

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L032411905
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 3/27/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSS121-44-35-ND-L: 3700 luminaire lumens (~1003 lm/ft.)
 [LUMINAIRE] Asymmetric cove mount LED luminaire
 [BALLASTCAT] XI075C200V054BPT1
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-19

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3700 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 79 |
| Total Luminaire Watts | 47.1 |
| Ballast Factor | 1.00 |
| CIE Type | Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.33 ft |
| Luminous Width (90-270) | 3.67 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 88 | 88 | 75 |
| 55 | 155 | 155 | 139 |
| 65 | 294 | 420 | 294 |
| 75 | 412 | 618 | 549 |
| 85 | 3668 | 3056 | 1936 |

CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|-------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5.0 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 |
| 7.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 7 |
| 10.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 12.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 15.0 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| 17.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 20.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 22.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 25.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 27.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 30.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 32.5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 |
| 35.0 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 37.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 40.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 42.5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 45.0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 47.5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 50.0 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 8 | 8 | 8 |
| 52.5 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 9 | 8 |
| 55.0 | 10 | 10 | 10 | 11 | 10 | 11 | 11 | 11 | 11 | 10 |
| 57.5 | 11 | 11 | 11 | 11 | 12 | 12 | 13 | 13 | 13 | 13 |
| 60.0 | 12 | 11 | 11 | 13 | 14 | 14 | 15 | 14 | 14 | 15 |
| 62.5 | 13 | 14 | 13 | 14 | 14 | 15 | 17 | 17 | 17 | 17 |
| 65.0 | 14 | 14 | 14 | 14 | 15 | 15 | 16 | 17 | 21 | 20 |
| 67.5 | 16 | 16 | 16 | 16 | 17 | 17 | 16 | 16 | 19 | 23 |
| 70.0 | 17 | 17 | 17 | 17 | 18 | 18 | 18 | 17 | 17 | 19 |
| 72.5 | 17 | 17 | 17 | 19 | 20 | 20 | 19 | 18 | 18 | 18 |
| 75.0 | 12 | 13 | 15 | 18 | 22 | 24 | 21 | 21 | 19 | 18 |
| 77.5 | 9 | 9 | 11 | 14 | 17 | 24 | 21 | 24 | 27 | 27 |
| 80.0 | 12 | 12 | 13 | 16 | 19 | 20 | 17 | 23 | 22 | 24 |
| 82.5 | 22 | 22 | 22 | 24 | 25 | 24 | 24 | 24 | 21 | 21 |
| 85.0 | 36 | 36 | 37 | 38 | 40 | 40 | 39 | 37 | 33 | 30 |
| 87.5 | 71 | 71 | 71 | 72 | 73 | 72 | 72 | 69 | 65 | 60 |
| 90.0 | 128 | 129 | 134 | 135 | 138 | 143 | 155 | 176 | 215 | 274 |
