

# PHILIPS

# Day-Brite

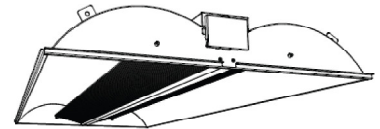
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 27906.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 27906  
[DATE] 12/03/2008  
[LUMCAT] 2AVEG254HO-FGL-EB  
[LUMINAIRE] DAY-BRITE 2X4 ARIOSO ESSENCE GLASS  
[LAMP] F54T5HO  
[BALLAST] TRIAD B254PUNV-D  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUE DATE] 12/3/2008  
[\_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	5532
Total Luminaire Efficiency	63 %
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	2.00 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	2363	2458	2502
55	2222	2379	2430
65	2036	2290	2395
75	1750	2140	1662
85	1126	1141	910

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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>	1959	1959	1959	1959	1959
<b>2.5</b>	1975	1961	1952	1948	1948
<b>5.0</b>	1965	1952	1946	1939	1939
<b>7.5</b>	1954	1939	1931	1929	1929
<b>10.0</b>	1933	1923	1914	1910	1912
<b>12.5</b>	1915	1900	1894	1889	1894
<b>15.0</b>	1888	1873	1867	1865	1867
<b>17.5</b>	1857	1840	1836	1838	1838
<b>20.0</b>	1817	1805	1803	1803	1807
<b>22.5</b>	1776	1761	1764	1766	1771
<b>25.0</b>	1731	1718	1720	1728	1731
<b>27.5</b>	1682	1669	1674	1684	1693
<b>30.0</b>	1630	1615	1622	1642	1654
<b>32.5</b>	1571	1558	1571	1597	1610
<b>35.0</b>	1511	1501	1517	1545	1562
<b>37.5</b>	1448	1438	1465	1496	1509
<b>40.0</b>	1381	1374	1410	1439	1450
<b>42.5</b>	1313	1314	1352	1380	1386
<b>45.0</b>	1243	1247	1293	1309	1316
<b>47.5</b>	1168	1179	1225	1238	1244
<b>50.0</b>	1094	1108	1159	1167	1174
<b>52.5</b>	1021	1038	1090	1095	1105
<b>55.0</b>	948	969	1015	1030	1037
<b>57.5</b>	871	900	940	958	972
<b>60.0</b>	794	829	865	889	903
<b>62.5</b>	716	760	792	821	829
<b>65.0</b>	640	686	720	746	753
<b>67.5</b>	566	615	651	669	668
<b>70.0</b>	485	533	577	583	571
<b>72.5</b>	407	460	496	479	455
<b>75.0</b>	337	386	412	358	320
<b>77.5</b>	261	315	307	243	240
<b>80.0</b>	195	242	190	185	180
<b>82.5</b>	128	166	130	125	122
<b>85.0</b>	73	75	74	64	59
<b>87.5</b>	30	30	22	17	16
<b>90.0</b>	5	1	0	0	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	1507.23	17.10	27.20
0-40	2461.49	28.00	44.50
0-60	4345.09	49.40	78.50
0-90	5532.44	62.90	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	5532.44	62.90	100.00

Total Luminaire Efficiency = 62.90%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.95
10-20	527.72
20-30	794.56
30-40	954.26
40-50	988.21
50-60	895.39
60-70	703.62
70-80	393.91
80-90	89.82
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

