



8165 E. Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

## Photometric Test Report

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : L072110301R02.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L072110301R02  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 8/20/2021  
[MANUFAC] Bartco Lighting, Inc.  
[LUMCAT] BSS501-50-35-ND-R-A-NA-NA-SN-AW  
[LUMINAIRE] Tubular series - 1-3/8" O.D. arm mount LED luminaire,  
[MORE] remote driver, asymmetric optic  
[BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120.00VAC  
[TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 2253                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 96                  |
| Total Luminaire Watts           | 23.5                |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.06                |
| Spacing Criterion (90-270)      | 1.18                |
| Spacing Criterion (Diagonal)    | 1.58                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 0.08 ft             |
| Luminous Width (90-270)         | 4.04 ft             |
| Luminous Height                 | 0.02 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 13922            | 13174             | 16704             |
| 55                  | 10563            | 12784             | 15326             |
| 65                  | 9460             | 10328             | 14171             |
| 75                  | 7849             | 9006              | 12993             |
| 85                  | 8628             | 10289             | 10782             |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 243.95  | N.A.  | 10.80  |
| 0-30    | 573.78  | N.A.  | 25.50  |
| 0-40    | 988.81  | N.A.  | 43.90  |
| 0-60    | 1660.6  | N.A.  | 73.70  |
| 0-80    | 2041.75 | N.A.  | 90.60  |
| 0-90    | 2139.01 | N.A.  | 94.90  |
| 10-90   | 2078.84 | N.A.  | 92.30  |
| 20-40   | 744.86  | N.A.  | 33.10  |
| 20-50   | 1117.5  | N.A.  | 49.60  |
| 40-70   | 892.42  | N.A.  | 39.60  |
| 60-80   | 381.15  | N.A.  | 16.90  |
| 70-80   | 160.52  | N.A.  | 7.10   |
| 80-90   | 97.26   | N.A.  | 4.30   |
| 90-110  | 85.26   | N.A.  | 3.80   |
| 90-120  | 101.98  | N.A.  | 4.50   |
| 90-130  | 109.13  | N.A.  | 4.80   |
| 90-150  | 114.01  | N.A.  | 5.10   |
| 90-180  | 114.01  | N.A.  | 5.10   |
| 110-180 | 28.75   | N.A.  | 1.30   |
| 0-180   | 2253.02 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 60.17  |
| 10-20   | 183.78 |
| 20-30   | 329.83 |
| 30-40   | 415.02 |
| 40-50   | 372.65 |
| 50-60   | 299.15 |
| 60-70   | 220.63 |
| 70-80   | 160.52 |
| 80-90   | 97.26  |
| 90-100  | 53.27  |
| 100-110 | 31.99  |
| 110-120 | 16.72  |
| 120-130 | 7.15   |
| 130-140 | 3.29   |
| 140-150 | 1.60   |
| 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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 95 |
| 1  | 107 | 102 | 97  | 93  | 103 | 99  | 95  | 91  | 94  | 90  | 87  | 89  | 86  | 84  | 84 | 82 | 80 | 78 |
| 2  | 97  | 89  | 82  | 76  | 94  | 86  | 80  | 74  | 82  | 76  | 72  | 78  | 73  | 69  | 74 | 70 | 67 | 65 |
| 3  | 89  | 78  | 70  | 63  | 86  | 76  | 68  | 62  | 72  | 66  | 60  | 69  | 63  | 59  | 66 | 61 | 57 | 55 |
| 4  | 81  | 69  | 60  | 53  | 78  | 67  | 59  | 53  | 64  | 57  | 52  | 61  | 55  | 50  | 59 | 53 | 49 | 47 |
| 5  | 75  | 62  | 53  | 46  | 72  | 60  | 52  | 46  | 58  | 50  | 45  | 55  | 49  | 44  | 53 | 47 | 43 | 40 |
| 6  | 69  | 56  | 47  | 40  | 67  | 54  | 46  | 40  | 52  | 45  | 39  | 50  | 43  | 38  | 48 | 42 | 38 | 35 |
| 7  | 64  | 50  | 42  | 35  | 62  | 49  | 41  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 44 | 38 | 33 | 31 |
| 8  | 59  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 43  | 36  | 31  | 42  | 35  | 30  | 40 | 34 | 30 | 28 |
| 9  | 55  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 38  | 32  | 27  | 37 | 31 | 27 | 25 |
| 10 | 52  | 39  | 31  | 26  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 35  | 29  | 25  | 34 | 29 | 24 | 23 |

