



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L47-835-SA.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 20789.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 30-APR-2019  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 1-84 LED 22"ARRAY 2x2 LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS  
 [MORE] ADVANCE #C1042C092V045CNN1  
 [LUMCAT] PTS-22-L47-835-SA-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K CCT

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 4849            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 127             |
| Total Luminaire Watts           | 38.1            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.18            |
| Spacing Criterion (90-270)      | 1.14            |
| Spacing Criterion (Diagonal)    | 1.28            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.92 ft         |
| Luminous Width (90-270)         | 1.98 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                  | 4335             | 4271              | 4211              |
| 55                  | 3895             | 3931              | 4040              |
| 65                  | 3410             | 3719              | 4176              |
| 75                  | 2658             | 3744              | 4840              |
| 85                  | 1383             | 3485              | 4695              |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PTS-22-L47-835-SA.IES

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>  | 1921.887   | 1921.887    | 1921.887    | 1921.887    | 1921.887    |
| <b>5</b>  | 1921.887   | 1909.487    | 1901.516    | 1902.402    | 1900.631    |
| <b>10</b> | 1881.146   | 1871.404    | 1863.433    | 1859.890    | 1857.233    |
| <b>15</b> | 1814.722   | 1807.636    | 1798.780    | 1791.694    | 1789.923    |
| <b>20</b> | 1739.440   | 1727.927    | 1706.671    | 1702.243    | 1697.814    |
| <b>25</b> | 1629.618   | 1625.190    | 1600.391    | 1587.992    | 1580.021    |
| <b>30</b> | 1504.740   | 1497.655    | 1480.827    | 1461.342    | 1448.057    |
| <b>35</b> | 1363.920   | 1365.691    | 1344.435    | 1324.950    | 1316.980    |
| <b>40</b> | 1219.557   | 1223.985    | 1202.729    | 1189.444    | 1184.130    |
| <b>45</b> | 1081.393   | 1078.736    | 1065.451    | 1061.023    | 1050.395    |
| <b>50</b> | 934.373    | 937.030     | 924.631     | 935.259     | 926.403     |
| <b>55</b> | 788.239    | 796.210     | 795.325     | 817.466     | 817.466     |
| <b>60</b> | 644.762    | 650.076     | 673.103     | 703.216     | 716.501     |
| <b>65</b> | 508.370    | 521.655     | 554.424     | 597.822     | 622.620     |
| <b>70</b> | 370.207    | 393.234     | 448.145     | 503.942     | 534.054     |
| <b>75</b> | 242.671    | 283.412     | 341.866     | 406.519     | 441.945     |
| <b>80</b> | 128.421    | 174.475     | 240.014     | 303.782     | 336.552     |
| <b>85</b> | 42.512     | 70.853      | 107.165     | 131.078     | 144.363     |
| <b>90</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PTS-22-L47-835-SA.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 687.78  | N.A.  | 14.20  |
| 0-30    | 1426.06 | N.A.  | 29.40  |
| 0-40    | 2266.94 | N.A.  | 46.70  |
| 0-60    | 3810.95 | N.A.  | 78.60  |
| 0-80    | 4729.88 | N.A.  | 97.50  |
| 0-90    | 4849.36 | N.A.  | 100.00 |
| 10-90   | 4668.66 | N.A.  | 96.30  |
| 20-40   | 1579.16 | N.A.  | 32.60  |
| 20-50   | 2403.94 | N.A.  | 49.60  |
| 40-70   | 2100.17 | N.A.  | 43.30  |
| 60-80   | 918.93  | N.A.  | 18.90  |
| 70-80   | 362.77  | N.A.  | 7.50   |
| 80-90   | 119.48  | N.A.  | 2.50   |
| 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   | 4849.36 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 180.70 |
| 10-20   | 507.07 |
| 20-30   | 738.28 |
| 30-40   | 840.88 |
| 40-50   | 824.78 |
| 50-60   | 719.23 |
| 60-70   | 556.16 |
| 70-80   | 362.77 |
| 80-90   | 119.48 |
| 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   |

