

# Day-Brite

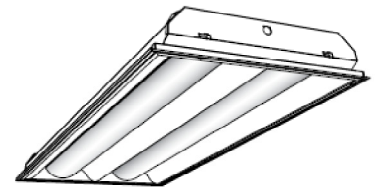
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 25445.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 25445  
[DATE] 06/28/2005  
[LUMCAT] 2ATWG232-D-1/2-EB  
[LUMINAIRE] DAY-BRITE 2X4 ATTUNE WIDE DISTRIBUTION  
[MORE] W/DIFFUSE DIFFUSER  
[LAMP] F32T8  
[BALLAST] TRIAD B232I120RH-A  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUEDATE] 6/28/2005  
[\_TEST\_LEVEL]  
[\_TIFF\_FILE\_NAME]  
[\_VERSION] fo2ies 3.0d(90)  
[OTHER] Reflection factor 0.95, Test distance = 26 ft.  
[MORE] Shielding angle: normal 90, Parallel 90

## CHARACTERISTICS

|                                 |                |
|---------------------------------|----------------|
| Lumens Per Lamp                 | 2850 (2 lamps) |
| Total Lamp Lumens               | 5700           |
| Luminaire Lumens                | 4804           |
| Total Luminaire Efficiency      | 84 %           |
| Luminaire Efficacy Rating (LER) | 72             |
| Total Luminaire Watts           | 59             |
| Ballast Factor                  | 0.88           |
| CIE Type                        | Direct         |
| Spacing Criterion (0-180)       | 1.28           |
| Spacing Criterion (90-270)      | 1.56           |
| Spacing Criterion (Diagonal)    | 1.52           |
| Basic Luminous Shape            | Rectangular    |
| Luminous Length (0-180)         | 3.83 ft        |
| Luminous Width (90-270)         | 1.83 ft        |
| Luminous Height                 | 0.00 ft        |



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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2142             | 2707              | 2982              |
| 55                  | 1969             | 2641              | 2769              |
| 65                  | 1727             | 2332              | 1905              |
| 75                  | 1407             | 1508              | 1035              |
| 85                  | 948              | 597               | 386               |

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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>0.0</b>  | 1524       | 1524        | 1524        | 1524        | 1524        |
| <b>2.5</b>  | 1540       | 1535        | 1527        | 1516        | 1508        |
| <b>5.0</b>  | 1535       | 1532        | 1529        | 1524        | 1518        |
| <b>7.5</b>  | 1527       | 1526        | 1531        | 1535        | 1533        |
| <b>10.0</b> | 1515       | 1519        | 1535        | 1548        | 1551        |
| <b>12.5</b> | 1498       | 1509        | 1537        | 1563        | 1570        |
| <b>15.0</b> | 1480       | 1496        | 1540        | 1577        | 1590        |
| <b>17.5</b> | 1457       | 1481        | 1541        | 1591        | 1607        |
| <b>20.0</b> | 1433       | 1463        | 1538        | 1599        | 1621        |
| <b>22.5</b> | 1407       | 1444        | 1534        | 1606        | 1631        |
| <b>25.0</b> | 1372       | 1418        | 1522        | 1604        | 1633        |
| <b>27.5</b> | 1338       | 1391        | 1508        | 1597        | 1629        |
| <b>30.0</b> | 1300       | 1361        | 1492        | 1585        | 1624        |
| <b>32.5</b> | 1258       | 1327        | 1464        | 1565        | 1597        |
| <b>35.0</b> | 1210       | 1284        | 1433        | 1536        | 1568        |
| <b>37.5</b> | 1157       | 1238        | 1397        | 1501        | 1532        |
| <b>40.0</b> | 1102       | 1188        | 1352        | 1456        | 1487        |
| <b>42.5</b> | 1048       | 1136        | 1303        | 1407        | 1437        |
| <b>45.0</b> | 990        | 1080        | 1251        | 1349        | 1378        |
| <b>47.5</b> | 929        | 1022        | 1192        | 1288        | 1313        |
| <b>50.0</b> | 865        | 956         | 1127        | 1224        | 1236        |
| <b>52.5</b> | 801        | 892         | 1061        | 1144        | 1144        |
| <b>55.0</b> | 738        | 827         | 990         | 1053        | 1038        |
| <b>57.5</b> | 674        | 761         | 919         | 940         | 912         |
| <b>60.0</b> | 606        | 692         | 838         | 820         | 779         |
| <b>62.5</b> | 540        | 621         | 748         | 695         | 648         |
| <b>65.0</b> | 477        | 556         | 644         | 570         | 526         |
| <b>67.5</b> | 414        | 491         | 539         | 459         | 414         |
| <b>70.0</b> | 352        | 426         | 438         | 353         | 319         |
| <b>72.5</b> | 294        | 363         | 343         | 267         | 236         |
| <b>75.0</b> | 238        | 297         | 255         | 195         | 175         |
| <b>77.5</b> | 186        | 229         | 183         | 138         | 123         |
| <b>80.0</b> | 138        | 165         | 122         | 92          | 83          |
| <b>82.5</b> | 93         | 104         | 72          | 54          | 50          |
| <b>85.0</b> | 54         | 53          | 34          | 24          | 22          |
| <b>87.5</b> | 24         | 16          | 7           | 6           | 5           |
| <b>90.0</b> | 4          | 1           | 1           | 0           | 0           |