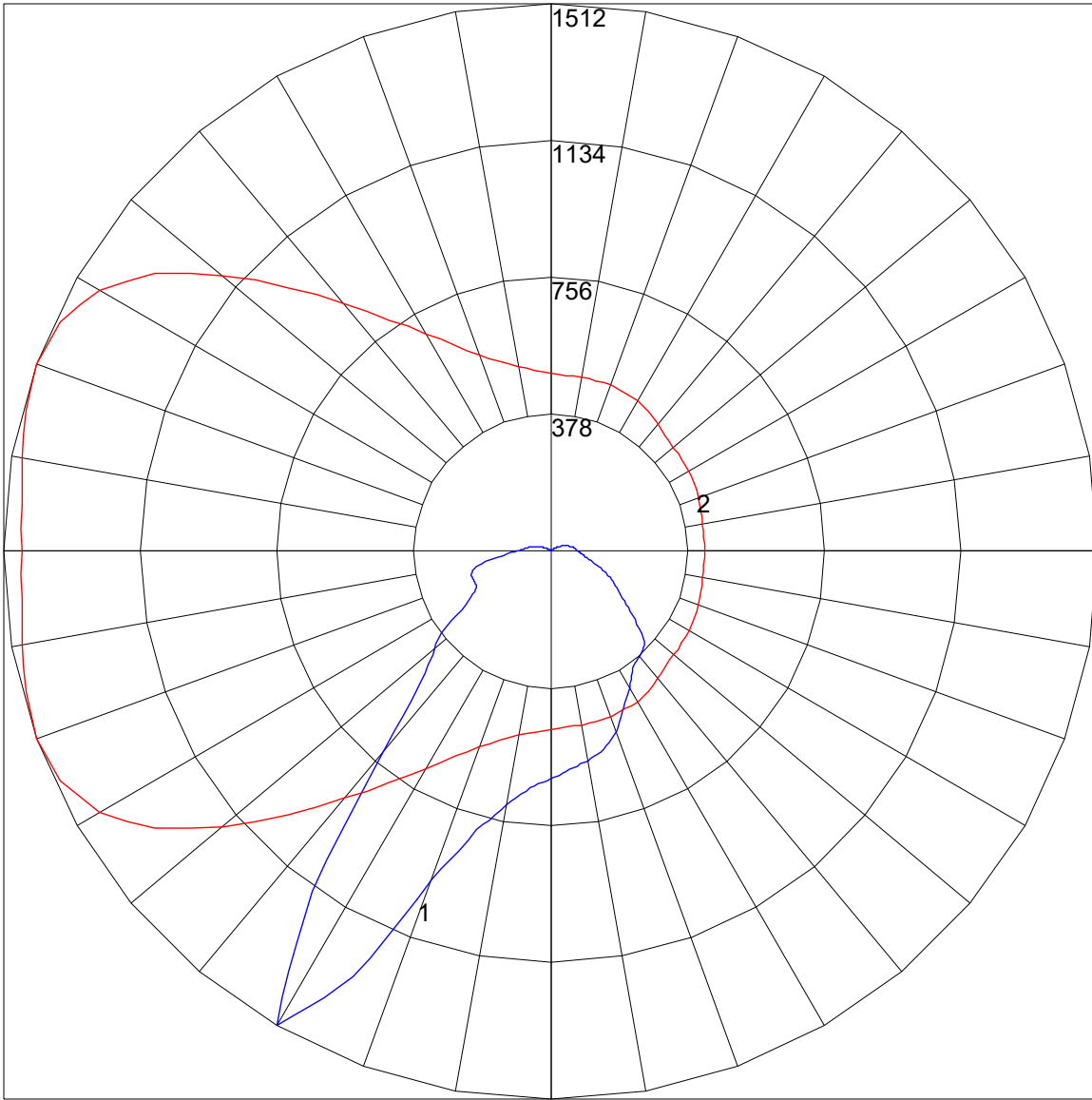
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**UGR TABLE - CORRECTED**