| 92.5 | 1322 | 1316 | 1312 | 1290 | 1261 | 1213 | 1150 | 1060 | 964 | 858 |
| 95.0 | 1619 | 1618 | 1604 | 1572 | 1530 | 1474 | 1403 | 1303 | 1194 | 1075 |
| 97.5 | 1847 | 1854 | 1831 | 1788 | 1743 | 1669 | 1576 | 1475 | 1360 | 1225 |
| 100.0 | 1999 | 2012 | 1971 | 1942 | 1889 | 1802 | 1685 | 1535 | 1364 | 1217 |
| 102.5 | 2038 | 2052 | 2002 | 1971 | 1862 | 1774 | 1652 | 1506 | 1342 | 1223 |
| 105.0 | 2070 | 2083 | 2047 | 1989 | 1888 | 1775 | 1656 | 1534 | 1416 | 1290 |
| 107.5 | 2160 | 2135 | 2101 | 2037 | 1949 | 1850 | 1739 | 1612 | 1459 | 1293 |
| 110.0 | 2214 | 2192 | 2151 | 2092 | 2020 | 1927 | 1776 | 1613 | 1433 | 1274 |
| 112.5 | 2225 | 2208 | 2125 | 2087 | 1988 | 1878 | 1715 | 1550 | 1401 | 1237 |
| 115.0 | 2107 | 2092 | 2065 | 1983 | 1878 | 1755 | 1635 | 1491 | 1336 | 1189 |
| 117.5 | 1974 | 1969 | 1943 | 1870 | 1780 | 1658 | 1538 | 1413 | 1293 | 1150 |
| 120.0 | 1813 | 1831 | 1809 | 1751 | 1666 | 1556 | 1446 | 1333 | 1227 | 1118 |
| 122.5 | 1685 | 1697 | 1676 | 1630 | 1553 | 1471 | 1376 | 1273 | 1175 | 1081 |
| 125.0 | 1570 | 1580 | 1567 | 1520 | 1459 | 1394 | 1309 | 1216 | 1125 | 1039 |
| 127.5 | 1487 | 1486 | 1467 | 1427 | 1370 | 1316 | 1248 | 1163 | 1077 | 1000 |
| 130.0 | 1409 | 1405 | 1386 | 1341 | 1297 | 1242 | 1181 | 1109 | 1035 | 953 |
| 132.5 | 1331 | 1328 | 1310 | 1266 | 1226 | 1172 | 1112 | 1057 | 985 | 918 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|-----|-----|
| 135.0 | 1261 | 1252 | 1235 | 1192 | 1161 | 1112 | 1062 | 1007 | 944 | 883 |
| 137.5 | 1198 | 1182 | 1166 | 1128 | 1099 | 1056 | 1013 | 962 | 909 | 843 |
| 140.0 | 1130 | 1120 | 1108 | 1072 | 1040 | 1007 | 966 | 920 | 870 | 813 |
| 142.5 | 1080 | 1066 | 1051 | 1026 | 994 | 963 | 925 | 884 | 838 | 783 |
| 145.0 | 1021 | 1010 | 1001 | 978 | 950 | 921 | 886 | 846 | 800 | 765 |
| 147.5 | 967 | 959 | 947 | 927 | 904 | 883 | 854 | 810 | 772 | 745 |
| 150.0 | 921 | 911 | 899 | 882 | 864 | 845 | 820 | 783 | 749 | 724 |
| 152.5 | 870 | 862 | 855 | 843 | 828 | 808 | 784 | 755 | 729 | 707 |
| 155.0 | 828 | 820 | 815 | 806 | 790 | 774 | 750 | 727 | 703 | 657 |
| 157.5 | 788 | 781 | 776 | 766 | 750 | 733 | 708 | 680 | 643 | 612 |
| 160.0 | 740 | 731 | 725 | 718 | 713 | 702 | 673 | 636 | 600 | 561 |
| 162.5 | 686 | 685 | 685 | 679 | 670 | 641 | 600 | 564 | 539 | 520 |
| 165.0 | 651 | 647 | 644 | 635 | 612 | 572 | 540 | 519 | 511 | 515 |
| 167.5 | 616 | 613 | 607 | 586 | 543 | 517 | 492 | 495 | 504 | 512 |
| 170.0 | 574 | 572 | 560 | 510 | 479 | 466 | 477 | 485 | 488 | 482 |
| 172.5 | 523 | 511 | 452 | 419 | 413 | 431 | 447 | 447 | 443 | 435 |
| 175.0 | 387 | 344 | 318 | 317 | 343 | 355 | 352 | 340 | 329 | 317 |
| 177.5 | 143 | 137 | 151 | 167 | 184 | 189 | 190 | 194 | 197 | 200 |
| 180.0 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 |

Vert. Angles **Horizontal Angles**

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> | <u>95</u> |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7.5 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 10.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 12.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 15.0 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 5 | 6 |
