

Day-Brite

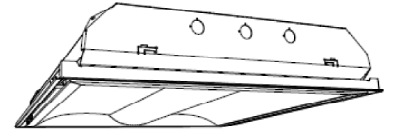
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 27157D7.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 27157
[DATE] 12/12/2007
[LUMCAT] 2STGA2CF40-DS-1/2-EB-RIB
[LUMINAIRE] DAY-BRITE 2X2 SOFTRACE AIR W/DIFFUSE DIFFUSER
[LAMP] F40BX
[BALLAST] TRIAD C240PUNVHP-B
[MANUFAC] PHILIPS DAY-BRITE
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS
[MORE] NVLAP LABORATORY CODE 200016-0
[ISSUE DATE] 12/13/2007
[_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 | 3150 (2 lamps) |
| Total Lamp Lumens | 6300 |
| Luminaire Lumens | 4963 |
| Total Luminaire Efficiency | 79 % |
| Luminaire Efficacy Rating (LER) | 67 |
| Total Luminaire Watts | 70 |
| Ballast Factor | 0.95 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.42 |
| Spacing Criterion (Diagonal) | 1.46 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.83 ft |
| Luminous Width (90-270) | 1.83 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 | 4661 | 5430 | 6100 |
| 55 | 4240 | 5232 | 6119 |
| 65 | 3642 | 4777 | 5777 |
| 75 | 2905 | 4253 | 5365 |
| 85 | 1982 | 2350 | 2496 |

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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 | 1633 | 1633 | 1633 | 1633 | 1633 |
| 2.5 | 1621 | 1627 | 1632 | 1637 | 1640 |
| 5.0 | 1614 | 1623 | 1625 | 1632 | 1638 |
| 7.5 | 1604 | 1614 | 1618 | 1627 | 1635 |
| 10.0 | 1594 | 1601 | 1611 | 1620 | 1632 |
| 12.5 | 1577 | 1586 | 1599 | 1614 | 1626 |
| 15.0 | 1554 | 1568 | 1585 | 1604 | 1620 |
| 17.5 | 1534 | 1548 | 1571 | 1595 | 1609 |
| 20.0 | 1506 | 1521 | 1551 | 1584 | 1603 |
| 22.5 | 1472 | 1491 | 1529 | 1569 | 1590 |
| 25.0 | 1440 | 1461 | 1506 | 1553 | 1581 |
| 27.5 | 1405 | 1421 | 1481 | 1534 | 1568 |
| 30.0 | 1359 | 1387 | 1450 | 1516 | 1549 |
| 32.5 | 1311 | 1344 | 1416 | 1489 | 1527 |
| 35.0 | 1263 | 1298 | 1383 | 1463 | 1501 |
| 37.5 | 1210 | 1249 | 1338 | 1428 | 1473 |
| 40.0 | 1155 | 1194 | 1296 | 1392 | 1436 |
| 42.5 | 1091 | 1133 | 1246 | 1347 | 1392 |
| 45.0 | 1030 | 1077 | 1200 | 1302 | 1348 |
| 47.5 | 968 | 1013 | 1141 | 1249 | 1294 |
| 50.0 | 901 | 948 | 1079 | 1187 | 1235 |
| 52.5 | 831 | 881 | 1010 | 1118 | 1168 |
| 55.0 | 760 | 809 | 938 | 1049 | 1097 |
| 57.5 | 687 | 740 | 865 | 971 | 1017 |
| 60.0 | 617 | 666 | 789 | 889 | 937 |
| 62.5 | 547 | 596 | 710 | 809 | 848 |
| 65.0 | 481 | 521 | 631 | 725 | 763 |
| 67.5 | 416 | 454 | 553 | 641 | 688 |
| 70.0 | 347 | 389 | 479 | 568 | 607 |
| 72.5 | 289 | 323 | 403 | 489 | 525 |
| 75.0 | 235 | 265 | 344 | 406 | 434 |
| 77.5 | 183 | 208 | 278 | 311 | 319 |
| 80.0 | 136 | 157 | 204 | 208 | 212 |
| 82.5 | 94 | 107 | 125 | 126 | 132 |
| 85.0 | 54 | 59 | 64 | 67 | 68 |
| 87.5 | 22 | 22 | 21 | 21 | 20 |
| 90.0 | 3 | 1 | 1 | 1 | 1 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 1298.5 | 20.60 | 26.20 |
| 0-40 | 2162.03 | 34.30 | 43.60 |
| 0-60 | 3910.21 | 62.10 | 78.80 |
| 0-90 | 4963.18 | 78.80 | 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 | 4963.18 | 78.80 | 100.00 |

Total Luminaire Efficiency = 78.80%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 154.78 |
| 10-20 | 448.42 |
| 20-30 | 695.31 |
| 30-40 | 863.54 |
| 40-50 | 917.28 |
| 50-60 | 830.89 |
| 60-70 | 620.23 |
| 70-80 | 352.45 |
| 80-90 | 80.28 |
| 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 |

