

# Day-Brite

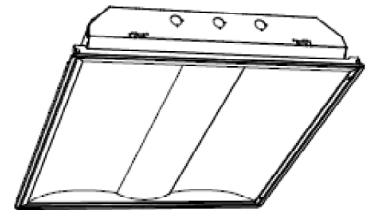
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 27067.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 27067  
[DATE] 10/30/2007  
[LUMCAT] 2STG214-D-1/2-EB  
[LUMINAIRE] DAY-BRITE 2X2 SOFTRACE W/DIFFUSE DIFFUSER  
[LAMP] F14T5  
[BALLAST] TRIAD B228PUNV-C  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUEDATE] 10/31/2007  
[\_TEST\_LEVEL]  
[\_TIFF\_FILE\_NAME]  
[\_VERSION] fo2ies 3.0d(90)  
[OTHER] Reflection factor 0.92, Test distance = 26 ft.  
[MORE] Shielding angle: normal 90, Parallel 90

## CHARACTERISTICS

|                                 |                |
|---------------------------------|----------------|
| Lumens Per Lamp                 | 1200 (2 lamps) |
| Total Lamp Lumens               | 2400           |
| Luminaire Lumens                | 2135           |
| Total Luminaire Efficiency      | 89 %           |
| Luminaire Efficacy Rating (LER) | 65             |
| Total Luminaire Watts           | 33             |
| Ballast Factor                  | 1.00           |
| CIE Type                        | Direct         |
| Spacing Criterion (0-180)       | 1.22           |
| Spacing Criterion (90-270)      | 1.24           |
| Spacing Criterion (Diagonal)    | 1.34           |
| Basic Luminous Shape            | Rectangular    |
| Luminous Length (0-180)         | 2.00 ft        |
| Luminous Width (90-270)         | 1.81 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                  | 1951             | 2047              | 2278              |
| 55                  | 1712             | 1991              | 2379              |
| 65                  | 1418             | 1853              | 2302              |
| 75                  | 1100             | 1570              | 2029              |
| 85                  | 749              | 1021              | 987               |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 772        | 772         | 772         | 772         | 772         |
| 2.5  | 767        | 767         | 770         | 773         | 775         |
| 5.0  | 764        | 765         | 767         | 770         | 772         |
| 7.5  | 760        | 760         | 762         | 764         | 767         |
| 10.0 | 753        | 753         | 755         | 757         | 760         |
| 12.5 | 744        | 746         | 747         | 749         | 750         |
| 15.0 | 734        | 736         | 737         | 738         | 739         |
| 17.5 | 723        | 723         | 725         | 726         | 725         |
| 20.0 | 708        | 709         | 710         | 711         | 712         |
| 22.5 | 692        | 693         | 694         | 695         | 696         |
| 25.0 | 673        | 675         | 675         | 677         | 679         |
| 27.5 | 657        | 658         | 658         | 661         | 663         |
| 30.0 | 632        | 633         | 635         | 638         | 640         |
| 32.5 | 606        | 609         | 612         | 617         | 622         |
| 35.0 | 580        | 584         | 588         | 598         | 605         |
| 37.5 | 553        | 557         | 564         | 579         | 590         |
| 40.0 | 528        | 527         | 540         | 561         | 574         |
| 42.5 | 495        | 497         | 514         | 543         | 559         |
| 45.0 | 465        | 467         | 488         | 525         | 543         |
| 47.5 | 431        | 439         | 464         | 506         | 527         |
| 50.0 | 397        | 405         | 439         | 486         | 507         |
| 52.5 | 365        | 373         | 413         | 465         | 486         |
| 55.0 | 331        | 341         | 385         | 439         | 460         |
| 57.5 | 298        | 310         | 356         | 411         | 432         |
| 60.0 | 266        | 278         | 327         | 381         | 402         |
| 62.5 | 233        | 245         | 295         | 347         | 368         |
| 65.0 | 202        | 216         | 264         | 312         | 328         |
| 67.5 | 174        | 188         | 231         | 275         | 291         |
| 70.0 | 146        | 158         | 200         | 239         | 254         |
| 72.5 | 121        | 132         | 169         | 203         | 216         |
| 75.0 | 96         | 106         | 137         | 167         | 177         |
| 77.5 | 75         | 83          | 110         | 132         | 138         |
| 80.0 | 56         | 63          | 83          | 94          | 96          |
| 82.5 | 37         | 43          | 55          | 55          | 55          |
| 85.0 | 22         | 24          | 30          | 30          | 29          |
| 87.5 | 9          | 10          | 11          | 10          | 10          |
| 90.0 | 3          | 1           | 0           | 0           | 0           |

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**ZONAL LUMEN SUMMARY**

| Zone   | Lumens  | %Lamp | %Fixt  |
|--------|---------|-------|--------|
| 0-30   | 592.31  | 24.70 | 27.70  |
| 0-40   | 962.10  | 40.10 | 45.10  |
| 0-60   | 1693.4  | 70.60 | 79.30  |
| 0-90   | 2134.98 | 89.00 | 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  | 2134.98 | 89.00 | 100.00 |

Total Luminaire Efficiency = 89.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 72.87  |
| 10-20   | 207.79 |
| 20-30   | 311.65 |
| 30-40   | 369.78 |
| 40-50   | 382.97 |
| 50-60   | 348.34 |
| 60-70   | 261.57 |
| 70-80   | 145.46 |
| 80-90   | 34.55  |
| 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   |