| 17.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 20.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 22.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 25.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 27.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 30.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 32.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 35.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 37.5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 40.0 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| 42.5 | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 |
| 45.0 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 47.5 | 8 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 |
| 50.0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 52.5 | 8 | 8 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 |
| 55.0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 9 |
| 57.5 | 11 | 11 | 11 | 12 | 11 | 11 | 11 | 11 | 11 | 11 |
| 60.0 | 15 | 13 | 13 | 13 | 13 | 12 | 11 | 11 | 11 | 11 |
| 62.5 | 18 | 18 | 15 | 14 | 14 | 13 | 13 | 12 | 12 | 13 |
| 65.0 | 21 | 22 | 20 | 16 | 15 | 14 | 14 | 14 | 14 | 14 |
| 67.5 | 25 | 27 | 26 | 21 | 16 | 16 | 15 | 14 | 14 | 14 |
| 70.0 | 27 | 30 | 30 | 27 | 20 | 17 | 16 | 15 | 15 | 15 |
| 72.5 | 21 | 29 | 33 | 33 | 30 | 19 | 17 | 16 | 16 | 15 |
| 75.0 | 18 | 21 | 29 | 37 | 34 | 27 | 18 | 17 | 16 | 16 |
| 77.5 | 25 | 20 | 21 | 27 | 37 | 34 | 24 | 19 | 17 | 17 |
| 80.0 | 25 | 28 | 31 | 21 | 25 | 35 | 32 | 21 | 18 | 17 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 82.5 | 21 | 22 | 24 | 23 | 21 | 23 | 31 | 24 | 19 | 17 |
| 85.0 | 28 | 25 | 23 | 22 | 23 | 21 | 23 | 24 | 19 | 17 |
| 87.5 | 54 | 46 | 43 | 37 | 32 | 29 | 29 | 38 | 21 | 20 |
| 90.0 | 317 | 320 | 278 | 238 | 197 | 145 | 93 | 49 | 29 | 27 |
| 92.5 | 756 | 648 | 543 | 434 | 324 | 217 | 122 | 63 | 42 | 39 |
| 95.0 | 946 | 819 | 666 | 481 | 348 | 235 | 129 | 75 | 53 | 48 |
| 97.5 | 1049 | 867 | 678 | 530 | 389 | 246 | 140 | 84 | 65 | 59 |
| 100.0 | 1058 | 920 | 775 | 584 | 418 | 275 | 177 | 116 | 85 | 79 |
| 102.5 | 1118 | 988 | 808 | 611 | 434 | 311 | 216 | 151 | 113 | 109 |
| 105.0 | 1134 | 962 | 785 | 616 | 530 | 367 | 269 | 205 | 152 | 148 |
| 107.5 | 1132 | 969 | 808 | 673 | 584 | 431 | 342 | 271 | 212 | 207 |
| 110.0 | 1115 | 962 | 832 | 705 | 616 | 479 | 404 | 334 | 275 | 271 |
| 112.5 | 1088 | 952 | 829 | 729 | 651 | 535 | 457 | 382 | 317 | 309 |
| 115.0 | 1064 | 943 | 820 | 715 | 657 | 542 | 474 | 394 | 329 | 324 |
| 117.5 | 1028 | 916 | 813 | 724 | 632 | 555 | 485 | 404 | 339 | 332 |
| 120.0 | 1007 | 905 | 815 | 719 | 638 | 568 | 495 | 416 | 347 | 342 |
| 122.5 | 981 | 882 | 803 | 723 | 643 | 563 | 501 | 415 | 341 | 337 |
| 125.0 | 947 | 862 | 788 | 719 | 647 | 571 | 515 | 428 | 349 | 342 |
| 127.5 | 920 | 848 | 780 | 705 | 638 | 564 | 499 | 422 | 335 | 323 |
