

Day-Brite

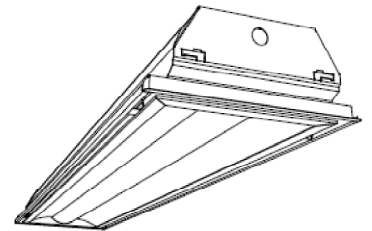
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 27095D1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 27095
[DATE] 11/09/2007
[LUMCAT] 1STGA132-D-1/1-EB
[LUMINAIRE] DAY-BRITE 1X4 SOFTRACE AIR W/DIFFUSE DIFFUSER
[LAMP] F32T8
[BALLAST] QUICKTRONIC QTP2X32T8/UNV ISN-SC
[MANUFAC] PHILIPS DAY-BRITE
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY, TUPELO, MS
[MORE] NVLAP LABORATORY CODE 200016-0
[ISSUE DATE] 11/9/2007
[_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 | 2850 (1 lamp) |
| Total Lamp Lumens | 2850 |
| Luminaire Lumens | 2294 |
| Total Luminaire Efficiency | 80 % |
| Luminaire Efficacy Rating (LER) | 55 |
| Total Luminaire Watts | 37 |
| Ballast Factor | 0.88 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.22 |
| Spacing Criterion (Diagonal) | 1.34 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.81 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 | 2541 | 2560 | 2667 |
| 55 | 2302 | 2388 | 2481 |
| 65 | 1942 | 2075 | 2090 |
| 75 | 1547 | 1688 | 1572 |
| 85 | 1139 | 1063 | 873 |

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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 | 875 | 875 | 875 | 875 | 875 |
| 2.5 | 877 | 877 | 875 | 871 | 870 |
| 5.0 | 874 | 873 | 871 | 866 | 865 |
| 7.5 | 868 | 867 | 863 | 857 | 855 |
| 10.0 | 861 | 859 | 853 | 844 | 841 |
| 12.5 | 851 | 849 | 843 | 832 | 827 |
| 15.0 | 841 | 836 | 825 | 813 | 810 |
| 17.5 | 828 | 821 | 807 | 795 | 792 |
| 20.0 | 811 | 804 | 789 | 777 | 775 |
| 22.5 | 793 | 785 | 769 | 758 | 755 |
| 25.0 | 774 | 764 | 748 | 739 | 737 |
| 27.5 | 751 | 739 | 728 | 724 | 725 |
| 30.0 | 727 | 715 | 701 | 699 | 702 |
| 32.5 | 700 | 690 | 678 | 681 | 685 |
| 35.0 | 673 | 669 | 654 | 662 | 667 |
| 37.5 | 643 | 631 | 629 | 640 | 647 |
| 40.0 | 611 | 600 | 602 | 617 | 623 |
| 42.5 | 579 | 568 | 574 | 592 | 598 |
| 45.0 | 543 | 536 | 547 | 563 | 570 |
| 47.5 | 507 | 504 | 516 | 534 | 538 |
| 50.0 | 472 | 470 | 486 | 501 | 504 |
| 52.5 | 437 | 432 | 451 | 465 | 468 |
| 55.0 | 399 | 396 | 414 | 426 | 430 |
| 57.5 | 360 | 359 | 378 | 385 | 391 |
| 60.0 | 323 | 325 | 340 | 347 | 348 |
| 62.5 | 284 | 287 | 300 | 307 | 306 |
| 65.0 | 248 | 251 | 265 | 269 | 267 |
| 67.5 | 214 | 218 | 231 | 230 | 230 |
| 70.0 | 182 | 183 | 195 | 194 | 192 |
| 72.5 | 149 | 153 | 163 | 159 | 158 |
| 75.0 | 121 | 125 | 132 | 125 | 123 |
| 77.5 | 93 | 97 | 101 | 94 | 89 |
| 80.0 | 69 | 73 | 73 | 65 | 63 |
| 82.5 | 49 | 50 | 49 | 41 | 42 |
| 85.0 | 30 | 29 | 28 | 24 | 23 |
| 87.5 | 14 | 12 | 12 | 11 | 11 |
| 90.0 | 6 | 3 | 3 | 2 | 2 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 661.62 | 23.20 | 28.80 |
| 0-40 | 1075.58 | 37.70 | 46.90 |
| 0-60 | 1868.34 | 65.60 | 81.40 |
| 0-90 | 2294.06 | 80.50 | 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 | 2294.06 | 80.50 | 100.00 |

Total Luminaire Efficiency = 80.50%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 82.45 |
| 10-20 | 232.61 |
| 20-30 | 346.56 |
| 30-40 | 413.97 |
| 40-50 | 424.26 |
| 50-60 | 368.50 |
| 60-70 | 258.76 |
| 70-80 | 133.98 |
| 80-90 | 32.98 |
| 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 |

