

# Day-Brite

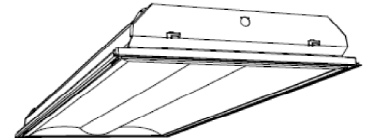
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 27100D1.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 27100  
[DATE] 11/12/2007  
[LUMCAT] 2STGA228-D-1/2-EB  
[LUMINAIRE] DAY-BRITE 2X4 SOFTRACE AIR W/DIFFUSE DIFFUSER  
[LAMP] F28T5  
[BALLAST] TRIAD B228PUNV95-D-EB95  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUE DATE] 11/12/2007  
[\_TEST\_LEVEL]  
[\_TIFF\_FILE\_NAME]  
[\_VERSION] fo2ies 3.0d(90)  
[OTHER] Reflection factor 0.93, Test distance = 26 ft.  
[MORE] Shielding angle: normal 90, Parallel 90

## CHARACTERISTICS

Lumens Per Lamp	2600 (2 lamps)
Total Lamp Lumens	5200
Luminaire Lumens	4944
Total Luminaire Efficiency	95 %
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	60
Ballast Factor	0.95
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.81 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2293	2389	2595
55	2046	2335	2705
65	1737	2190	2594
75	1353	1920	2235
85	919	1259	1106

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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>	1759	1759	1759	1759	1759
<b>2.5</b>	1762	1760	1756	1749	1749
<b>5.0</b>	1757	1753	1749	1741	1745
<b>7.5</b>	1747	1745	1739	1730	1734
<b>10.0</b>	1732	1731	1723	1719	1718
<b>12.5</b>	1714	1712	1705	1699	1697
<b>15.0</b>	1690	1688	1682	1673	1675
<b>17.5</b>	1666	1658	1658	1647	1645
<b>20.0</b>	1636	1630	1626	1611	1608
<b>22.5</b>	1603	1600	1588	1577	1573
<b>25.0</b>	1559	1557	1549	1538	1534
<b>27.5</b>	1516	1520	1508	1491	1493
<b>30.0</b>	1466	1462	1456	1449	1451
<b>32.5</b>	1416	1412	1408	1406	1412
<b>35.0</b>	1358	1356	1354	1363	1374
<b>37.5</b>	1296	1301	1302	1324	1342
<b>40.0</b>	1232	1238	1249	1283	1306
<b>42.5</b>	1164	1169	1193	1242	1271
<b>45.0</b>	1093	1102	1139	1202	1237
<b>47.5</b>	1018	1032	1082	1159	1198
<b>50.0</b>	941	962	1024	1113	1154
<b>52.5</b>	870	889	965	1061	1106
<b>55.0</b>	791	812	903	1005	1046
<b>57.5</b>	716	740	838	941	983
<b>60.0</b>	640	670	768	871	903
<b>62.5</b>	566	596	696	794	823
<b>65.0</b>	495	522	624	713	739
<b>67.5</b>	426	456	551	625	651
<b>70.0</b>	356	390	476	543	565
<b>72.5</b>	295	326	402	460	478
<b>75.0</b>	236	266	335	381	390
<b>77.5</b>	183	209	269	296	302
<b>80.0</b>	136	156	203	213	203
<b>82.5</b>	90	111	135	128	121
<b>85.0</b>	54	68	74	69	65
<b>87.5</b>	24	29	27	24	22
<b>90.0</b>	5	2	1	2	2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	1353.55	26.00	27.40
0-40	2205.39	42.40	44.60
0-60	3905.9	75.10	79.00
0-90	4943.95	95.10	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	4943.95	95.10	100.00

Total Luminaire Efficiency = 95.10%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	166.16
10-20	474.38
20-30	713.01
30-40	851.83
40-50	888.43
50-60	812.08
60-70	612.39
70-80	342.17
80-90	83.49
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

