

# PHILIPS

# Day-Brite

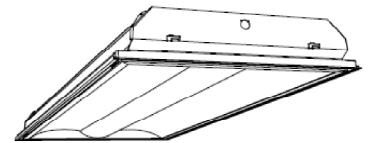
IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 27034D1.IES

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 27034  
[DATE] 10/18/2007  
[LUMCAT] 2STGA232-D-1/2-EB  
[LUMINAIRE] DAY-BRITE 2X4 SOFTRACE AIR W/DIFFUSE DIFFUSER  
[LAMP] F32T8  
[BALLAST] SYLVANIA QTP2X32T8/UNV ISN-SC  
[MANUFAC] PHILIPS DAY-BRITE  
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS  
[MORE] NVLAP LABORATORY CODE 200016-0  
[ISSUEDATE] 10/29/2007  
[\_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	2850 (2 lamps)
Total Lamp Lumens	5700
Luminaire Lumens	4856
Total Luminaire Efficiency	85 %
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	59
Ballast Factor	0.88
CIE Type	Direct
Spacing Criterion (0-180)	1.26
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)	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	2284	2385	2547
55	2105	2314	2576
65	1727	2127	2415
75	1353	1834	2034
85	953	1242	1123

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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	1725	1725	1725	1725	1725
2.5	1734	1728	1726	1717	1711
5.0	1730	1723	1719	1710	1707
7.5	1718	1713	1709	1699	1695
10.0	1701	1697	1693	1682	1680
12.5	1684	1680	1675	1665	1661
15.0	1661	1656	1653	1645	1639
17.5	1636	1631	1630	1619	1611
20.0	1608	1603	1597	1588	1584
22.5	1571	1568	1564	1554	1550
25.0	1533	1528	1525	1518	1515
27.5	1484	1481	1484	1478	1480
30.0	1444	1441	1439	1442	1443
32.5	1391	1392	1392	1400	1408
35.0	1334	1338	1345	1360	1372
37.5	1283	1282	1293	1320	1334
40.0	1219	1222	1241	1277	1294
42.5	1156	1161	1194	1236	1258
45.0	1089	1096	1137	1191	1214
47.5	1017	1032	1081	1143	1170
50.0	944	958	1020	1088	1120
52.5	871	887	959	1037	1062
55.0	814	817	895	972	996
57.5	717	743	826	905	927
60.0	642	667	756	831	850
62.5	564	594	681	750	770
65.0	492	524	606	669	688
67.5	423	456	534	587	606
70.0	359	388	462	509	517
72.5	295	322	389	429	439
75.0	236	265	320	352	355
77.5	181	208	256	274	276
80.0	135	157	195	194	188
82.5	91	112	132	120	116
85.0	56	68	73	66	66
87.5	25	29	29	23	22
90.0	7	6	1	1	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	1331.02	23.40	27.40
0-40	2175.34	38.20	44.80
0-60	3855.85	67.60	79.40
0-90	4856.09	85.20	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	4856.09	85.20	100.00

Total Luminaire Efficiency = 85.20%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	163.10
10-20	465.88
20-30	702.04
30-40	844.31
40-50	881.96
50-60	798.55
60-70	591.87
70-80	326.79
80-90	81.58
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

