | 53 | 50 | 46 | 43 | 0 |
| 3  | 80  | 69  | 59  | 52  | 75  | 65  | 57  | 50  | 58 | 51 | 46 | 52 | 46 | 42 | 46 | 42 | 38 | 34 | 0 |
| 4  | 73  | 60  | 50  | 43  | 68  | 57  | 48  | 41  | 51 | 44 | 38 | 45 | 40 | 35 | 40 | 35 | 31 | 28 | 0 |
| 5  | 67  | 53  | 43  | 36  | 63  | 50  | 42  | 35  | 45 | 38 | 32 | 40 | 34 | 29 | 36 | 31 | 27 | 24 | 0 |
| 6  | 61  | 47  | 38  | 31  | 58  | 45  | 36  | 30  | 40 | 33 | 28 | 36 | 30 | 25 | 32 | 27 | 23 | 20 | 0 |
| 7  | 57  | 43  | 33  | 27  | 53  | 40  | 32  | 26  | 37 | 29 | 24 | 33 | 27 | 22 | 29 | 24 | 20 | 18 | 0 |
| 8  | 52  | 39  | 30  | 24  | 49  | 37  | 29  | 23  | 33 | 26 | 21 | 30 | 24 | 20 | 27 | 22 | 18 | 16 | 0 |
| 9  | 49  | 35  | 27  | 21  | 46  | 34  | 26  | 20  | 30 | 24 | 19 | 27 | 22 | 17 | 25 | 20 | 16 | 14 | 0 |
| 10 | 46  | 32  | 24  | 19  | 43  | 31  | 23  | 18  | 28 | 21 | 17 | 25 | 20 | 16 | 23 | 18 | 14 | 12 | 0 |

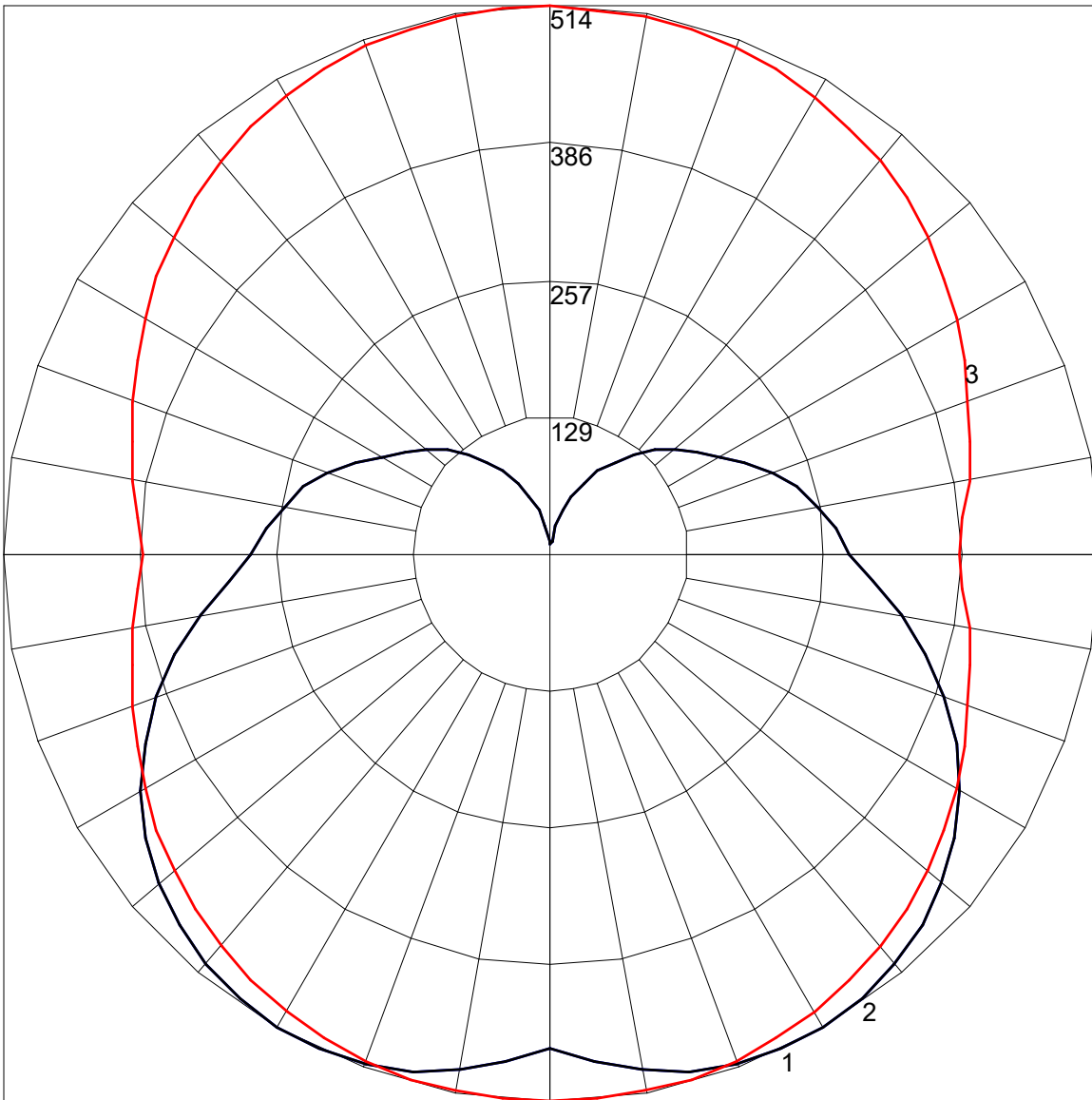
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**UGR TABLE - CORRECTED**

