

Day-Brite

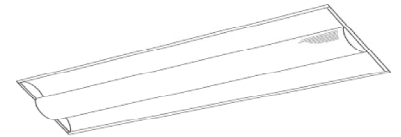
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 23992.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] 23992
[DATE] 07/01/2003
[LUMCAT] 1AVLG254HO-PMW-1/2-EB
[LUMINAIRE] DAY-BRITE 1X4 ARIOSO SEMI RECESSED DIRECT/INDIRECT
[LAMP] F54T5HO
[BALLAST] ENERGY SAVINGS ES-2-T5-54-UNV-K
[MANUFAC] PHILIPS DAY-BRITE
[_TIFF_FILE_NAME]
[_VERSION] fo2ies 3.0a
[OTHER] Reflection factor 0.91, Test distance = 26 ft.
[MORE] Shielding angle: normal 90, Parallel 90

CHARACTERISTICS

| | |
|---------------------------------|----------------|
| Lumens Per Lamp | 4400 (2 lamps) |
| Total Lamp Lumens | 8800 |
| Luminaire Lumens | 4428 |
| Total Luminaire Efficiency | 50 % |
| Luminaire Efficacy Rating (LER) | 39 |
| Total Luminaire Watts | 114 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.28 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.86 ft |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 4943 | 4794 | 4486 |
| 55 | 4728 | 4175 | 3584 |
| 65 | 4408 | 3105 | 3223 |
| 75 | 3905 | 2655 | 2824 |
| 85 | 2355 | 1820 | 1855 |

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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 | 1649 | 1649 | 1649 | 1649 | 1649 |
| 2.5 | 1681 | 1639 | 1627 | 1633 | 1656 |
| 5.0 | 1675 | 1635 | 1624 | 1631 | 1651 |
| 7.5 | 1666 | 1626 | 1617 | 1626 | 1645 |
| 10.0 | 1653 | 1613 | 1607 | 1615 | 1636 |
| 12.5 | 1637 | 1600 | 1590 | 1599 | 1624 |
| 15.0 | 1614 | 1579 | 1574 | 1585 | 1606 |
| 17.5 | 1591 | 1559 | 1553 | 1568 | 1593 |
| 20.0 | 1569 | 1533 | 1533 | 1549 | 1572 |
| 22.5 | 1537 | 1503 | 1507 | 1522 | 1545 |
| 25.0 | 1505 | 1473 | 1478 | 1493 | 1511 |
| 27.5 | 1468 | 1438 | 1446 | 1456 | 1476 |
| 30.0 | 1429 | 1402 | 1410 | 1415 | 1427 |
| 32.5 | 1384 | 1362 | 1371 | 1368 | 1375 |
| 35.0 | 1339 | 1317 | 1324 | 1314 | 1317 |
| 37.5 | 1291 | 1271 | 1273 | 1252 | 1248 |
| 40.0 | 1237 | 1221 | 1217 | 1184 | 1178 |
| 42.5 | 1184 | 1170 | 1156 | 1116 | 1101 |
| 45.0 | 1124 | 1114 | 1090 | 1032 | 1020 |
| 47.5 | 1066 | 1057 | 1017 | 949 | 930 |
| 50.0 | 1003 | 995 | 939 | 861 | 840 |
| 52.5 | 939 | 931 | 857 | 772 | 753 |
| 55.0 | 872 | 863 | 770 | 681 | 661 |
| 57.5 | 805 | 789 | 681 | 598 | 590 |
| 60.0 | 735 | 714 | 592 | 529 | 539 |
| 62.5 | 666 | 636 | 501 | 476 | 489 |
| 65.0 | 599 | 553 | 422 | 428 | 438 |
| 67.5 | 529 | 469 | 363 | 378 | 388 |
| 70.0 | 463 | 380 | 316 | 332 | 338 |
| 72.5 | 390 | 297 | 267 | 282 | 287 |
| 75.0 | 325 | 215 | 221 | 230 | 235 |
| 77.5 | 252 | 153 | 173 | 181 | 184 |
| 80.0 | 186 | 114 | 129 | 132 | 136 |
| 82.5 | 120 | 80 | 88 | 90 | 93 |
| 85.0 | 66 | 48 | 51 | 51 | 52 |
| 87.5 | 27 | 22 | 21 | 22 | 22 |
| 90.0 | 8 | 4 | 2 | 1 | 3 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 1289.75 | 14.70 | 29.10 |
| 0-40 | 2114.53 | 24.00 | 47.80 |
| 0-60 | 3633.04 | 41.30 | 82.10 |
| 0-90 | 4427.61 | 50.30 | 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 | 4427.61 | 50.30 | 100.00 |

Total Luminaire Efficiency = 50.30%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 155.82 |
| 10-20 | 448.45 |
| 20-30 | 685.49 |
| 30-40 | 824.78 |
| 40-50 | 828.92 |
| 50-60 | 689.59 |
| 60-70 | 477.96 |
| 70-80 | 252.87 |
| 80-90 | 63.73 |
| 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 |

