

# Day-Brite

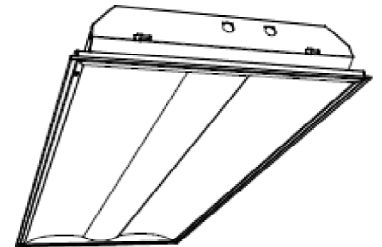
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 27527.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 27527  
[DATE] 06/20/2008  
[LUMCAT] 2STG254HO-PMW-1/2-EB  
[LUMINAIRE] DAY-BRITE 2X4 SOFTRACE W/PERFORATED BASKET  
[LAMP] F54T5HO  
[BALLAST] TRIAD B254PUNV-D  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUEDATE] 6/23/2008  
[\_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	4400 (2 lamps)
Total Lamp Lumens	8800
Luminaire Lumens	7188
Total Luminaire Efficiency	82 %
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	117
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.50
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	3092	3688	4139
55	2819	3701	4259
65	2422	3457	4075
75	1926	2911	3456
85	1310	1379	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>	2264	2264	2264	2264	2264
<b>2.5</b>	2264	2277	2275	2255	2235
<b>5.0</b>	2255	2272	2270	2252	2233
<b>7.5</b>	2243	2261	2261	2246	2228
<b>10.0</b>	2225	2244	2250	2238	2222
<b>12.5</b>	2199	2221	2229	2225	2212
<b>15.0</b>	2178	2198	2214	2219	2204
<b>17.5</b>	2144	2166	2190	2201	2196
<b>20.0</b>	2111	2133	2166	2186	2185
<b>22.5</b>	2071	2095	2140	2171	2175
<b>25.0</b>	2022	2057	2108	2157	2168
<b>27.5</b>	1969	2009	2076	2141	2157
<b>30.0</b>	1909	1959	2042	2119	2148
<b>32.5</b>	1855	1902	2007	2103	2136
<b>35.0</b>	1788	1842	1965	2078	2119
<b>37.5</b>	1704	1774	1917	2046	2090
<b>40.0</b>	1638	1710	1872	2020	2064
<b>42.5</b>	1555	1637	1818	1975	2025
<b>45.0</b>	1474	1555	1758	1925	1973
<b>47.5</b>	1385	1475	1692	1859	1910
<b>50.0</b>	1291	1388	1611	1786	1833
<b>52.5</b>	1194	1294	1528	1695	1747
<b>55.0</b>	1090	1201	1431	1593	1647
<b>57.5</b>	992	1098	1332	1488	1540
<b>60.0</b>	894	993	1220	1376	1420
<b>62.5</b>	789	890	1101	1249	1290
<b>65.0</b>	690	788	985	1119	1161
<b>67.5</b>	594	685	864	986	1016
<b>70.0</b>	503	583	743	852	883
<b>72.5</b>	414	484	616	718	746
<b>75.0</b>	336	392	508	584	603
<b>77.5</b>	261	308	399	446	442
<b>80.0</b>	190	228	289	296	289
<b>82.5</b>	130	154	177	159	148
<b>85.0</b>	77	87	81	65	65
<b>87.5</b>	35	31	22	20	19
<b>90.0</b>	12	5	3	2	2

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	1809.05	20.60	25.20
0-40	3035.02	34.50	42.20
0-60	5623.16	63.90	78.20
0-90	7187.72	81.70	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	7187.72	81.70	100.00

Total Luminaire Efficiency = 81.70%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	215.01
10-20	622.91
20-30	971.13
30-40	1225.97
40-50	1340.52
50-60	1247.63
60-70	942.85
70-80	515.16
80-90	106.55
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