| 130.0 | 878 | 813 | 752 | 686 | 629 | 553 | 480 | 403 | 314 | 307 |
| 132.5 | 841 | 782 | 733 | 673 | 611 | 542 | 476 | 397 | 301 | 291 |
| 135.0 | 818 | 758 | 714 | 649 | 592 | 495 | 422 | 343 | 255 | 250 |
| 137.5 | 792 | 737 | 673 | 614 | 555 | 488 | 426 | 351 | 262 | 253 |
| 140.0 | 769 | 725 | 671 | 607 | 547 | 490 | 431 | 355 | 264 | 249 |
| 142.5 | 749 | 701 | 660 | 603 | 543 | 490 | 431 | 342 | 256 | 241 |
| 145.0 | 727 | 697 | 646 | 597 | 534 | 489 | 433 | 348 | 256 | 240 |
| 147.5 | 714 | 672 | 629 | 586 | 527 | 480 | 428 | 345 | 247 | 235 |
| 150.0 | 697 | 663 | 612 | 558 | 513 | 465 | 417 | 341 | 237 | 235 |
| 152.5 | 666 | 627 | 574 | 532 | 496 | 456 | 402 | 325 | 224 | 224 |
| 155.0 | 622 | 585 | 542 | 508 | 477 | 434 | 385 | 291 | 207 | 212 |
| 157.5 | 579 | 549 | 514 | 485 | 467 | 438 | 388 | 287 | 197 | 205 |
| 160.0 | 536 | 514 | 501 | 493 | 476 | 430 | 383 | 277 | 191 | 201 |
| 162.5 | 521 | 517 | 505 | 489 | 458 | 423 | 366 | 263 | 186 | 193 |
| 165.0 | 516 | 508 | 498 | 482 | 454 | 418 | 339 | 233 | 186 | 186 |
| 167.5 | 511 | 497 | 477 | 456 | 430 | 378 | 296 | 214 | 186 | 188 |
| 170.0 | 470 | 456 | 441 | 418 | 374 | 317 | 255 | 202 | 181 | 180 |
| 172.5 | 422 | 400 | 373 | 341 | 304 | 266 | 227 | 197 | 184 | 183 |
| 175.0 | 302 | 285 | 268 | 251 | 232 | 218 | 208 | 198 | 190 | 186 |
| 177.5 | 201 | 202 | 203 | 202 | 202 | 202 | 204 | 202 | 199 | 198 |
| 180.0 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 |

Vert. Horizontal Angles

| | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7.5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 7 | 7 |
| 10.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 12.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 15.0 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| 17.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 20.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 22.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 25.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 27.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 32.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 |
| 35.0 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| 37.5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 |
| 40.0 | 5 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 |
| 42.5 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 |
| 45.0 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| 47.5 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |
| 50.0 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 10 | 10 |
| 52.5 | 9 | 9 | 8 | 9 | 9 | 9 | 10 | 10 | 10 | 11 |
| 55.0 | 10 | 10 | 10 | 9 | 10 | 10 | 10 | 11 | 11 | 11 |
| 57.5 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 60.0 | 12 | 12 | 12 | 13 | 11 | 11 | 11 | 11 | 11 | 11 |
| 62.5 | 13 | 14 | 14 | 14 | 13 | 12 | 12 | 12 | 12 | 13 |
| 65.0 | 14 | 14 | 14 | 14 | 14 | 13 | 12 | 13 | 13 | 13 |
| 67.5 | 15 | 15 | 16 | 15 | 15 | 14 | 13 | 13 | 14 | 14 |
