



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GP4WA132UNIN.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE]DATE]
 [TEST]BALLABS8589.0
 [TESTLAB]BALLABS
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS
 [LUMCAT]GP4WA132UNIN
 [LUMINAIRE]GENERAL PURPOSE STRIP 4' 32W T8 1-LAMP NBF
 [LAMP](1) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]GE GE-232-MAX-N/ULTRA
 [_ MOUNTING]SURFACE
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS= 31 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED 9.17

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Total Rated Lamp Lumens | 2950 |
| Total Luminaire Efficiency | 97.8 % |
| Luminaire Efficacy Rating (LER) | 93 |
| Total Luminaire Watts | 31 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criteria (0-180) | 1.26 |
| Spacing Criteria (90-270) | 1.60 |
| Spacing Criteria (Diagonal) | 1.58 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.23 ft |
| Luminous Height | 0.13 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 4869 | 4829 | 5433 |
| 55 | 4410 | 4909 | 5681 |
| 65 | 3720 | 4947 | 6006 |
| 75 | 2743 | 5076 | 6213 |
| 85 | 1068 | 5443 | 6975 |

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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 | 485 | 485 | 485 | 485 | 485 |
| 5 | 489 | 487 | 489 | 492 | 492 |
| 10 | 489 | 489 | 493 | 500 | 503 |
| 15 | 481 | 485 | 496 | 506 | 511 |
| 20 | 450 | 456 | 474 | 492 | 500 |
| 25 | 442 | 453 | 477 | 501 | 511 |
| 30 | 406 | 424 | 460 | 489 | 501 |
| 35 | 387 | 411 | 451 | 493 | 511 |
| 40 | 343 | 372 | 426 | 479 | 503 |
| 45 | 309 | 348 | 416 | 485 | 513 |
| 50 | 267 | 311 | 395 | 469 | 500 |
| 55 | 230 | 284 | 385 | 468 | 500 |
| 60 | 190 | 251 | 361 | 447 | 482 |
| 65 | 146 | 221 | 338 | 434 | 474 |
| 70 | 104 | 188 | 313 | 414 | 451 |
| 75 | 69 | 154 | 285 | 380 | 419 |
| 80 | 35 | 122 | 256 | 358 | 398 |
| 85 | 11 | 95 | 230 | 335 | 376 |
| 90 | 0 | 82 | 217 | 321 | 359 |
| 95 | 0 | 82 | 216 | 319 | 359 |
| 100 | 0 | 88 | 222 | 324 | 363 |
| 105 | 0 | 66 | 229 | 322 | 361 |
| 110 | 0 | 37 | 216 | 330 | 366 |
| 115 | 0 | 12 | 169 | 306 | 358 |
| 120 | 0 | 0 | 124 | 250 | 300 |
| 125 | 0 | 0 | 77 | 188 | 235 |
| 130 | 0 | 0 | 37 | 125 | 164 |
| 135 | 0 | 0 | 8 | 74 | 108 |
| 140 | 0 | 0 | 0 | 27 | 53 |
| 145 | 0 | 0 | 0 | 6 | 11 |
| 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 | 403.43 | 13.7 | 14 |
| 0-40 | 683.24 | 23.2 | 23.7 |
| 0-60 | 1335.13 | 45.3 | 46.3 |
| 0-90 | 2175.12 | 73.7 | 75.4 |
| 90-120 | 591.79 | 20.1 | 20.5 |
| 90-130 | 678.23 | 23 | 23.5 |
| 90-150 | 709.33 | 24 | 24.6 |
| 90-180 | 709.33 | 24 | 24.6 |
| 0-180 | 2884.45 | 97.8 | 100 |

Total Luminaire Efficiency = 97.8%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 46.86 |
| 10-20 | 138.68 |
| 20-30 | 217.89 |
| 30-40 | 279.81 |
| 40-50 | 318.12 |
| 50-60 | 333.77 |
| 60-70 | 321.94 |
| 70-80 | 282.21 |
| 80-90 | 235.83 |
| 90-100 | 218.75 |
| 100-110 | 210.07 |
| 110-120 | 162.97 |
| 120-130 | 86.44 |
| 130-140 | 27.97 |
| 140-150 | 3.13 |
| 150-160 | 0 |
| 160-170 | 0 |
| 170-180 | 0 |