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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens  | %Lamp | %Fixt  |
|--------|---------|-------|--------|
| 0-30   | 1278.88 | 22.40 | 26.60  |
| 0-40   | 2160.47 | 37.90 | 45.00  |
| 0-60   | 3931.94 | 69.00 | 81.80  |
| 0-90   | 4804.29 | 84.30 | 100.00 |
| 90-120 | 0.00    | 0.00  | 0.00   |
| 90-130 | 0.00    | 0.00  | 0.00   |
| 90-150 | 0.00    | 0.00  | 0.00   |
| 90-180 | 0.00    | 0.00  | 0.00   |
| 0-180  | 4804.29 | 84.30 | 100.00 |

Total Luminaire Efficiency = 84.30%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 146.02 |
| 10-20   | 435.23 |
| 20-30   | 697.62 |
| 30-40   | 881.59 |
| 40-50   | 936.53 |
| 50-60   | 834.94 |
| 60-70   | 564.05 |
| 70-80   | 257.96 |
| 80-90   | 50.34  |
| 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   |

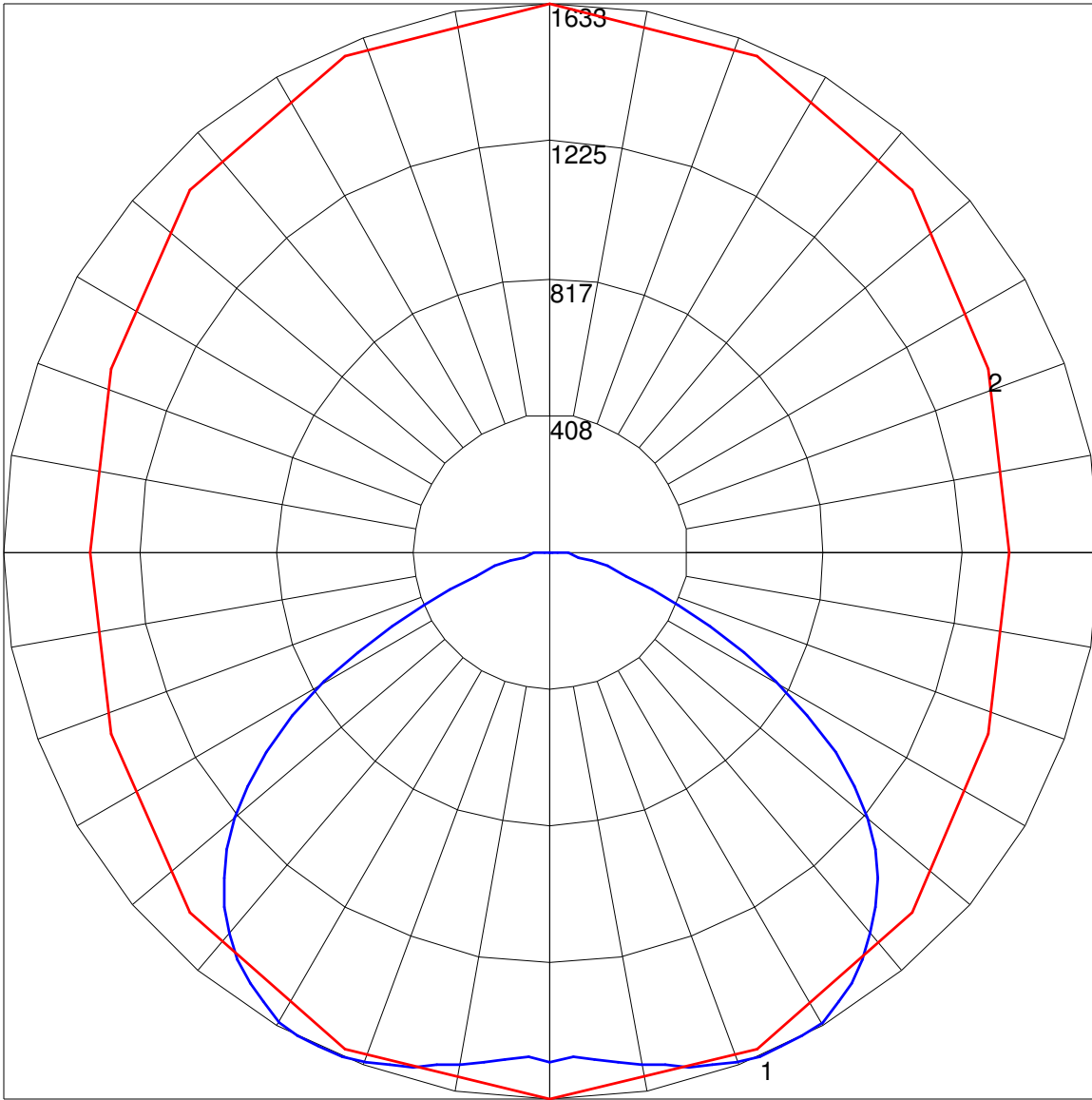
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 100 | 100 | 100 | 100 | 100 | 98 | 98 | 98 | 98 | 94 | 94 | 94 | 90 | 90 | 90 | 86 | 86 | 86 | 84 |
| 1  | 92  | 88  | 85  | 82  | 82  | 90 | 86 | 83 | 80 | 83 | 80 | 78 | 79 | 77 | 75 | 76 | 75 | 73 | 71 |