| 70.0 | 15 | 16 | 16 | 16 | 15 | 14 | 13 | 13 | 14 | 14 |
| 72.5 | 16 | 16 | 16 | 16 | 14 | 13 | 13 | 13 | 14 | 14 |
| 75.0 | 16 | 16 | 16 | 16 | 13 | 13 | 13 | 14 | 14 | 14 |
| 77.5 | 16 | 16 | 16 | 15 | 13 | 13 | 14 | 14 | 14 | 14 |
| 80.0 | 17 | 17 | 16 | 14 | 13 | 13 | 13 | 14 | 14 | 14 |
| 82.5 | 18 | 17 | 16 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 85.0 | 20 | 20 | 17 | 14 | 14 | 14 | 14 | 14 | 15 | 15 |
| 87.5 | 21 | 23 | 17 | 15 | 16 | 17 | 17 | 17 | 18 | 19 |
| 90.0 | 30 | 30 | 19 | 15 | 15 | 16 | 17 | 17 | 18 | 19 |
| 92.5 | 39 | 43 | 28 | 21 | 17 | 15 | 15 | 15 | 15 | 16 |
| 95.0 | 46 | 49 | 43 | 33 | 30 | 27 | 24 | 20 | 17 | 16 |
| 97.5 | 56 | 55 | 59 | 39 | 36 | 37 | 37 | 37 | 34 | 31 |
| 100.0 | 74 | 68 | 68 | 58 | 43 | 43 | 43 | 43 | 44 | 44 |
| 102.5 | 100 | 91 | 86 | 84 | 52 | 50 | 50 | 49 | 49 | 50 |
| 105.0 | 137 | 127 | 116 | 105 | 76 | 62 | 59 | 59 | 59 | 59 |
| 107.5 | 195 | 178 | 162 | 145 | 115 | 80 | 71 | 70 | 69 | 69 |
| 110.0 | 261 | 234 | 208 | 189 | 158 | 129 | 89 | 84 | 83 | 82 |
| 112.5 | 297 | 267 | 234 | 212 | 174 | 144 | 107 | 101 | 99 | 98 |
| 115.0 | 318 | 290 | 253 | 228 | 187 | 153 | 125 | 120 | 117 | 115 |
| 117.5 | 334 | 313 | 278 | 252 | 207 | 170 | 144 | 139 | 136 | 134 |
| 120.0 | 342 | 317 | 288 | 256 | 212 | 177 | 165 | 160 | 156 | 154 |
| 122.5 | 341 | 328 | 297 | 262 | 219 | 193 | 186 | 181 | 177 | 174 |
| 125.0 | 349 | 341 | 309 | 274 | 225 | 215 | 208 | 202 | 198 | 194 |
| 127.5 | 332 | 323 | 293 | 261 | 247 | 237 | 230 | 223 | 218 | 215 |
| 130.0 | 322 | 311 | 288 | 278 | 268 | 259 | 251 | 244 | 239 | 235 |
| 132.5 | 301 | 301 | 307 | 298 | 289 | 280 | 272 | 265 | 259 | 255 |
| 135.0 | 288 | 311 | 322 | 318 | 310 | 300 | 292 | 285 | 278 | 274 |
| 137.5 | 292 | 319 | 333 | 335 | 328 | 319 | 311 | 304 | 297 | 293 |
| 140.0 | 294 | 326 | 342 | 350 | 346 | 339 | 329 | 323 | 316 | 311 |
| 142.5 | 292 | 328 | 350 | 361 | 362 | 356 | 348 | 341 | 334 | 329 |
| 145.0 | 293 | 329 | 357 | 367 | 375 | 372 | 366 | 359 | 352 | 348 |
| 147.5 | 292 | 323 | 357 | 372 | 383 | 387 | 382 | 376 | 370 | 364 |
| 150.0 | 287 | 328 | 351 | 371 | 384 | 396 | 397 | 392 | 387 | 382 |
| 152.5 | 270 | 319 | 345 | 365 | 380 | 392 | 402 | 406 | 402 | 399 |
| 155.0 | 256 | 313 | 332 | 357 | 374 | 387 | 395 | 406 | 412 | 413 |
| 157.5 | 247 | 303 | 329 | 346 | 364 | 379 | 388 | 396 | 404 | 416 |
| 160.0 | 223 | 279 | 329 | 347 | 361 | 372 | 376 | 386 | 396 | 402 |
| 162.5 | 205 | 250 | 302 | 342 | 356 | 368 | 373 | 374 | 377 | 388 |
| 165.0 | 199 | 219 | 265 | 313 | 345 | 354 | 362 | 367 | 369 | 370 |
| 167.5 | 198 | 205 | 224 | 261 | 301 | 333 | 346 | 352 | 355 | 355 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 170.0 | 186 | 195 | 201 | 215 | 242 | 271 | 297 | 320 | 337 | 339 |
| 172.5 | 185 | 190 | 197 | 201 | 203 | 212 | 227 | 241 | 254 | 269 |
| 175.0 | 186 | 186 | 186 | 186 | 186 | 187 | 189 | 192 | 194 | 196 |
| 177.5 | 196 | 195 | 193 | 192 | 191 | 190 | 189 | 188 | 186 | 183 |
| 180.0 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 | 212 |