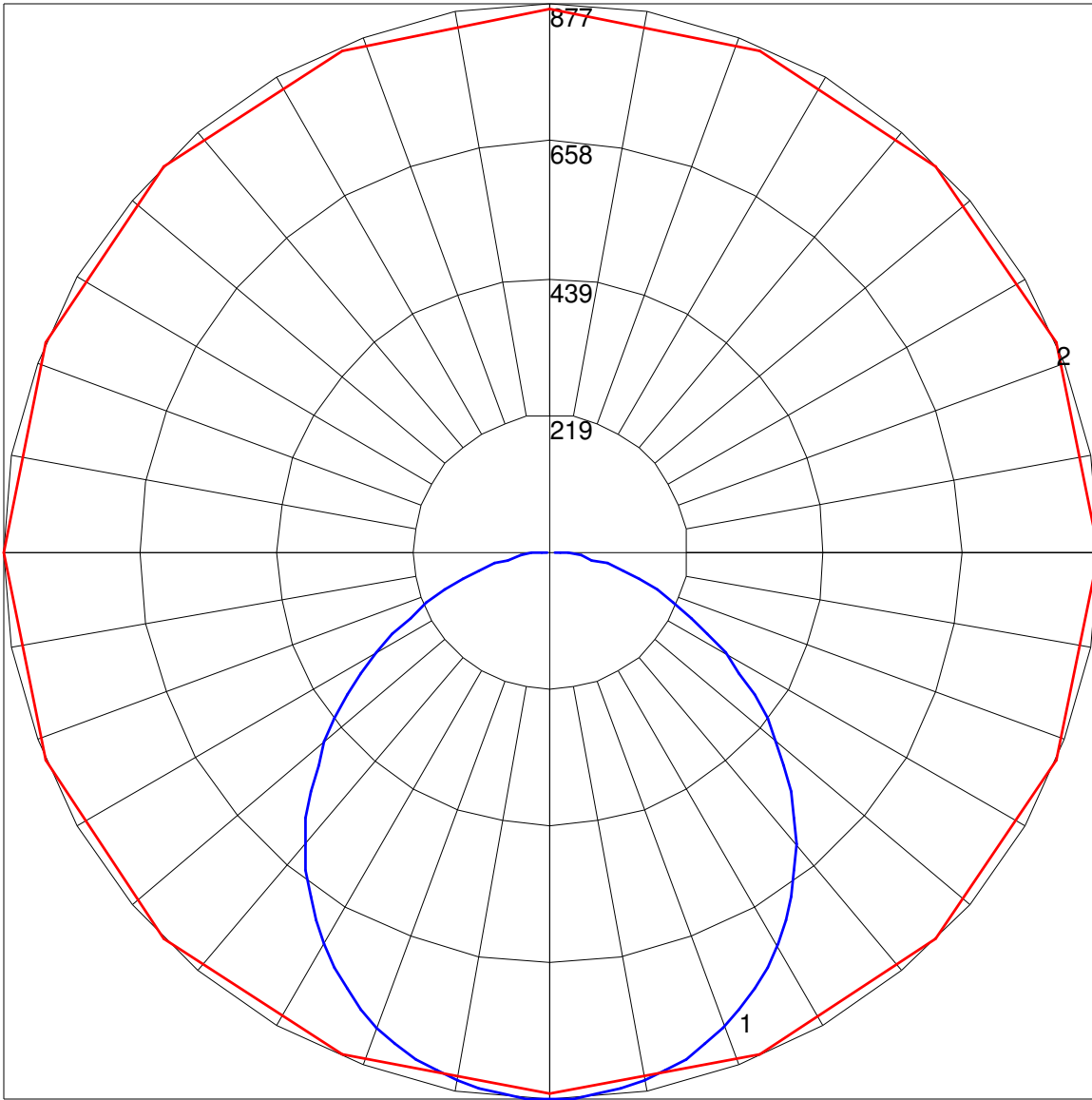
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 96 | 96 | 96 | 96 | 94 | 94 | 94 | 94 | 89 | 89 | 89 | 86 | 86 | 86 | 82 | 82 | 82 | 80 |
| 1 | 88 | 84 | 81 | 78 | 86 | 82 | 79 | 77 | 79 | 76 | 74 | 76 | 74 | 72 | 73 | 71 | 70 | 68 |
| 2 | 80 | 74 | 68 | 64 | 78 | 72 | 67 | 63 | 69 | 65 | 62 | 67 | 63 | 60 | 64 | 61 | 59 | 57 |
| 3 | 73 | 65 | 58 | 53 | 71 | 64 | 58 | 53 | 61 | 56 | 52 | 59 | 55 | 51 | 57 | 53 | 50 | 48 |
| 4 | 67 | 58 | 51 | 45 | 65 | 57 | 50 | 45 | 55 | 49 | 44 | 53 | 48 | 44 | 51 | 47 | 43 | 42 |
| 5 | 62 | 52 | 44 | 39 | 60 | 51 | 44 | 39 | 49 | 43 | 39 | 47 | 42 | 38 | 46 | 41 | 38 | 36 |
| 6 | 57 | 46 | 39 | 34 | 56 | 46 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 42 | 37 | 33 | 32 |
| 7 | 53 | 42 | 35 | 30 | 52 | 42 | 35 | 30 | 40 | 34 | 30 | 39 | 34 | 30 | 38 | 33 | 30 | 28 |
| 8 | 49 | 39 | 32 | 27 | 48 | 38 | 32 | 27 | 37 | 31 | 27 | 36 | 31 | 27 | 35 | 30 | 27 | 25 |
| 9 | 46 | 35 | 29 | 24 | 45 | 35 | 29 | 24 | 34 | 28 | 24 | 33 | 28 | 24 | 32 | 27 | 24 | 22 |
| 10 | 43 | 33 | 26 | 22 | 42 | 32 | 26 | 22 | 31 | 26 | 22 | 31 | 26 | 22 | 30 | 25 | 22 | 20 |

POLAR GRAPH



Maximum Candela = 877 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.)