| 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 | 13.9                 | 15.2 | 14.6 | 15.9 | 16.8 | 18.2               | 19.5 | 18.9 | 20.2 | 21.1 |
|                | 3H   | 15.6                 | 16.8 | 16.4 | 17.6 | 18.5 | 21.3               | 22.5 | 22.0 | 23.2 | 24.1 |
|                | 4H   | 16.2                 | 17.3 | 16.9 | 18.1 | 19.0 | 22.8               | 23.9 | 23.6 | 24.7 | 25.6 |
|                | 6H   | 16.6                 | 17.7 | 17.4 | 18.4 | 19.4 | 24.4               | 25.5 | 25.2 | 26.2 | 27.2 |
|                | 8H   | 16.8                 | 17.8 | 17.5 | 18.5 | 19.5 | 25.3               | 26.3 | 26.0 | 27.1 | 28.0 |
|                | 12H  | 16.9                 | 17.8 | 17.6 | 18.6 | 19.6 | 26.2               | 27.2 | 27.0 | 27.9 | 28.9 |
| 4H             | 2H   | 15.3                 | 16.4 | 16.0 | 17.2 | 18.1 | 18.5               | 19.6 | 19.3 | 20.4 | 21.3 |
|                | 3H   | 17.3                 | 18.2 | 18.0 | 19.0 | 20.0 | 21.8               | 22.7 | 22.5 | 23.5 | 24.5 |
|                | 4H   | 18.0                 | 18.9 | 18.8 | 19.7 | 20.6 | 23.5               | 24.3 | 24.2 | 25.1 | 26.1 |
|                | 6H   | 18.6                 | 19.3 | 19.3 | 20.2 | 21.1 | 25.3               | 26.1 | 26.0 | 26.9 | 27.8 |
|                | 8H   | 18.7                 | 19.5 | 19.5 | 20.3 | 21.3 | 26.2               | 27.0 | 27.0 | 27.8 | 28.7 |
|                | 12H  | 18.9                 | 19.6 | 19.7 | 20.4 | 21.4 | 27.2               | 27.9 | 28.0 | 28.8 | 29.8 |
| 8H             | 4H   | 19.0                 | 19.8 | 19.8 | 20.6 | 21.6 | 23.6               | 24.3 | 24.4 | 25.2 | 26.1 |
|                | 6H   | 19.8                 | 20.4 | 20.6 | 21.3 | 22.3 | 25.6               | 26.2 | 26.4 | 27.0 | 28.0 |
|                | 8H   | 20.1                 | 20.7 | 20.9 | 21.5 | 22.5 | 26.6               | 27.2 | 27.4 | 28.0 | 29.0 |
|                | 12H  | 20.4                 | 20.9 | 21.2 | 21.7 | 22.8 | 27.8               | 28.4 | 28.7 | 29.2 | 30.2 |
| 12H            | 4H   | 19.3                 | 20.0 | 20.1 | 20.9 | 21.8 | 23.6               | 24.3 | 24.4 | 25.1 | 26.1 |
|                | 6H   | 20.3                 | 20.8 | 21.1 | 21.7 | 22.7 | 25.6               | 26.2 | 26.4 | 27.0 | 28.0 |
|                | 8H   | 20.7                 | 21.2 | 21.5 | 22.0 | 23.1 | 26.7               | 27.2 | 27.5 | 28.1 | 29.1 |

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 514 Located At Horizontal Angle = 90, Vertical Angle = 25

# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)