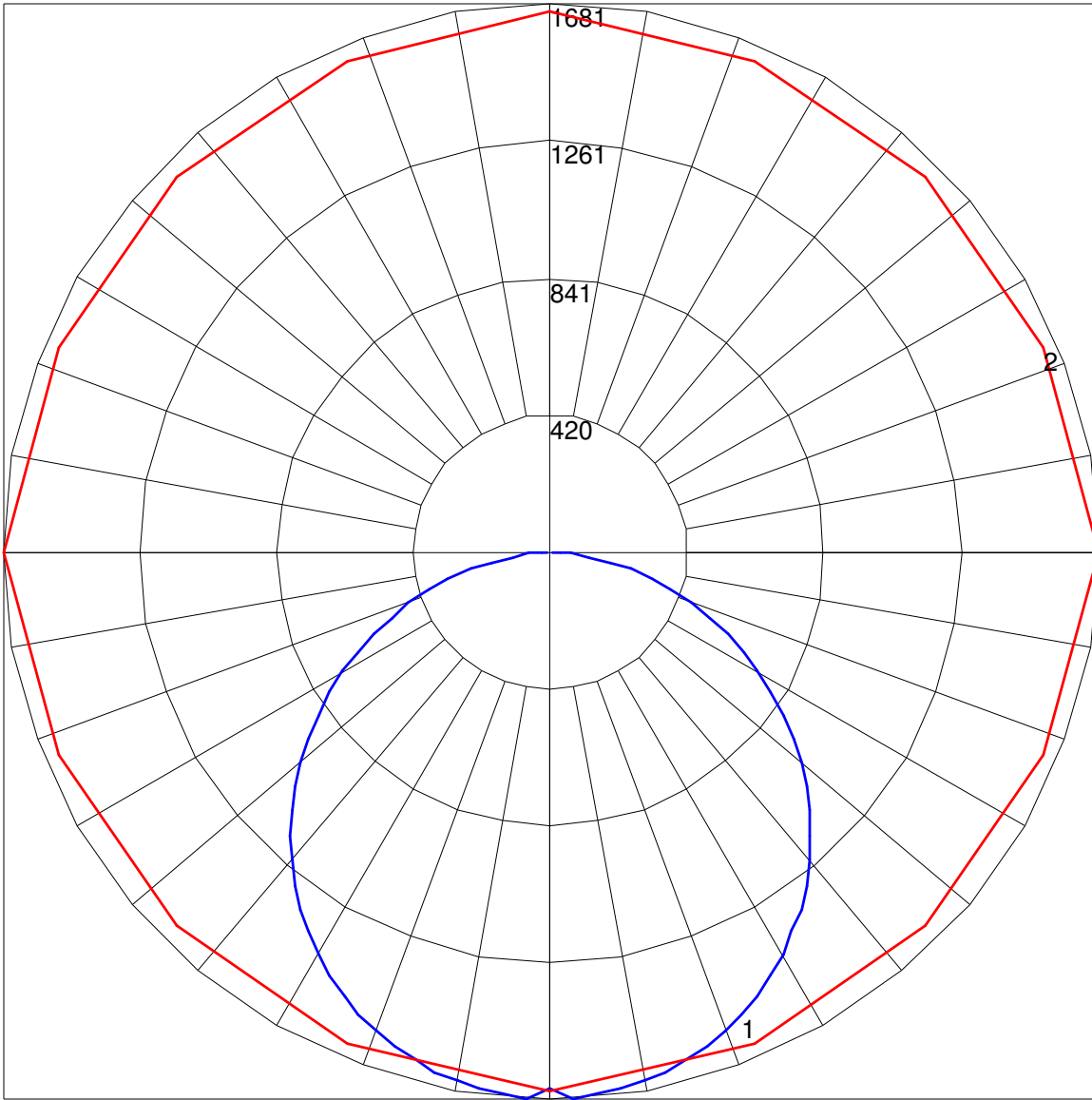
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 60 | 60 | 60 | 60 | 59 | 59 | 59 | 59 | 56 | 56 | 56 | 54 | 54 | 54 | 51 | 51 | 51 | 50 | 50 |
| 1 | 55 | 53 | 51 | 49 | 54 | 52 | 50 | 48 | 49 | 48 | 46 | 47 | 46 | 45 | 46 | 45 | 44 | 43 | 43 |
| 2 | 50 | 46 | 43 | 40 | 49 | 45 | 42 | 40 | 43 | 41 | 39 | 42 | 40 | 38 | 40 | 39 | 37 | 36 | 36 |
| 3 | 46 | 41 | 37 | 34 | 45 | 40 | 36 | 33 | 38 | 35 | 33 | 37 | 34 | 32 | 36 | 34 | 32 | 30 | 30 |
| 4 | 42 | 36 | 32 | 29 | 41 | 36 | 31 | 28 | 34 | 31 | 28 | 33 | 30 | 28 | 32 | 29 | 27 | 26 | 26 |
| 5 | 39 | 32 | 28 | 25 | 38 | 32 | 28 | 25 | 31 | 27 | 24 | 30 | 27 | 24 | 29 | 26 | 24 | 23 | 23 |
| 6 | 36 | 29 | 25 | 22 | 35 | 29 | 25 | 22 | 28 | 24 | 21 | 27 | 24 | 21 | 26 | 23 | 21 | 20 | 20 |
| 7 | 33 | 27 | 22 | 19 | 32 | 26 | 22 | 19 | 25 | 22 | 19 | 25 | 21 | 19 | 24 | 21 | 19 | 18 | 18 |
| 8 | 31 | 24 | 20 | 17 | 30 | 24 | 20 | 17 | 23 | 20 | 17 | 23 | 19 | 17 | 22 | 19 | 17 | 16 | 16 |
| 9 | 29 | 22 | 18 | 15 | 28 | 22 | 18 | 15 | 21 | 18 | 15 | 21 | 18 | 15 | 20 | 17 | 15 | 14 | 14 |
| 10 | 27 | 21 | 17 | 14 | 26 | 20 | 16 | 14 | 20 | 16 | 14 | 19 | 16 | 14 | 19 | 16 | 14 | 13 | 13 |

POLAR GRAPH



Maximum Candela = 1681 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.)