

# Day-Brite

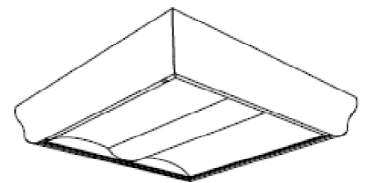
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 29980D2.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 29980  
[TESTDATE] 11/09/2011  
[LUMCAT] 2SST24L840-2-PMW  
[LUMINAIRE] PHILIPS DAY-BRITE 2X2 SURFACE SOFTRACE LED  
[MORE] W/ PERFORATED DOOR  
[LAMP] 30WLED  
[BALLAST] LED DRIVER  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUE DATE] 11/10/2011  
[\_TEST\_LEVEL] Experimental  
[\_TIFF\_FILE\_NAME]  
[\_VERSION] fo2ies 3.0e (2011-02)(90)  
[\_LM79] Absolute Photometry tested in accordance with IES procedure LM79-08  
[\_TEST\_DISTANCE] 30 ft.  
[\_SHIELDING\_ANGLE] Normal 90, Parallel 90  
[OTHER] TOTAL LUMEN OUTPUT = 2138 LUMENS

## CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2138            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 71              |
| Total Luminaire Watts           | 30              |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.22            |
| Spacing Criterion (90-270)      | 1.34            |
| Spacing Criterion (Diagonal)    | 1.38            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.88 ft         |
| Luminous Width (90-270)         | 1.86 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                  | 1992             | 2240              | 2514              |
| 55                  | 1754             | 2070              | 2370              |
| 65                  | 1463             | 1834              | 2089              |
| 75                  | 1153             | 1497              | 1616              |
| 85                  | 706              | 882               | 918               |

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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>  | 777        | 777         | 777         | 777         | 777         |
| <b>2.5</b>  | 780        | 775         | 773         | 774         | 776         |
| <b>5.0</b>  | 777        | 774         | 772         | 772         | 775         |
| <b>7.5</b>  | 771        | 767         | 768         | 770         | 772         |
| <b>10.0</b> | 761        | 759         | 761         | 766         | 769         |
| <b>12.5</b> | 751        | 750         | 754         | 759         | 765         |
| <b>15.0</b> | 739        | 738         | 745         | 752         | 759         |
| <b>17.5</b> | 726        | 726         | 734         | 743         | 752         |
| <b>20.0</b> | 708        | 712         | 723         | 735         | 745         |
| <b>22.5</b> | 692        | 694         | 708         | 724         | 737         |
| <b>25.0</b> | 673        | 676         | 694         | 713         | 727         |
| <b>27.5</b> | 650        | 658         | 677         | 701         | 714         |
| <b>30.0</b> | 628        | 634         | 658         | 686         | 701         |
| <b>32.5</b> | 605        | 611         | 639         | 669         | 687         |
| <b>35.0</b> | 579        | 587         | 617         | 652         | 669         |
| <b>37.5</b> | 550        | 559         | 594         | 630         | 653         |
| <b>40.0</b> | 521        | 533         | 570         | 608         | 632         |
| <b>42.5</b> | 491        | 505         | 544         | 584         | 604         |
| <b>45.0</b> | 458        | 473         | 515         | 555         | 578         |
| <b>47.5</b> | 428        | 444         | 483         | 526         | 547         |
| <b>50.0</b> | 394        | 412         | 455         | 493         | 514         |
| <b>52.5</b> | 359        | 380         | 419         | 457         | 481         |
| <b>55.0</b> | 327        | 344         | 386         | 424         | 442         |
| <b>57.5</b> | 293        | 315         | 354         | 388         | 406         |
| <b>60.0</b> | 261        | 281         | 321         | 353         | 367         |
| <b>62.5</b> | 231        | 246         | 283         | 314         | 329         |
| <b>65.0</b> | 201        | 219         | 252         | 275         | 287         |
| <b>67.5</b> | 172        | 186         | 216         | 239         | 250         |
| <b>70.0</b> | 146        | 159         | 186         | 204         | 214         |
| <b>72.5</b> | 121        | 133         | 156         | 170         | 175         |
| <b>75.0</b> | 97         | 107         | 126         | 134         | 136         |
| <b>77.5</b> | 76         | 83          | 95          | 99          | 98          |
| <b>80.0</b> | 55         | 62          | 66          | 67          | 71          |
| <b>82.5</b> | 38         | 38          | 41          | 42          | 44          |
| <b>85.0</b> | 20         | 22          | 25          | 24          | 26          |
| <b>87.5</b> | 11         | 12          | 12          | 11          | 12          |
| <b>90.0</b> | 9          | 11          | 11          | 9           | 9           |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 284.12  | N.A.  | 13.30  |
| 0-30    | 604.70  | N.A.  | 28.30  |
| 0-40    | 992.09  | N.A.  | 46.40  |
| 0-60    | 1733.7  | N.A.  | 81.10  |
| 0-80    | 2107.11 | N.A.  | 98.60  |
| 0-90    | 2137.82 | N.A.  | 100.00 |
| 10-90   | 2064.34 | N.A.  | 96.60  |
| 20-40   | 707.97  | N.A.  | 33.10  |
| 20-50   | 1105.2  | N.A.  | 51.70  |
| 40-70   | 986.68  | N.A.  | 46.20  |
| 60-80   | 373.41  | N.A.  | 17.50  |
| 70-80   | 128.34  | N.A.  | 6.00   |
| 80-90   | 30.71   | N.A.  | 1.40   |
| 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   | 2137.82 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 73.48  |
| 10-20   | 210.63 |
| 20-30   | 320.58 |
| 30-40   | 387.39 |
| 40-50   | 397.23 |
| 50-60   | 344.38 |
| 60-70   | 245.07 |
| 70-80   | 128.34 |
| 80-90   | 30.71  |
| 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   |