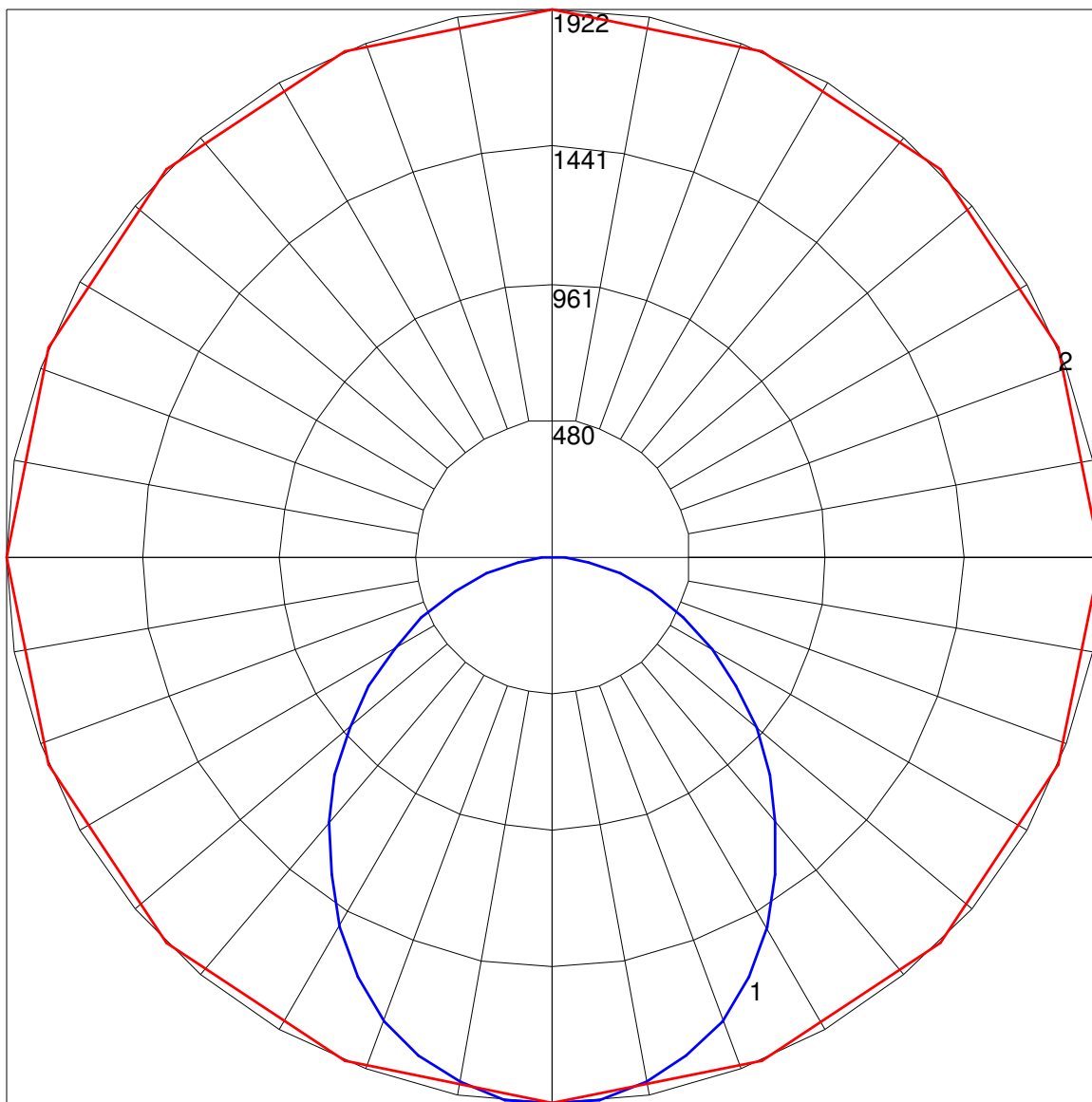
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PTS-22-L47-835-SA.IES**

**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  | 129 | 129 | 129 | 129 | 126 | 126 | 126 | 126 | 120 | 120 | 120 | 115 | 115 | 115 | 111 | 111 | 111 | 108 |
| 1  | 118 | 112 | 108 | 103 | 115 | 110 | 106 | 102 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 90  |
| 2  | 107 | 98  | 91  | 84  | 104 | 96  | 89  | 83  | 92  | 86  | 81  | 89  | 84  | 80  | 85  | 81  | 78  | 75  |
| 3  | 98  | 86  | 78  | 70  | 95  | 85  | 76  | 70  | 81  | 74  | 69  | 78  | 72  | 67  | 76  | 71  | 66  | 64  |
| 4  | 90  | 77  | 67  | 60  | 87  | 75  | 66  | 60  | 73  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 55  |
| 5  | 83  | 69  | 59  | 52  | 80  | 68  | 58  | 52  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 48  |
| 6  | 76  | 62  | 52  | 46  | 74  | 61  | 52  | 45  | 59  | 51  | 45  | 57  | 50  | 45  | 56  | 49  | 44  | 42  |
| 7  | 71  | 56  | 47  | 40  | 69  | 56  | 47  | 40  | 54  | 46  | 40  | 52  | 45  | 40  | 51  | 44  | 39  | 37  |
| 8  | 66  | 52  | 43  | 36  | 65  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 47  | 40  | 35  | 33  |
| 9  | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 33  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 37  | 32  | 30  |
| 10 | 58  | 44  | 35  | 30  | 57  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |

POLAR GRAPH



Maximum Candela = 1921.887 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)