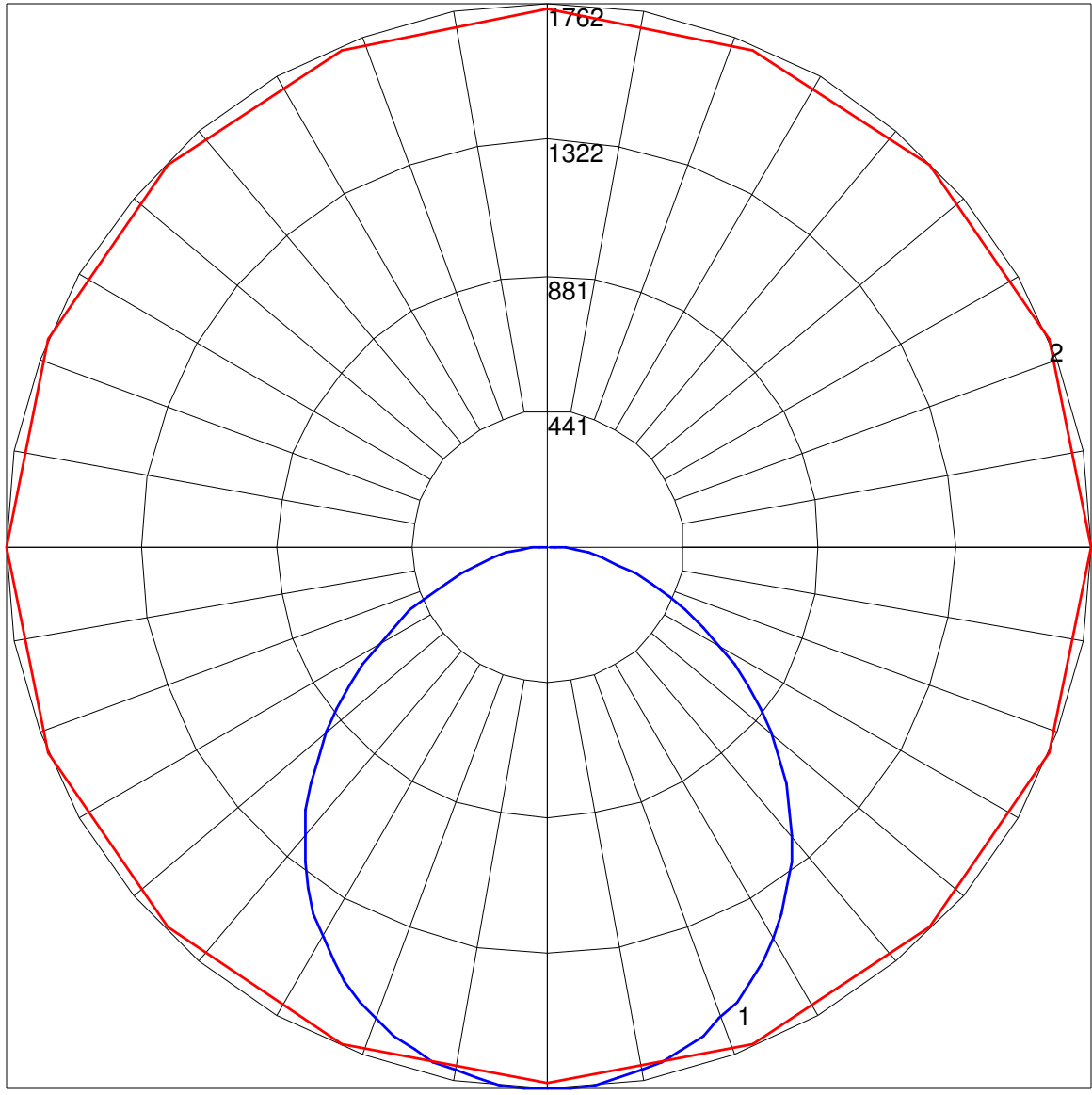
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	113	113	113	111	111	111	111	106	106	106	101	101	101	97	97	97	95
1	103	99	95	91	101	97	93	90	93	90	87	89	86	84	86	84	82	80
2	94	86	80	74	91	84	78	73	81	76	72	78	74	70	75	71	68	66
3	86	76	68	62	83	74	67	61	71	65	60	69	63	59	66	62	58	56
4	78	67	58	52	76	66	58	52	63	56	51	61	55	50	59	54	50	47
5	72	60	51	45	70	59	51	45	57	49	44	55	48	44	53	47	43	41
6	66	54	45	39	65	53	45	39	51	44	39	49	43	38	48	42	38	36
7	62	49	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
8	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
9	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25
10	50	38	30	25	49	37	30	25	36	29	25	35	29	25	34	29	25	23

POLAR GRAPH



Maximum Candela = 1762 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.)