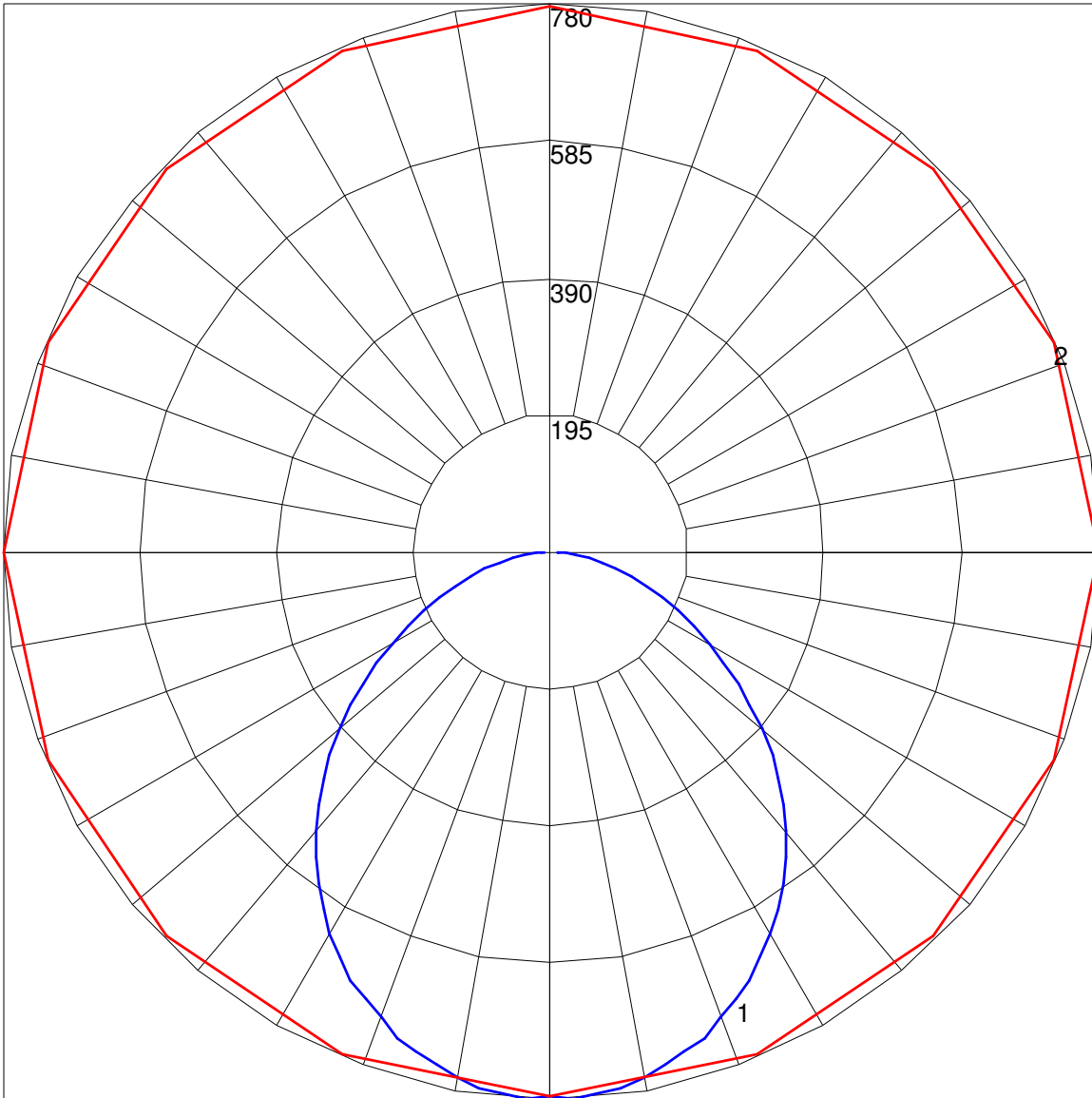
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 109 | 104 | 100 | 97  |     | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 92  | 89  | 91  | 88  | 87  | 85  |     |
| 2  | 99  | 91  | 85  | 79  |     | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 75  | 80  | 76  | 73  | 71  |     |
| 3  | 91  | 80  | 72  | 66  |     | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |     |
| 4  | 83  | 71  | 63  | 56  |     | 81  | 70  | 62  | 56  | 68  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |     |
| 5  | 77  | 64  | 55  | 48  |     | 74  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 44  |     |
| 6  | 71  | 57  | 49  | 42  |     | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |     |
| 7  | 66  | 52  | 43  | 37  |     | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 36  | 34  |     |
| 8  | 61  | 48  | 39  | 33  |     | 59  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |     |
| 9  | 57  | 44  | 35  | 30  |     | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  |     |
| 10 | 53  | 40  | 32  | 27  |     | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |     |

POLAR GRAPH



Maximum Candela = 780 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)