



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L26-830-RA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 19562.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 01-23-23  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE  
 [MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS  
 [MORE] EVERLINE #D10CC55UNVTZ-C @ 76 SETPOINT  
 [LUMCAT] PTS-22-L26-830-RA-DIM-UNV  
 [LAMPCAT] M700C840D72N2A  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Office, Direct  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2607            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 122             |
| Total Luminaire Watts           | 21.3            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.24            |
| Spacing Criterion (90-270)      | 1.24            |
| Spacing Criterion (Diagonal)    | 1.34            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.92 ft         |
| Luminous Width (90-270)         | 1.93 ft         |
| 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                  | 2449             | 2540              | 2623              |
| 55                  | 2071             | 2282              | 2435              |
| 65                  | 1583             | 1980              | 2201              |
| 75                  | 1100             | 1756              | 2170              |
| 85                  | 627              | 1432              | 1790              |

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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> |
|-----------|------------|-------------|-------------|-------------|-------------|
| <b>0</b>  | 996.301    | 996.301     | 996.301     | 996.301     | 996.301     |
| <b>5</b>  | 999.651    | 993.621     | 992.281     | 988.931     | 988.931     |
| <b>10</b> | 986.251    | 980.221     | 979.551     | 976.201     | 975.531     |
| <b>15</b> | 962.801    | 956.101     | 955.431     | 954.091     | 953.421     |
| <b>20</b> | 929.301    | 923.271     | 922.601     | 923.271     | 923.271     |
| <b>25</b> | 882.400    | 876.370     | 880.390     | 883.070     | 880.390     |
| <b>30</b> | 824.779    | 822.099     | 826.120     | 830.810     | 827.460     |
| <b>35</b> | 758.449    | 757.779     | 766.489     | 769.839     | 773.189     |
| <b>40</b> | 682.068    | 682.068     | 696.808     | 702.838     | 708.198     |
| <b>45</b> | 594.967    | 594.967     | 617.077     | 631.147     | 637.177     |
| <b>50</b> | 503.176    | 503.846     | 533.326     | 552.086     | 560.796     |
| <b>55</b> | 408.035    | 415.405     | 449.575     | 469.675     | 479.726     |
| <b>60</b> | 314.904    | 329.644     | 363.814     | 385.924     | 396.645     |
| <b>65</b> | 229.813    | 249.243     | 287.433     | 311.554     | 319.594     |
| <b>70</b> | 154.772    | 178.892     | 217.082     | 241.873     | 251.253     |
| <b>75</b> | 97.821     | 121.271     | 156.112     | 180.902     | 192.962     |
| <b>80</b> | 52.931     | 73.031      | 103.851     | 121.271     | 133.332     |
| <b>85</b> | 18.760     | 32.830      | 42.880      | 42.880      | 53.601      |
| <b>90</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 364.01  | N.A.  | 14.00  |
| 0-30    | 769.21  | N.A.  | 29.50  |
| 0-40    | 1246.99 | N.A.  | 47.80  |
| 0-60    | 2118.45 | N.A.  | 81.30  |
| 0-80    | 2559.18 | N.A.  | 98.20  |
| 0-90    | 2606.87 | N.A.  | 100.00 |
| 10-90   | 2512.57 | N.A.  | 96.40  |
| 20-40   | 882.98  | N.A.  | 33.90  |
| 20-50   | 1356.74 | N.A.  | 52.00  |
| 40-70   | 1151.24 | N.A.  | 44.20  |
| 60-80   | 440.73  | N.A.  | 16.90  |
| 70-80   | 160.95  | N.A.  | 6.20   |
| 80-90   | 47.69   | N.A.  | 1.80   |
| 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   | 2606.87 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 94.30  |
| 10-20   | 269.71 |
| 20-30   | 405.19 |
| 30-40   | 477.78 |
| 40-50   | 473.77 |
| 50-60   | 397.69 |
| 60-70   | 279.78 |
| 70-80   | 160.95 |
| 80-90   | 47.69  |
| 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  | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2  | 100 | 91  | 85  | 79  | 97  | 90  | 83  | 78  | 86  | 81  | 76  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3  | 91  | 81  | 73  | 66  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |
| 4  | 83  | 72  | 63  | 57  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |
| 5  | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |
| 6  | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |
| 7  | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 35  |
| 8  | 62  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |
| 9  | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10 | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 38  | 32  | 27  | 26  |