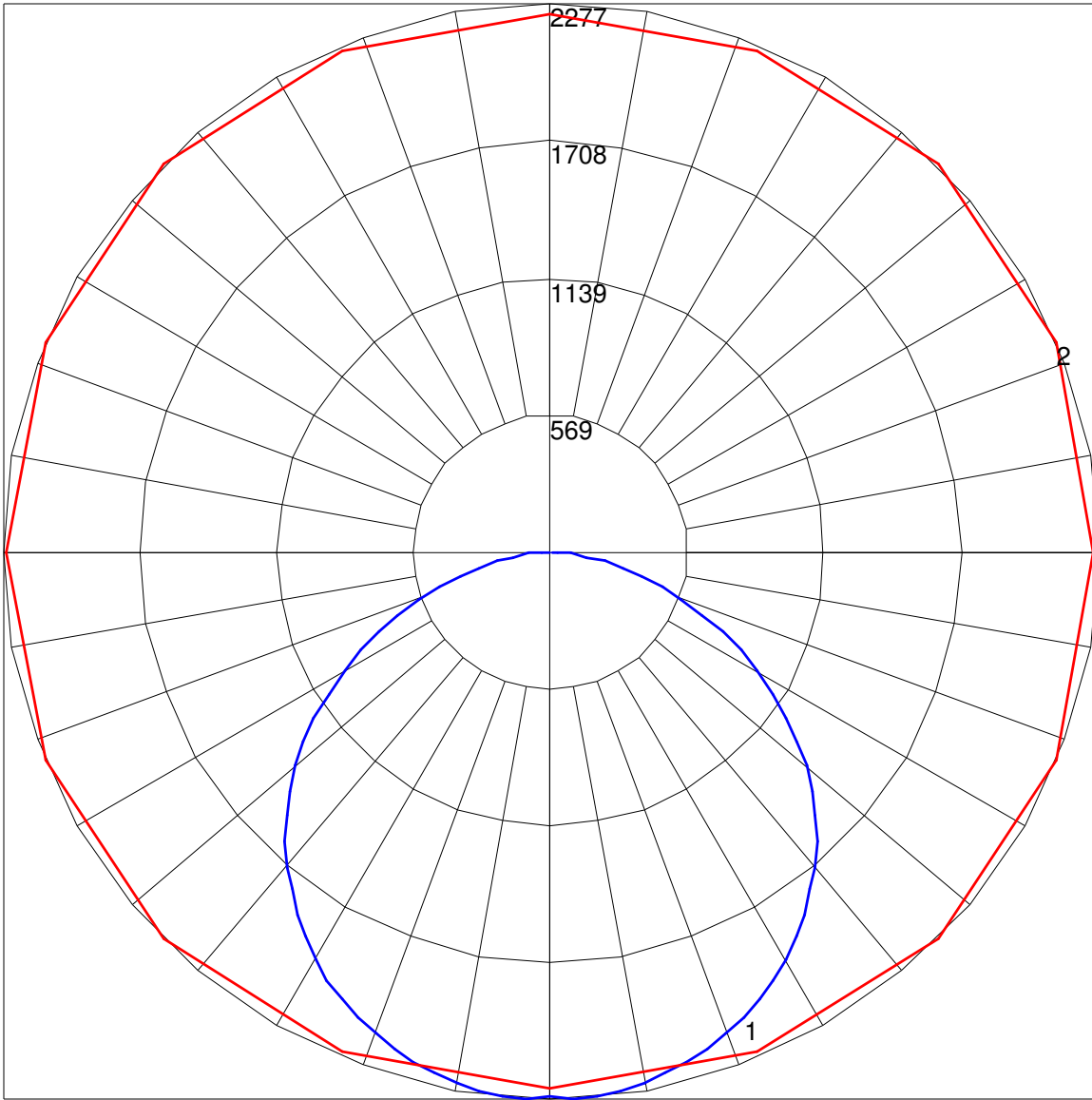
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	97	97	97	97	95	95	95	95	91	91	91	87	87	87	83	83	83	82
1	89	85	81	78	86	83	80	77	79	77	74	76	74	72	73	72	70	68
2	80	74	68	63	78	72	67	62	69	65	61	66	63	59	64	61	58	56
3	73	64	57	52	71	63	57	52	61	55	51	58	54	50	56	52	49	47
4	67	57	49	44	65	56	49	43	54	48	43	52	46	42	50	45	42	40
5	61	50	43	37	59	50	42	37	48	42	37	46	41	36	45	40	36	34
6	56	45	38	32	55	44	37	32	43	37	32	42	36	32	40	35	31	30
7	52	41	34	29	51	40	33	28	39	33	28	38	32	28	37	32	28	26
8	49	37	30	25	47	37	30	25	36	29	25	35	29	25	34	29	25	23
9	45	34	27	23	44	34	27	23	33	27	22	32	26	22	31	26	22	21
10	42	31	25	20	41	31	25	20	30	24	20	29	24	20	29	24	20	19

POLAR GRAPH



Maximum Candela = 2277 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)