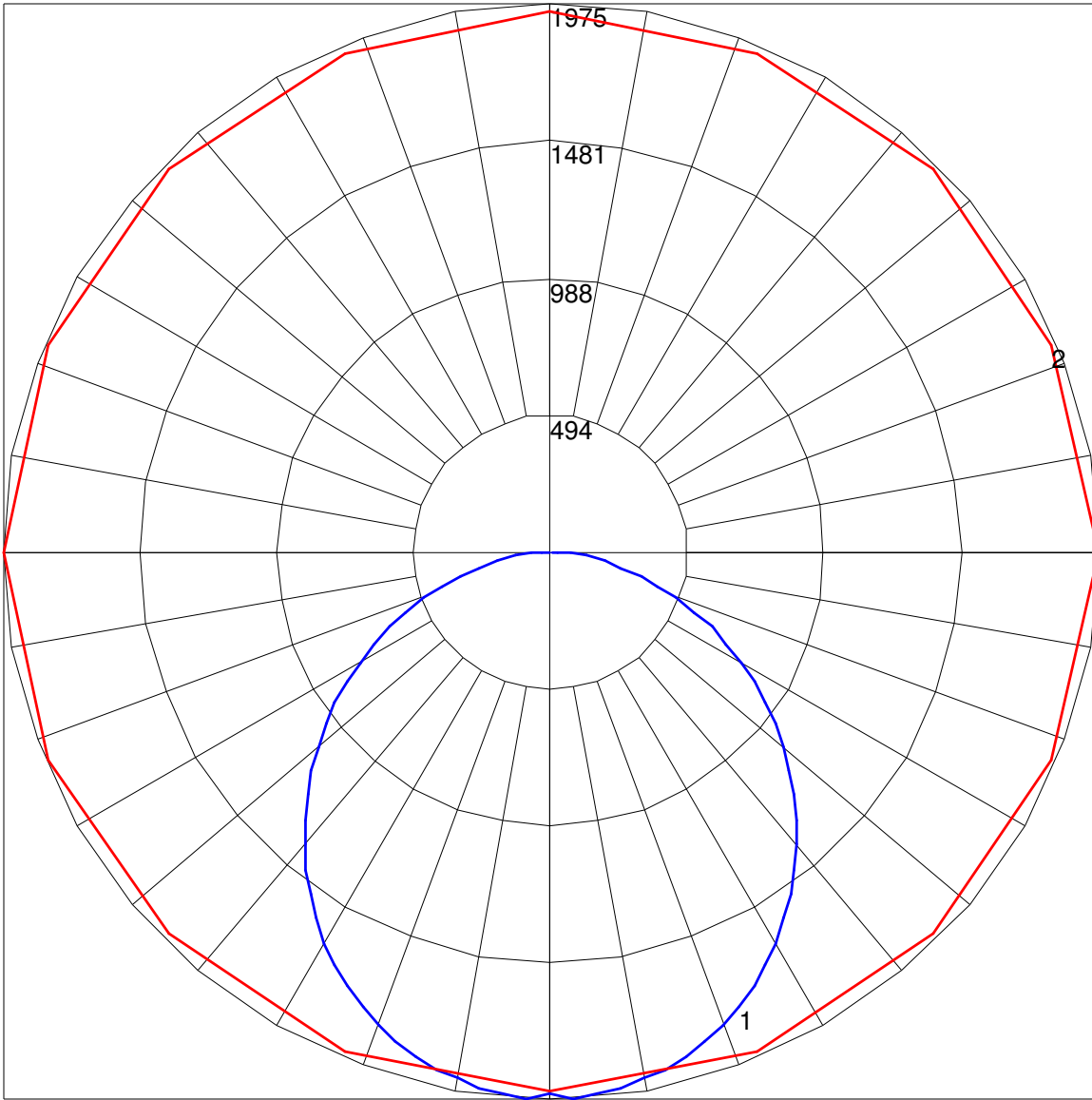
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	68	65	63	60	67	64	61	59	61	59	57	59	57	56	57	55	54	53
2	62	57	53	49	60	56	52	48	53	50	47	51	49	46	49	47	45	44
3	57	50	45	41	55	49	44	40	47	43	39	45	42	39	44	41	38	37
4	52	44	39	34	50	43	38	34	42	37	34	40	36	33	39	35	33	31
5	48	39	34	30	46	39	33	29	37	33	29	36	32	29	35	31	28	27
6	44	35	30	26	43	35	30	26	34	29	25	33	28	25	32	28	25	24
7	41	32	27	23	40	32	26	23	31	26	22	30	25	22	29	25	22	21
8	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	19
9	35	27	22	18	34	27	22	18	26	21	18	25	21	18	24	21	18	17
10	33	25	20	17	32	24	20	16	24	19	16	23	19	16	23	19	16	15

POLAR GRAPH



Maximum Candela = 1975 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.)