Vert. Angles **Horizontal Angles**

| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
|--------------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 2.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7.5 | 7 | 7 | 6 | 6 | 6 | 6 | 6 |
| 10.0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 12.5 | 6 | 6 | 6 | 6 | 6 | 5 | 5 |
| 15.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 17.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 20.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 22.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 25.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 27.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 30.0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 32.5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 35.0 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| 37.5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 40.0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 42.5 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |
| 45.0 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 47.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 50.0 | 10 | 10 | 11 | 10 | 11 | 11 | 11 |
| 52.5 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 55.0 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 57.5 | 11 | 11 | 11 | 11 | 11 | 11 | 12 |
| 60.0 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 62.5 | 13 | 13 | 13 | 14 | 13 | 13 | 14 |
| 65.0 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 67.5 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 70.0 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 72.5 | 14 | 14 | 14 | 14 | 15 | 15 | 15 |
| 75.0 | 14 | 14 | 14 | 15 | 15 | 15 | 15 |
| 77.5 | 14 | 14 | 15 | 15 | 15 | 15 | 15 |
| 80.0 | 14 | 15 | 15 | 15 | 15 | 16 | 16 |
| 82.5 | 15 | 15 | 15 | 16 | 16 | 16 | 16 |
| 85.0 | 16 | 17 | 17 | 17 | 17 | 17 | 17 |
| 87.5 | 20 | 21 | 21 | 21 | 22 | 22 | 23 |
| 90.0 | 20 | 21 | 21 | 22 | 22 | 23 | 23 |
| 92.5 | 17 | 17 | 17 | 18 | 18 | 18 | 18 |
| 95.0 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 97.5 | 27 | 23 | 21 | 18 | 17 | 16 | 16 |
| 100.0 | 44 | 43 | 43 | 42 | 41 | 40 | 40 |
| 102.5 | 51 | 52 | 52 | 52 | 52 | 54 | 56 |
| 105.0 | 59 | 59 | 60 | 61 | 62 | 65 | 68 |
| 107.5 | 70 | 70 | 71 | 72 | 73 | 75 | 78 |
| 110.0 | 82 | 83 | 84 | 84 | 87 | 88 | 91 |
| 112.5 | 97 | 97 | 98 | 100 | 101 | 103 | 104 |
| 115.0 | 114 | 114 | 114 | 115 | 116 | 118 | 119 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|-----|
| 117.5 | 132 | 132 | 132 | 132 | 133 | 135 | 135 |
| 120.0 | 151 | 150 | 150 | 151 | 151 | 152 | 152 |
| 122.5 | 172 | 170 | 169 | 169 | 170 | 170 | 170 |
| 125.0 | 192 | 189 | 189 | 188 | 189 | 189 | 189 |
| 127.5 | 212 | 209 | 208 | 208 | 208 | 208 | 208 |
| 130.0 | 231 | 229 | 227 | 227 | 227 | 227 | 227 |
| 132.5 | 250 | 248 | 246 | 246 | 246 | 245 | 247 |
| 135.0 | 270 | 267 | 265 | 264 | 264 | 263 | 265 |
| 137.5 | 288 | 285 | 283 | 282 | 282 | 282 | 283 |
