



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VT4232SPEC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] Photopia 3.0.2.989 PHOTOMETRIC REPORT
 [DATE] Tue Feb 03 13:25:28 2009
 [LUMCAT] VT4232EXSM2/32W T8 LAMP
 [MORE] SPECULAR REFLECTOR w/LINEAR DROP LENS
 [MORE] SYLVANIA BALLAST #QTP2x32T8/UNV ISH-SC WATTS=66 REFL=88%
 [LAMPCAT] F32T8/835/RS

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | 2950 (2 lamps) |
| Total Lamp Lumens | 5900 |
| Luminaire Lumens | 5306 |
| Total Luminaire Efficiency | 90 % |
| Luminaire Efficacy Rating (LER) | 80 |
| Total Luminaire Watts | 66 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criteria (0-180) | 1.20 |
| Spacing Criteria (90-270) | 1.34 |
| Spacing Criteria (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.23 ft |
| Luminous Width (90-270) | 0.50 ft |
| Luminous Height | 0.16 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 6527 | 6077 | 5979 |
| 55 | 5761 | 5377 | 5144 |
| 65 | 4472 | 4234 | 4712 |
| 75 | 2856 | 3738 | 4623 |
| 85 | 1382 | 3925 | 5785 |

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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 | 1610 | 1610 | 1610 | 1610 | 1610 |
| 5 | 1612 | 1613 | 1631 | 1644 | 1645 |
| 10 | 1612 | 1614 | 1654 | 1673 | 1690 |
| 15 | 1576 | 1603 | 1655 | 1698 | 1691 |
| 20 | 1555 | 1604 | 1689 | 1697 | 1680 |
| 25 | 1424 | 1486 | 1550 | 1536 | 1584 |
| 30 | 1289 | 1373 | 1374 | 1408 | 1410 |
| 35 | 1190 | 1274 | 1323 | 1360 | 1383 |
| 40 | 1064 | 1138 | 1160 | 1237 | 1251 |
| 45 | 942 | 1011 | 1060 | 1100 | 1099 |
| 50 | 821 | 878 | 967 | 978 | 964 |
| 55 | 685 | 749 | 827 | 827 | 847 |
| 60 | 531 | 616 | 660 | 695 | 721 |
| 65 | 402 | 477 | 544 | 616 | 662 |
| 70 | 276 | 347 | 438 | 556 | 605 |
| 75 | 166 | 240 | 371 | 480 | 518 |
| 80 | 81 | 160 | 302 | 428 | 482 |
| 85 | 34 | 116 | 263 | 406 | 464 |
| 90 | 14 | 86 | 244 | 382 | 438 |
| 95 | 8 | 57 | 209 | 337 | 390 |
| 100 | 6 | 37 | 176 | 298 | 341 |
| 105 | 0 | 22 | 134 | 234 | 282 |
| 110 | 0 | 8 | 85 | 179 | 215 |
| 115 | 0 | 0 | 45 | 117 | 150 |
| 120 | 0 | 0 | 21 | 68 | 93 |
| 125 | 0 | 0 | 5 | 36 | 51 |
| 130 | 0 | 0 | 3 | 19 | 30 |
| 135 | 0 | 0 | 0 | 14 | 19 |
| 140 | 0 | 0 | 0 | 10 | 10 |
| 145 | 0 | 0 | 0 | 8 | 8 |
| 150 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|--------|
| 0-30 | 1322.29 | 22.40 | 24.90 |
| 0-40 | 2132.4 | 36.10 | 40.20 |
| 0-60 | 3650.5 | 61.90 | 68.80 |
| 0-90 | 4859.31 | 82.40 | 91.60 |
| 90-120 | 422.56 | 7.20 | 8.00 |
| 90-130 | 439.86 | 7.50 | 8.30 |
| 90-150 | 446.26 | 7.60 | 8.40 |
| 90-180 | 446.26 | 7.60 | 8.40 |
| 0-180 | 5305.58 | 89.90 | 100.00 |

Total Luminaire Efficiency = 89.90%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 155.96 |
| 10-20 | 467.38 |
| 20-30 | 698.95 |
| 30-40 | 810.12 |
| 40-50 | 810.67 |
| 50-60 | 707.43 |
| 60-70 | 539.73 |
| 70-80 | 384.28 |
| 80-90 | 284.81 |
| 90-100 | 220.09 |
| 100-110 | 140.81 |
| 110-120 | 61.66 |
| 120-130 | 17.30 |
| 130-140 | 4.84 |
| 140-150 | 1.57 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