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**UGR TABLE - CORRECTED**

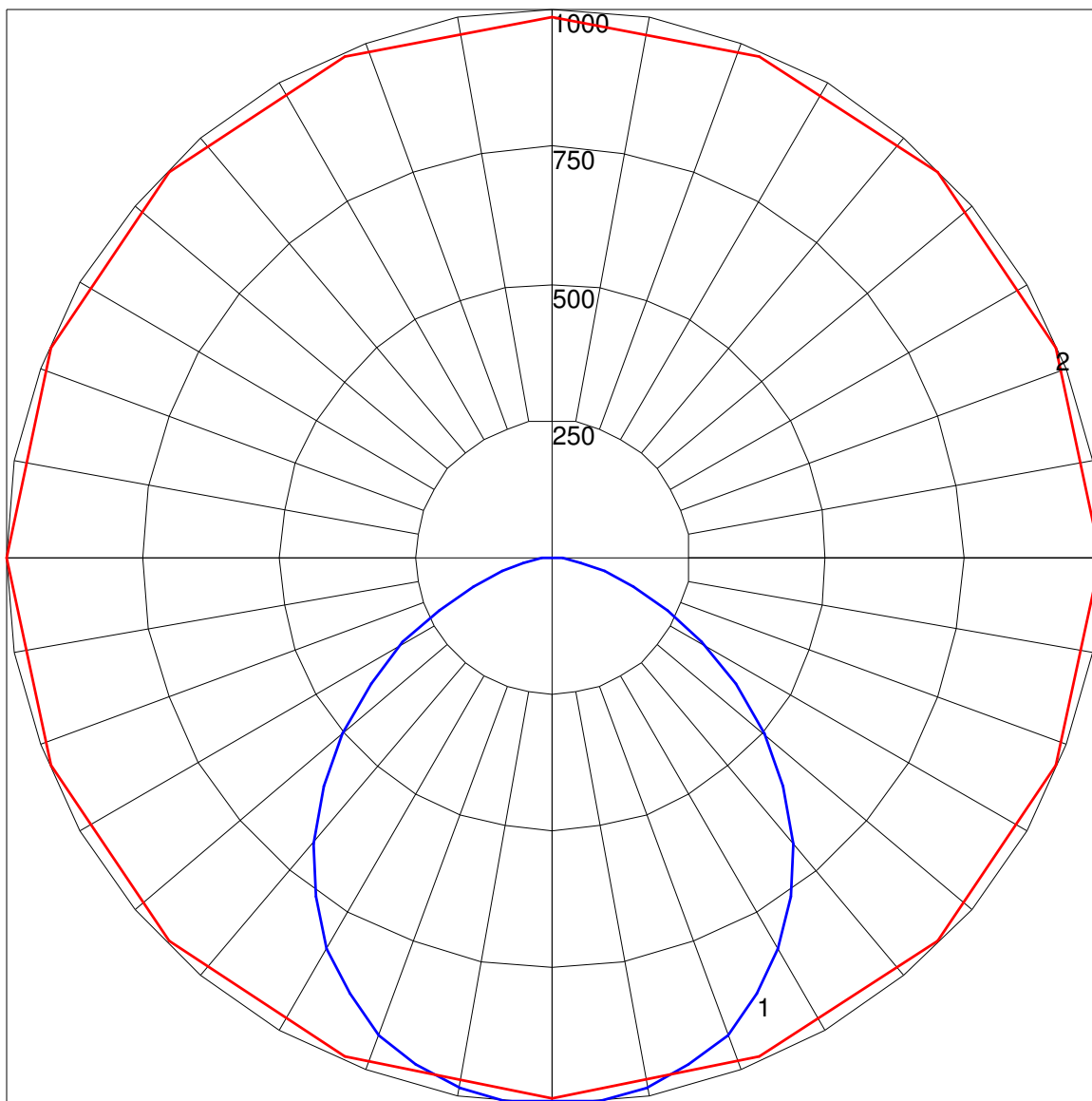
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 14.1                 | 15.7 | 14.4 | 16.0 | 16.3 | 15.1               | 16.7 | 15.5 | 17.0 | 17.3 |
|           | 3H   | 15.4                 | 16.8 | 15.7 | 17.1 | 17.5 | 16.9               | 18.4 | 17.3 | 18.7 | 19.1 |
|           | 4H   | 15.8                 | 17.1 | 16.2 | 17.5 | 17.9 | 17.7               | 19.1 | 18.1 | 19.4 | 19.8 |
|           | 6H   | 16.0                 | 17.3 | 16.5 | 17.7 | 18.1 | 18.4               | 19.7 | 18.8 | 20.0 | 20.4 |
|           | 8H   | 16.1                 | 17.3 | 16.5 | 17.7 | 18.1 | 18.6               | 19.8 | 19.1 | 20.2 | 20.6 |
|           | 12H  | 16.1                 | 17.3 | 16.6 | 17.7 | 18.1 | 18.8               | 19.9 | 19.2 | 20.3 | 20.8 |
| 4H        | 2H   | 14.8                 | 16.1 | 15.2 | 16.5 | 16.9 | 15.6               | 17.0 | 16.0 | 17.3 | 17.7 |
|           | 3H   | 16.3                 | 17.4 | 16.7 | 17.8 | 18.2 | 17.7               | 18.8 | 18.1 | 19.2 | 19.6 |
|           | 4H   | 16.9                 | 17.9 | 17.3 | 18.3 | 18.7 | 18.6               | 19.6 | 19.0 | 20.0 | 20.5 |