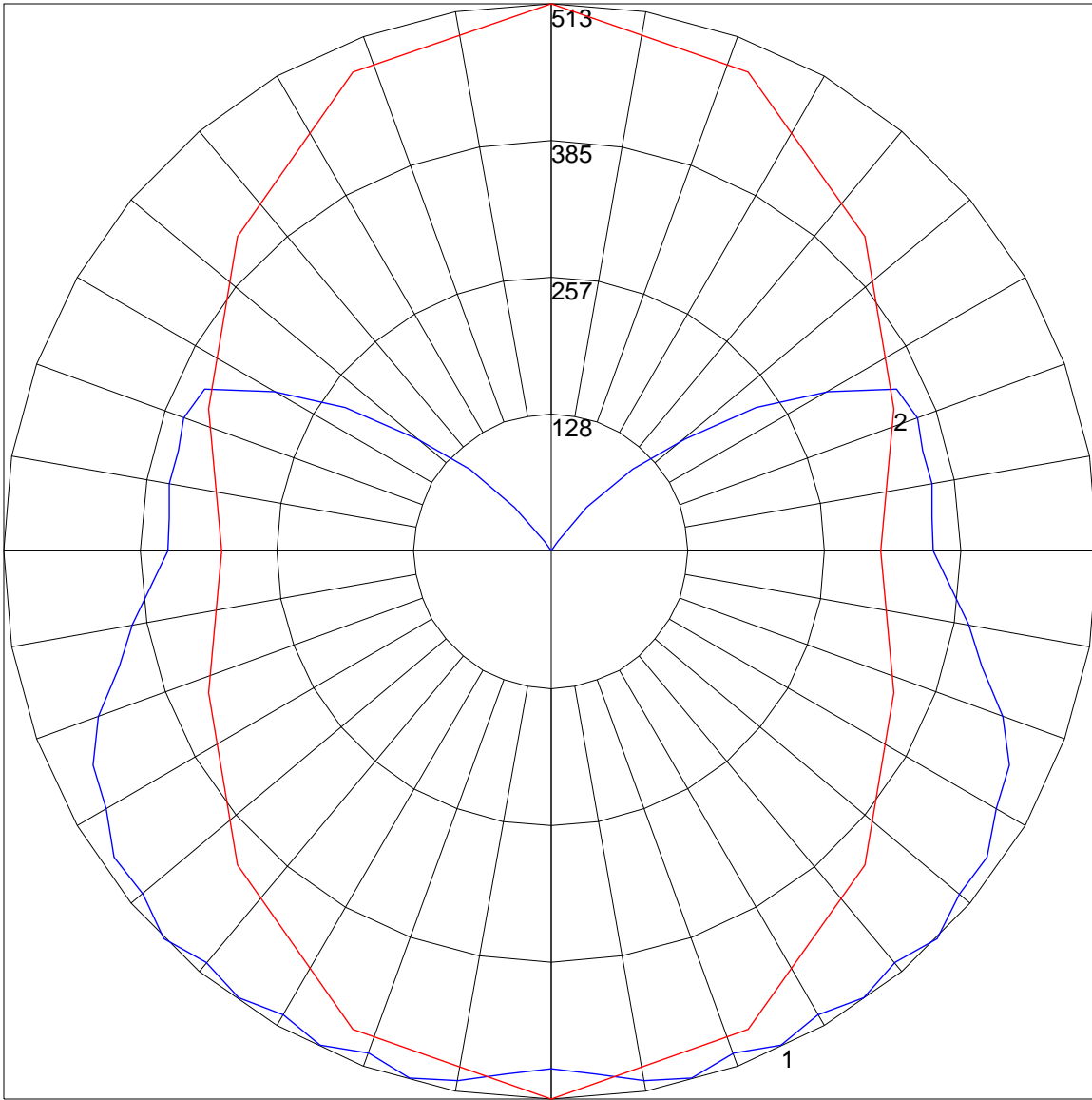
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 86 | 86 | 86 | 78 | 78 | 78 | 74 |
| 1 | 97 | 91 | 86 | 81 | 92 | 87 | 82 | 78 | 78 | 74 | 71 | 70 | 67 | 64 | 63 | 60 | 58 | 54 |
| 2 | 87 | 78 | 70 | 63 | 82 | 74 | 67 | 61 | 66 | 61 | 56 | 59 | 55 | 51 | 53 | 49 | 46 | 43 |
| 3 | 79 | 67 | 58 | 51 | 74 | 64 | 56 | 49 | 57 | 51 | 45 | 51 | 46 | 41 | 46 | 41 | 38 | 34 |
| 4 | 72 | 59 | 49 | 42 | 67 | 56 | 47 | 41 | 50 | 43 | 38 | 45 | 39 | 34 | 40 | 35 | 31 | 28 |
| 5 | 65 | 52 | 43 | 36 | 62 | 49 | 41 | 34 | 45 | 37 | 32 | 40 | 34 | 29 | 36 | 31 | 27 | 24 |
| 6 | 60 | 46 | 37 | 31 | 57 | 44 | 36 | 30 | 40 | 33 | 27 | 36 | 30 | 25 | 32 | 27 | 23 | 21 |
| 7 | 56 | 42 | 33 | 27 | 52 | 40 | 32 | 26 | 36 | 29 | 24 | 33 | 27 | 22 | 29 | 24 | 20 | 18 |
| 8 | 52 | 38 | 29 | 23 | 49 | 36 | 28 | 23 | 33 | 26 | 21 | 30 | 24 | 20 | 27 | 22 | 18 | 16 |
| 9 | 48 | 35 | 26 | 21 | 45 | 33 | 25 | 20 | 30 | 23 | 19 | 27 | 22 | 17 | 25 | 20 | 16 | 14 |
| 10 | 45 | 32 | 24 | 19 | 42 | 30 | 23 | 18 | 28 | 21 | 17 | 25 | 20 | 16 | 23 | 18 | 15 | 13 |

POLAR GRAPH



Maximum Candela = 513 Located At Horizontal Angle = 90, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)