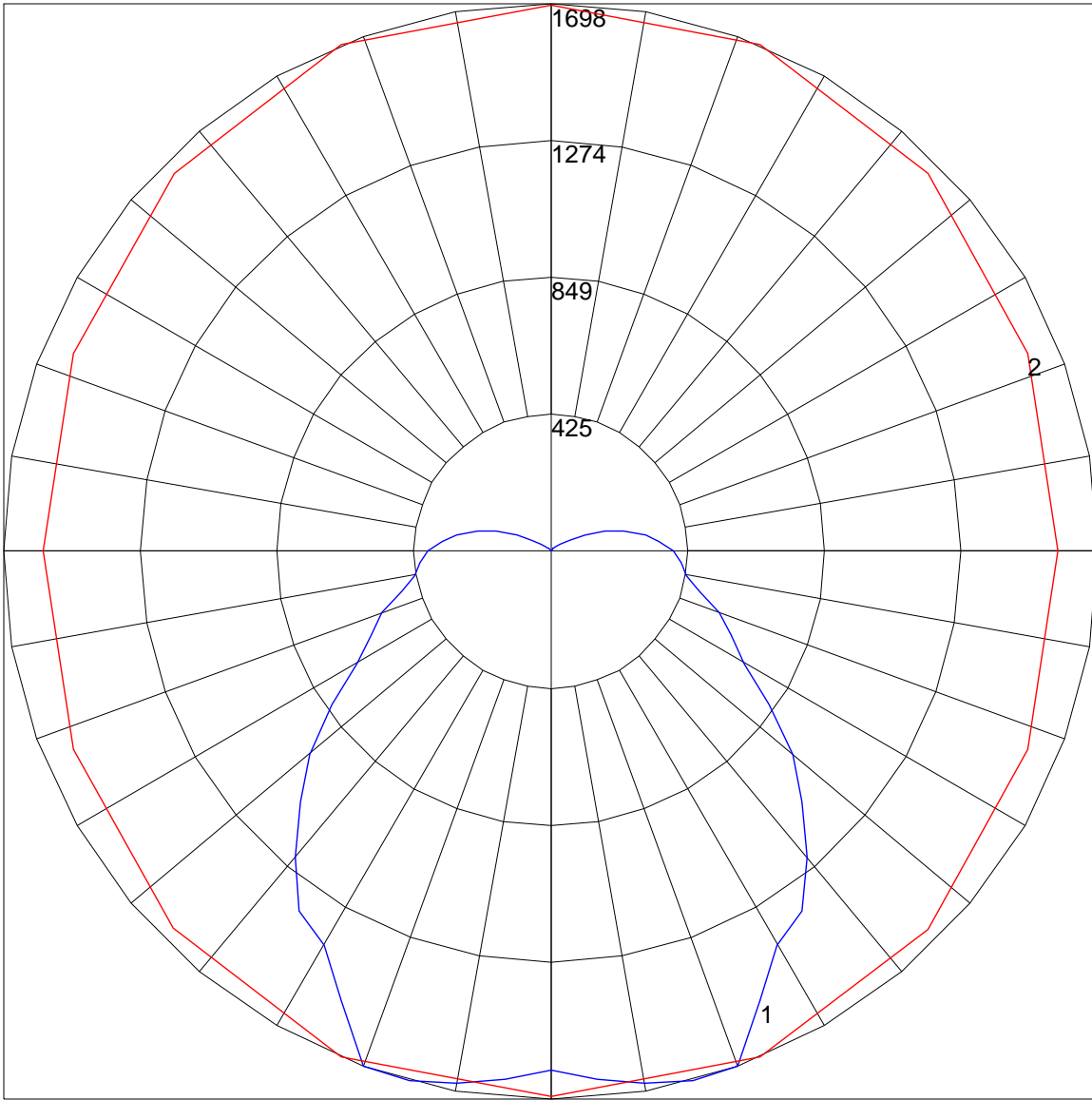
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 105 | 105 | 105 | 105 | 102 | 102 | 102 | 102 | 96 | 96 | 96 | 90 | 90 | 90 | 85 | 85 | 85 | 82 |
| 1 | 95 | 90 | 86 | 82 | 92 | 87 | 83 | 80 | 82 | 79 | 76 | 77 | 75 | 72 | 73 | 71 | 69 | 66 |
| 2 | 86 | 78 | 72 | 66 | 83 | 76 | 70 | 65 | 71 | 67 | 62 | 67 | 63 | 60 | 64 | 60 | 57 | 55 |
| 3 | 78 | 69 | 61 | 55 | 76 | 67 | 60 | 54 | 63 | 57 | 52 | 59 | 54 | 50 | 56 | 52 | 49 | 46 |
| 4 | 72 | 61 | 53 | 47 | 69 | 59 | 52 | 46 | 56 | 50 | 45 | 53 | 48 | 43 | 50 | 46 | 42 | 40 |
| 5 | 66 | 54 | 46 | 40 | 64 | 53 | 45 | 40 | 50 | 44 | 39 | 48 | 42 | 37 | 45 | 40 | 36 | 34 |
| 6 | 61 | 49 | 41 | 35 | 59 | 48 | 40 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 41 | 36 | 32 | 30 |
| 7 | 57 | 44 | 37 | 31 | 55 | 43 | 36 | 31 | 41 | 35 | 30 | 39 | 34 | 29 | 38 | 32 | 29 | 27 |
| 8 | 53 | 41 | 33 | 28 | 51 | 40 | 32 | 27 | 38 | 31 | 27 | 36 | 30 | 26 | 35 | 29 | 26 | 24 |
| 9 | 49 | 37 | 30 | 25 | 48 | 36 | 29 | 25 | 35 | 29 | 24 | 33 | 28 | 24 | 32 | 27 | 23 | 21 |
| 10 | 46 | 34 | 27 | 23 | 45 | 34 | 27 | 22 | 32 | 26 | 22 | 31 | 25 | 21 | 30 | 25 | 21 | 19 |

POLAR GRAPH



Maximum Candela = 1698 Located At Horizontal Angle = 67.5, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)