|           | 6H   | 17.2                 | 18.1 | 17.7 | 18.6 | 19.0 | 19.5               | 20.4 | 19.9 | 20.8 | 21.3 |
|           | 8H   | 17.3                 | 18.2 | 17.8 | 18.6 | 19.1 | 19.8               | 20.6 | 20.2 | 21.0 | 21.5 |
|           | 12H  | 17.4                 | 18.2 | 17.9 | 18.6 | 19.1 | 20.0               | 20.7 | 20.5 | 21.2 | 21.7 |
| 8H        | 4H   | 17.3                 | 18.1 | 17.8 | 18.6 | 19.1 | 18.9               | 19.7 | 19.3 | 20.1 | 20.6 |
|           | 6H   | 17.8                 | 18.5 | 18.3 | 19.0 | 19.5 | 19.8               | 20.5 | 20.3 | 21.0 | 21.5 |
|           | 8H   | 18.0                 | 18.6 | 18.5 | 19.2 | 19.6 | 20.2               | 20.9 | 20.8 | 21.4 | 21.9 |
|           | 12H  | 18.1                 | 18.7 | 18.6 | 19.2 | 19.7 | 20.5               | 21.1 | 21.0 | 21.5 | 22.1 |
| 12H       | 4H   | 17.4                 | 18.1 | 17.9 | 18.6 | 19.1 | 18.9               | 19.6 | 19.3 | 20.1 | 20.6 |
|           | 6H   | 18.0                 | 18.6 | 18.5 | 19.1 | 19.6 | 19.9               | 20.5 | 20.4 | 21.0 | 21.5 |
|           | 8H   | 18.2                 | 18.8 | 18.7 | 19.3 | 19.8 | 20.3               | 20.9 | 20.8 | 21.4 | 21.9 |

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 999.651 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)