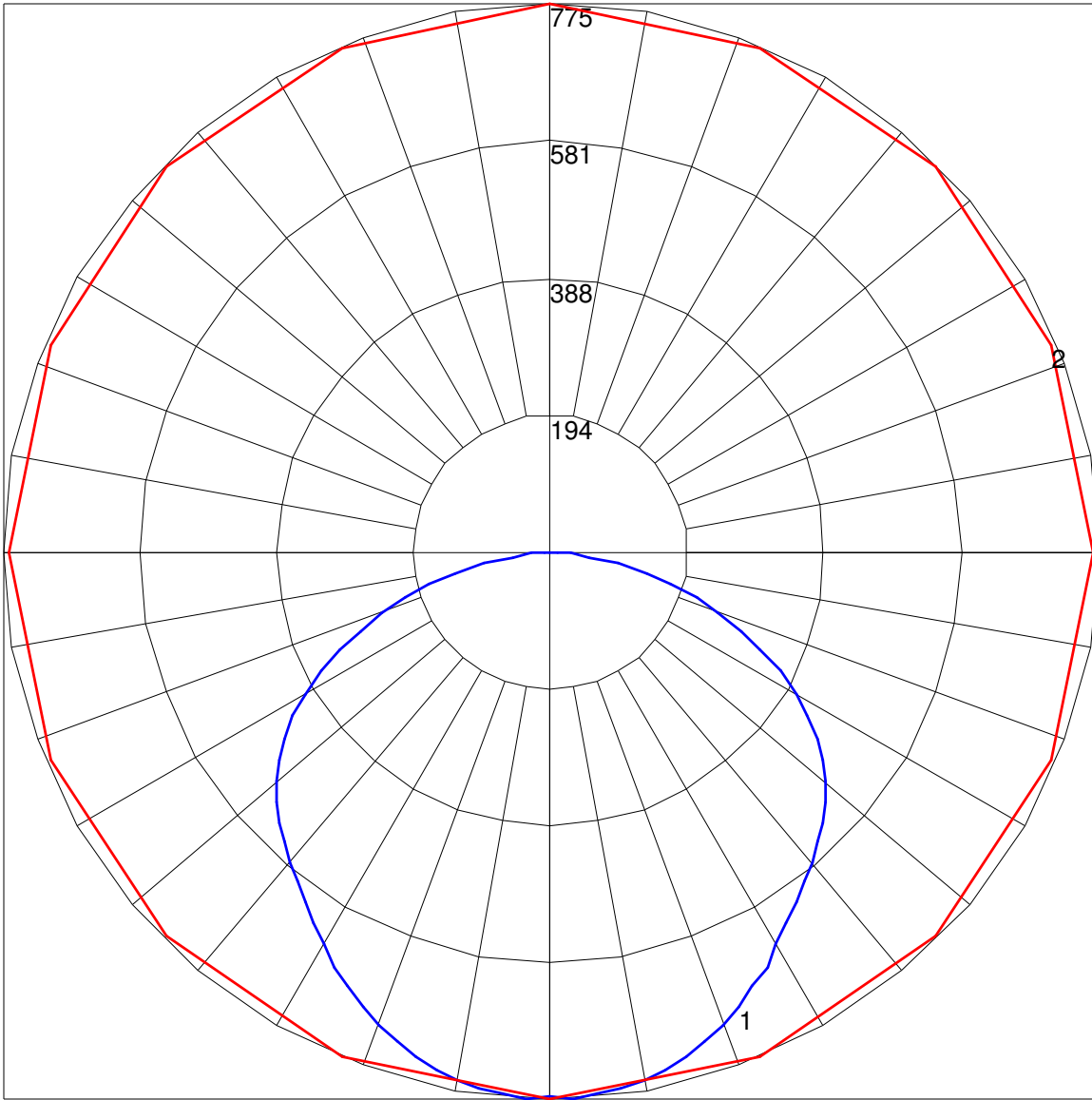
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 106 | 106 | 106 | 106 | 103 | 103 | 103 | 103 | 99 | 99 | 99 | 95 | 95 | 95 | 91 | 91 | 91 | 89 |
| 1  | 97  | 93  | 89  | 85  | 94  | 91  | 87  | 84  | 87 | 84 | 81 | 83 | 81 | 79 | 80 | 78 | 77 | 75 |
| 2  | 88  | 81  | 75  | 70  | 86  | 79  | 73  | 69  | 76 | 71 | 67 | 73 | 69 | 66 | 70 | 67 | 64 | 62 |
| 3  | 80  | 71  | 64  | 58  | 78  | 69  | 63  | 57  | 67 | 61 | 56 | 64 | 59 | 55 | 62 | 58 | 54 | 52 |
| 4  | 73  | 63  | 55  | 49  | 71  | 62  | 54  | 49  | 59 | 53 | 48 | 57 | 52 | 47 | 55 | 51 | 47 | 45 |
| 5  | 68  | 56  | 48  | 42  | 66  | 55  | 48  | 42  | 53 | 47 | 41 | 51 | 46 | 41 | 50 | 45 | 41 | 39 |
| 6  | 62  | 50  | 43  | 37  | 61  | 50  | 42  | 37  | 48 | 41 | 36 | 47 | 41 | 36 | 45 | 40 | 36 | 34 |
| 7  | 58  | 46  | 38  | 32  | 56  | 45  | 38  | 32  | 44 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 |
| 8  | 54  | 42  | 34  | 29  | 52  | 41  | 34  | 29  | 40 | 33 | 29 | 39 | 33 | 29 | 38 | 32 | 28 | 27 |
| 9  | 50  | 38  | 31  | 26  | 49  | 38  | 31  | 26  | 37 | 30 | 26 | 36 | 30 | 26 | 35 | 30 | 26 | 24 |
| 10 | 47  | 35  | 28  | 24  | 46  | 35  | 28  | 24  | 34 | 28 | 23 | 33 | 27 | 23 | 32 | 27 | 23 | 22 |

POLAR GRAPH



Maximum Candela = 775 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)