| 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 | 19.1                 | 20.7 | 19.6 | 21.1 | 21.5 | 21.5               | 23.1 | 22.0 | 23.5 | 23.9 |
|                | 3H   | 21.3                 | 22.7 | 21.7 | 23.1 | 23.6 | 22.7               | 24.0 | 23.1 | 24.5 | 24.9 |
|                | 4H   | 22.2                 | 23.5 | 22.7 | 24.0 | 24.5 | 23.0               | 24.3 | 23.5 | 24.8 | 25.3 |
|                | 6H   | 23.2                 | 24.4 | 23.7 | 24.9 | 25.4 | 23.2               | 24.5 | 23.7 | 24.9 | 25.4 |
|                | 8H   | 23.8                 | 24.9 | 24.3 | 25.4 | 26.0 | 23.3               | 24.5 | 23.8 | 25.0 | 25.5 |
|                | 12H  | 24.5                 | 25.6 | 25.0 | 26.1 | 26.6 | 23.3               | 24.4 | 23.8 | 24.9 | 25.5 |
| 4H             | 2H   | 19.7                 | 21.0 | 20.2 | 21.4 | 21.9 | 22.0               | 23.3 | 22.4 | 23.7 | 24.2 |
|                | 3H   | 22.1                 | 23.2 | 22.6 | 23.7 | 24.2 | 23.4               | 24.5 | 23.9 | 25.0 | 25.5 |
|                | 4H   | 23.1                 | 24.2 | 23.7 | 24.7 | 25.2 | 24.0               | 25.0 | 24.5 | 25.5 | 26.0 |
|                | 6H   | 24.3                 | 25.2 | 24.9 | 25.8 | 26.3 | 24.4               | 25.3 | 24.9 | 25.8 | 26.4 |
|                | 8H   | 25.0                 | 25.8 | 25.5 | 26.4 | 26.9 | 24.5               | 25.3 | 25.0 | 25.8 | 26.4 |
|                | 12H  | 25.8                 | 26.6 | 26.4 | 27.1 | 27.7 | 24.5               | 25.3 | 25.1 | 25.9 | 26.4 |
| 8H             | 4H   | 23.5                 | 24.3 | 24.0 | 24.8 | 25.4 | 24.4               | 25.3 | 25.0 | 25.8 | 26.4 |
|                | 6H   | 24.9                 | 25.5 | 25.4 | 26.1 | 26.7 | 25.1               | 25.8 | 25.6 | 26.3 | 26.9 |
|                | 8H   | 25.7                 | 26.3 | 26.2 | 26.9 | 27.5 | 25.3               | 25.9 | 25.9 | 26.5 | 27.1 |
|                | 12H  | 26.6                 | 27.2 | 27.2 | 27.8 | 28.4 | 25.4               | 26.0 | 26.0 | 26.6 | 27.2 |
| 12H            | 4H   | 23.5                 | 24.2 | 24.0 | 24.8 | 25.4 | 24.6               | 25.3 | 25.1 | 25.9 | 26.5 |
|                | 6H   | 24.9                 | 25.6 | 25.5 | 26.1 | 26.8 | 25.3               | 25.9 | 25.9 | 26.5 | 27.1 |
|                | 8H   | 25.8                 | 26.4 | 26.4 | 27.0 | 27.6 | 25.6               | 26.2 | 26.2 | 26.7 | 27.4 |

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 1512.354 Located At Horizontal Angle = 160, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (160 - 340) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)