

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L15-830-DIM-UNV-FW-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20683.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE]DATE] 01-10-2025

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 1 BRIDGELUX V13 LED 4"RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUM REFL w/DOMED DIFF TOP LENS(WIDE)

[MORE] ADVANCE # XI025C070V054DSM5 @ 490mA

[LUMCAT] 4DR-TL-L15-830-DIM-UNV-FW-OF-CS

[LAMPCAT] V13 BXRE-35E2000

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1077               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 78                 |
| Total Luminaire Watts           | 13.9               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.14               |
| Spacing Criterion (90-270)      | 1.14               |
| Spacing Criterion (Diagonal)    | 0.98               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.37 ft (Diameter) |
| Luminous Width (90-270)         | 0.37 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 16886            | 16886             | 16886             |
| 55                  | 1015             | 1015              | 1015              |
| 65                  | 0                | 0                 | 0                 |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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CANDELA TABULATION

|    | <u>0</u> |
|----|----------|
| 0  | 863.567  |
| 5  | 879.152  |
| 10 | 918.823  |
| 15 | 945.035  |
| 20 | 936.534  |
| 25 | 862.858  |
| 30 | 638.288  |
| 35 | 357.753  |
| 40 | 206.859  |
| 45 | 116.181  |
| 50 | 47.464   |
| 55 | 5.667    |
| 60 | 2.834    |
| 65 | 0.000    |
| 70 | 0.000    |
| 75 | 0.000    |
| 80 | 0.000    |
| 85 | 0.000    |
| 90 | 0.000    |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 350.78  | N.A.  | 32.60  |
| 0-30    | 729.48  | N.A.  | 67.70  |
| 0-40    | 970.35  | N.A.  | 90.10  |
| 0-60    | 1076.75 | N.A.  | 99.90  |
| 0-80    | 1077.44 | N.A.  | 100.00 |
| 0-90    | 1077.44 | N.A.  | 100.00 |
| 10-90   | 992.29  | N.A.  | 92.10  |
| 20-40   | 619.57  | N.A.  | 57.50  |
| 20-50   | 712.45  | N.A.  | 66.10  |
| 40-70   | 107.09  | N.A.  | 9.90   |
| 60-80   | 0.69    | N.A.  | 0.10   |
| 70-80   | 0.00    | N.A.  | 0.00   |
| 80-90   | 0.00    | N.A.  | 0.00   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1077.44 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 85.15  |
| 10-20   | 265.63 |
| 20-30   | 378.69 |
| 30-40   | 240.88 |
| 40-50   | 92.88  |
| 50-60   | 13.52  |
| 60-70   | 0.69   |
| 70-80   | 0.00   |
| 80-90   | 0.00   |
| 90-100  | 0.00   |
| 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  | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 108 | 103 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 94  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 86  |
| 3  | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 86  | 84  | 81  | 80  |
| 4  | 96  | 89  | 83  | 78  | 95  | 87  | 82  | 78  | 85  | 81  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  |
| 5  | 91  | 83  | 77  | 72  | 90  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 68  |
| 6  | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 75  | 70  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 63  |
| 7  | 82  | 72  | 66  | 61  | 80  | 71  | 66  | 61  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 59  |
| 8  | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 55  |
| 9  | 74  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |
| 10 | 70  | 60  | 54  | 50  | 69  | 59  | 54  | 50  | 58  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 48  |