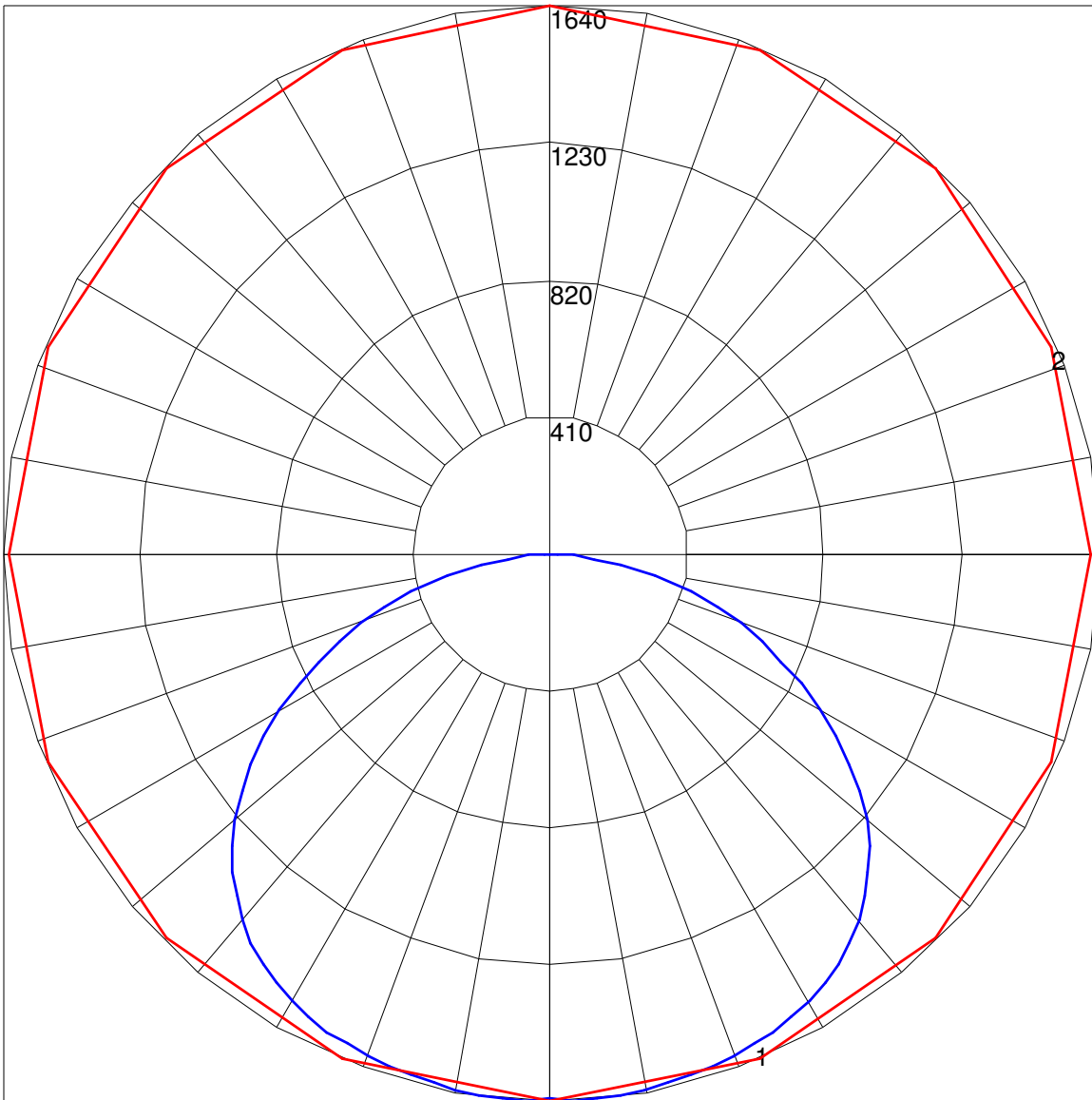
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 94 | 94 | 94 | 94 | 92 | 92 | 92 | 92 | 88 | 88 | 88 | 84 | 84 | 84 | 80 | 80 | 80 | 79 |
| 1 | 86 | 82 | 78 | 75 | 83 | 80 | 77 | 74 | 77 | 74 | 72 | 74 | 72 | 70 | 71 | 69 | 68 | 66 |
| 2 | 78 | 71 | 66 | 61 | 76 | 70 | 65 | 60 | 67 | 63 | 59 | 64 | 61 | 58 | 62 | 59 | 56 | 55 |
| 3 | 71 | 62 | 56 | 51 | 69 | 61 | 55 | 50 | 59 | 54 | 49 | 57 | 52 | 48 | 55 | 51 | 48 | 46 |
| 4 | 65 | 55 | 48 | 43 | 63 | 54 | 47 | 42 | 52 | 46 | 42 | 50 | 45 | 41 | 48 | 44 | 41 | 39 |
| 5 | 59 | 49 | 42 | 37 | 58 | 48 | 41 | 36 | 47 | 41 | 36 | 45 | 40 | 36 | 43 | 39 | 35 | 34 |
| 6 | 55 | 44 | 37 | 32 | 53 | 43 | 37 | 32 | 42 | 36 | 31 | 41 | 35 | 31 | 39 | 35 | 31 | 29 |
| 7 | 51 | 40 | 33 | 28 | 49 | 39 | 33 | 28 | 38 | 32 | 28 | 37 | 32 | 28 | 36 | 31 | 27 | 26 |
| 8 | 47 | 36 | 30 | 25 | 46 | 36 | 29 | 25 | 35 | 29 | 25 | 34 | 28 | 25 | 33 | 28 | 24 | 23 |
| 9 | 44 | 33 | 27 | 22 | 43 | 33 | 27 | 22 | 32 | 26 | 22 | 31 | 26 | 22 | 30 | 25 | 22 | 20 |
| 10 | 41 | 31 | 24 | 20 | 40 | 30 | 24 | 20 | 30 | 24 | 20 | 29 | 24 | 20 | 28 | 23 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 1640 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)