| 2  | 84  | 77  | 71  | 67  | 67  | 82 | 75 | 70 | 66 | 73 | 68 | 64 | 70 | 66 | 63 | 67 | 64 | 62 | 60 |
| 3  | 76  | 68  | 61  | 56  | 56  | 74 | 66 | 60 | 55 | 64 | 58 | 54 | 62 | 57 | 53 | 59 | 56 | 52 | 50 |
| 4  | 70  | 60  | 53  | 47  | 47  | 68 | 59 | 52 | 47 | 57 | 51 | 46 | 55 | 50 | 45 | 53 | 48 | 45 | 43 |
| 5  | 64  | 53  | 46  | 40  | 40  | 62 | 52 | 45 | 40 | 51 | 44 | 40 | 49 | 43 | 39 | 47 | 43 | 39 | 37 |
| 6  | 59  | 48  | 40  | 35  | 35  | 58 | 47 | 40 | 35 | 46 | 39 | 35 | 44 | 39 | 34 | 43 | 38 | 34 | 32 |
| 7  | 55  | 43  | 36  | 31  | 31  | 53 | 43 | 36 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | 28 |
| 8  | 51  | 39  | 32  | 27  | 27  | 50 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 36 | 31 | 27 | 25 |
| 9  | 48  | 36  | 29  | 25  | 25  | 46 | 36 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 24 | 33 | 28 | 24 | 22 |
| 10 | 44  | 33  | 27  | 22  | 22  | 43 | 33 | 26 | 22 | 32 | 26 | 22 | 31 | 26 | 22 | 30 | 25 | 22 | 20 |

POLAR GRAPH



Maximum Candela = 1633 Located At Horizontal Angle = 90, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)