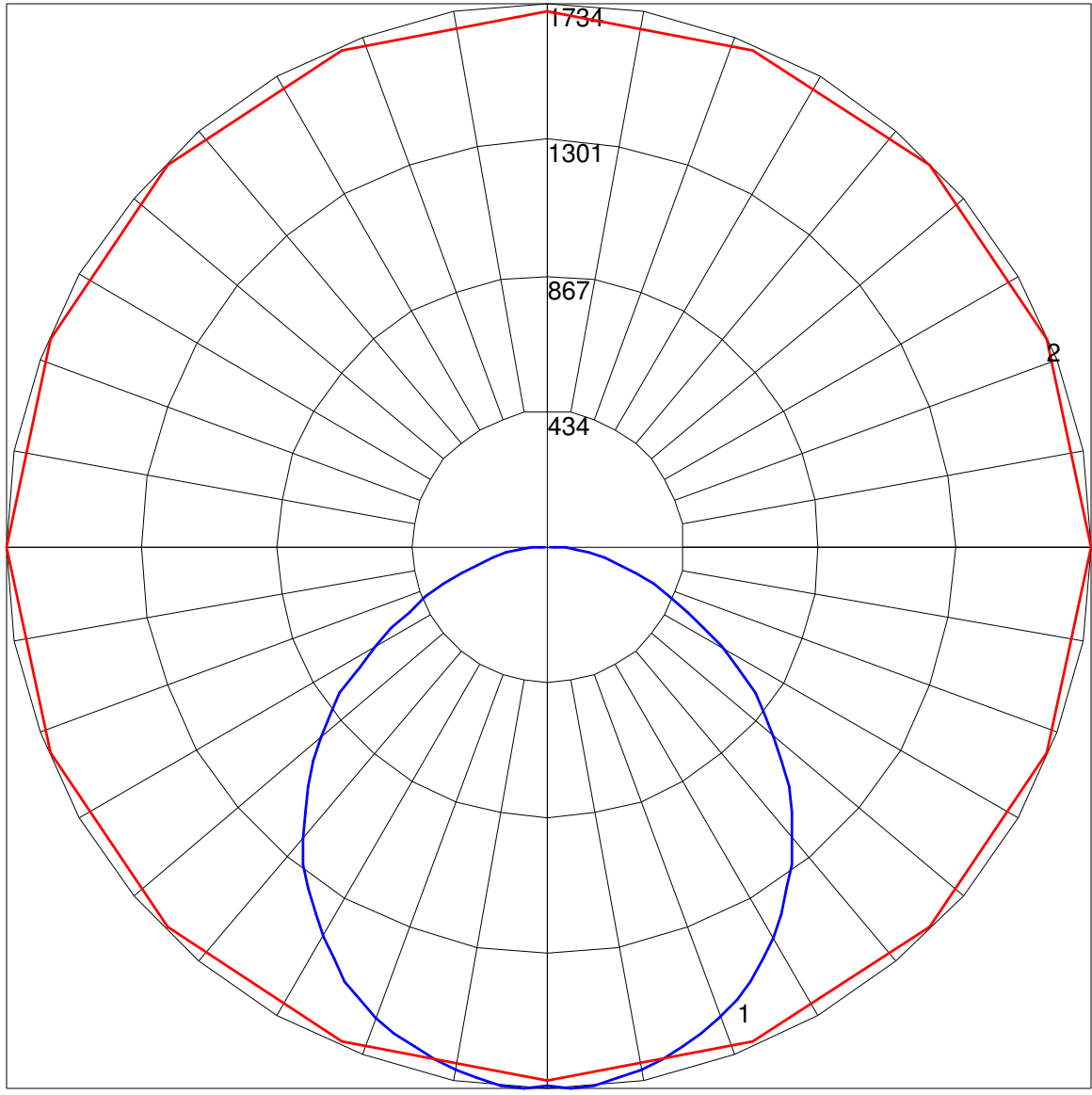
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	101	101	101	99	99	99	99	95	95	95	91	91	91	87	87	87	85
1	93	89	85	82	90	87	83	80	83	80	78	80	78	75	77	75	73	71
2	84	77	71	67	82	76	70	66	73	68	64	70	66	63	67	64	61	60
3	77	68	61	55	75	66	60	55	64	58	54	62	57	53	59	55	52	50
4	70	60	53	47	68	59	52	46	57	51	46	55	49	45	53	48	45	43
5	65	54	46	40	63	53	45	40	51	44	40	49	44	39	48	43	39	37
6	60	48	41	35	58	47	40	35	46	39	35	44	39	34	43	38	34	32
7	55	44	36	31	54	43	36	31	42	35	31	40	35	30	39	34	30	28
8	51	40	33	28	50	39	32	28	38	32	27	37	31	27	36	31	27	25
9	48	37	30	25	47	36	29	25	35	29	25	34	29	25	33	28	24	23
10	45	34	27	23	44	33	27	22	32	26	22	32	26	22	31	26	22	21

POLAR GRAPH



Maximum Candela = 1734 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.)