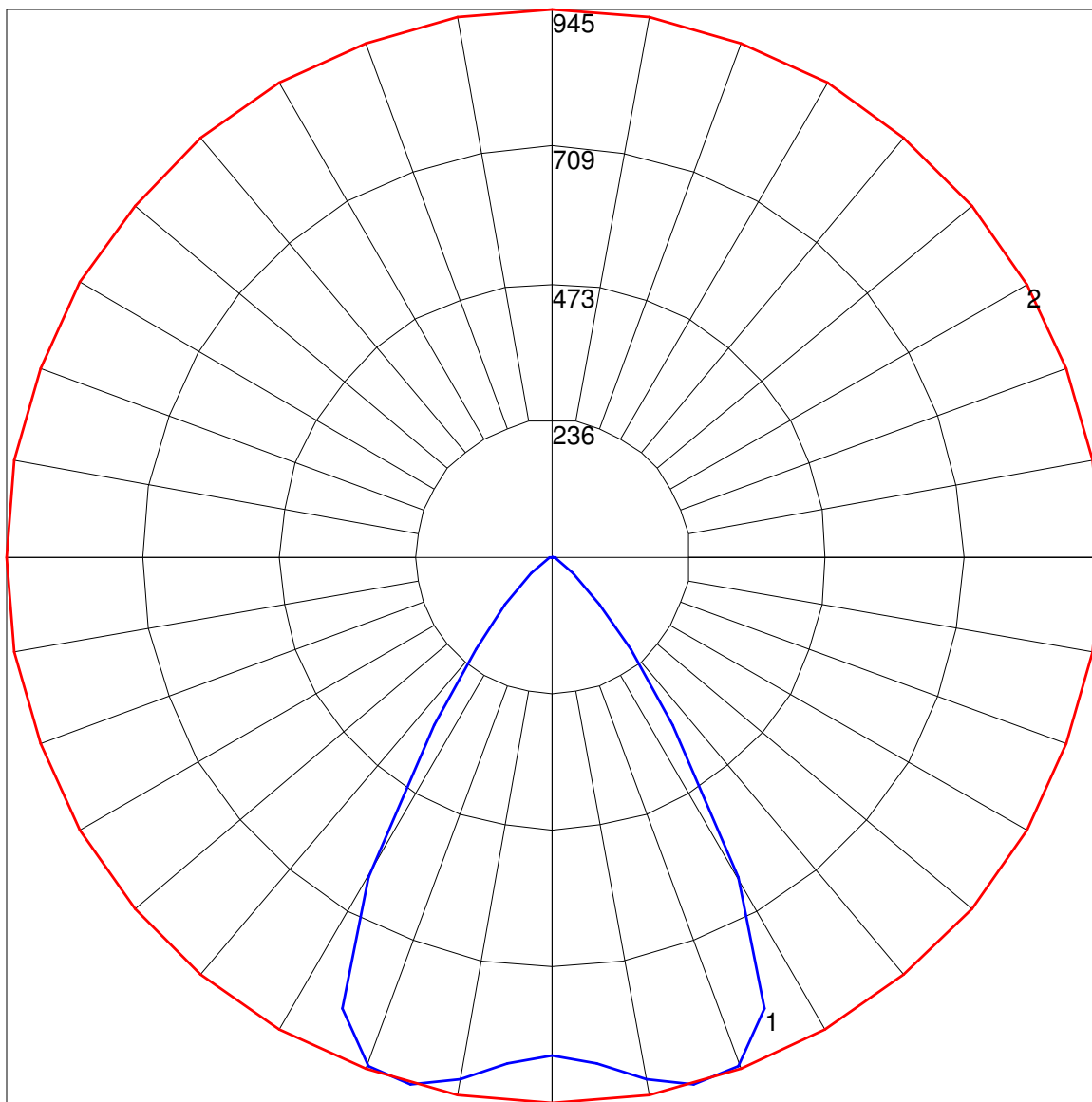
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**UGR TABLE - CORRECTED**

|                |      |                      |     |     |     |     |                    |     |     |     |     |
|----------------|------|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| 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 | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 3H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 4H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 6H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 8H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 12H  | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
| 4H             | 2H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 3H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 4H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 6H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 8H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 12H  | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
| 8H             | 4H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 6H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 8H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 12H  | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
| 12H            | 4H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 6H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |
|                | 8H   | 0.3                  | 0.3 | 0.3 | 0.3 | 0.3 | 0.3                | 0.3 | 0.3 | 0.3 | 0.3 |

Maximum UGR = 0.3

POLAR GRAPH



Maximum Candela = 945.035 Located At Horizontal Angle = 0, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)