| 140.0 | 307 | 304 | 301 | 300 | 299 | 299 | 301 |
| 142.5 | 325 | 321 | 319 | 317 | 317 | 317 | 317 |
| 145.0 | 342 | 339 | 336 | 335 | 334 | 333 | 335 |
| 147.5 | 360 | 356 | 354 | 352 | 350 | 350 | 351 |
| 150.0 | 377 | 373 | 371 | 369 | 367 | 367 | 367 |
| 152.5 | 394 | 390 | 387 | 386 | 385 | 384 | 384 |
| 155.0 | 410 | 406 | 404 | 402 | 401 | 400 | 401 |
| 157.5 | 422 | 421 | 418 | 418 | 417 | 416 | 418 |
| 160.0 | 415 | 425 | 427 | 427 | 428 | 427 | 428 |
| 162.5 | 398 | 412 | 425 | 427 | 428 | 428 | 428 |
| 165.0 | 380 | 389 | 406 | 421 | 424 | 425 | 425 |
| 167.5 | 355 | 358 | 371 | 393 | 412 | 415 | 415 |
| 170.0 | 338 | 329 | 329 | 341 | 364 | 387 | 391 |
| 172.5 | 278 | 283 | 278 | 280 | 291 | 317 | 326 |
| 175.0 | 196 | 198 | 194 | 185 | 180 | 173 | 184 |
| 177.5 | 181 | 177 | 174 | 170 | 154 | 129 | 116 |
| 180.0 | 212 | 212 | 212 | 212 | 212 | 212 | 212 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 2.12 | N.A. | 0.10 |
| 0-30 | 4.44 | N.A. | 0.10 |
| 0-40 | 8.06 | N.A. | 0.20 |
| 0-60 | 23.21 | N.A. | 0.60 |
| 0-80 | 57.19 | N.A. | 1.50 |
| 0-90 | 95.07 | N.A. | 2.60 |
| 10-90 | 94.49 | N.A. | 2.60 |
| 20-40 | 5.94 | N.A. | 0.20 |
| 20-50 | 11.75 | N.A. | 0.30 |
| 40-70 | 30.07 | N.A. | 0.80 |
| 60-80 | 33.97 | N.A. | 0.90 |
| 70-80 | 19.06 | N.A. | 0.50 |
| 80-90 | 37.89 | N.A. | 1.00 |
| 90-110 | 1180.25 | N.A. | 31.90 |
| 90-120 | 1876.81 | N.A. | 50.70 |
| 90-130 | 2447.3 | N.A. | 66.10 |
| 90-150 | 3228.42 | N.A. | 87.30 |
| 90-180 | 3604.76 | N.A. | 97.40 |
| 110-180 | 2424.51 | N.A. | 65.50 |
| 0-180 | 3699.83 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 0.58 |
| 10-20 | 1.54 |
| 20-30 | 2.31 |
| 30-40 | 3.62 |
| 40-50 | 5.81 |
| 50-60 | 9.34 |
| 60-70 | 14.92 |
| 70-80 | 19.06 |
| 80-90 | 37.89 |
| 90-100 | 493.14 |
| 100-110 | 687.11 |
| 110-120 | 696.56 |
| 120-130 | 570.49 |
| 130-140 | 443.79 |
| 140-150 | 337.33 |
| 150-160 | 229.26 |
| 160-170 | 119.83 |
| 170-180 | 27.26 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | |
| 0 | 96 | 96 | 96 | 96 | 82 | 82 | 82 | 82 | 57 | 57 | 57 | 34 | 34 | 34 | 13 | 13 | 13 | 3 |
| 1 | 87 | 83 | 79 | 75 | 74 | 71 | 68 | 65 | 49 | 47 | 45 | 29 | 28 | 27 | 10 | 10 | 10 | 1 |
| 2 | 79 | 72 | 66 | 61 | 67 | 62 | 57 | 53 | 43 | 40 | 37 | 25 | 24 | 22 | 9 | 8 | 8 | 1 |
| 3 | 72 | 63 | 56 | 51 | 61 | 54 | 48 | 44 | 37 | 34 | 31 | 22 | 20 | 19 | 8 | 7 | 6 | 1 |
| 4 | 65 | 55 | 48 | 42 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 7 | 6 | 5 | 0 |
| 5 | 60 | 49 | 41 | 36 | 51 | 42 | 36 | 31 | 29 | 25 | 22 | 17 | 15 | 13 | 6 | 5 | 5 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 31 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 5 | 4 | 0 |
| 7 | 50 | 39 | 32 | 26 | 43 | 34 | 27 | 23 | 23 | 19 | 16 | 14 | 12 | 10 | 5 | 4 | 3 | 0 |
| 8 | 46 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 13 | 10 | 9 | 4 | 4 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 4 | 3 | 2 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L032411905.IES

UGR TABLE - CORRECTED

Reflectances

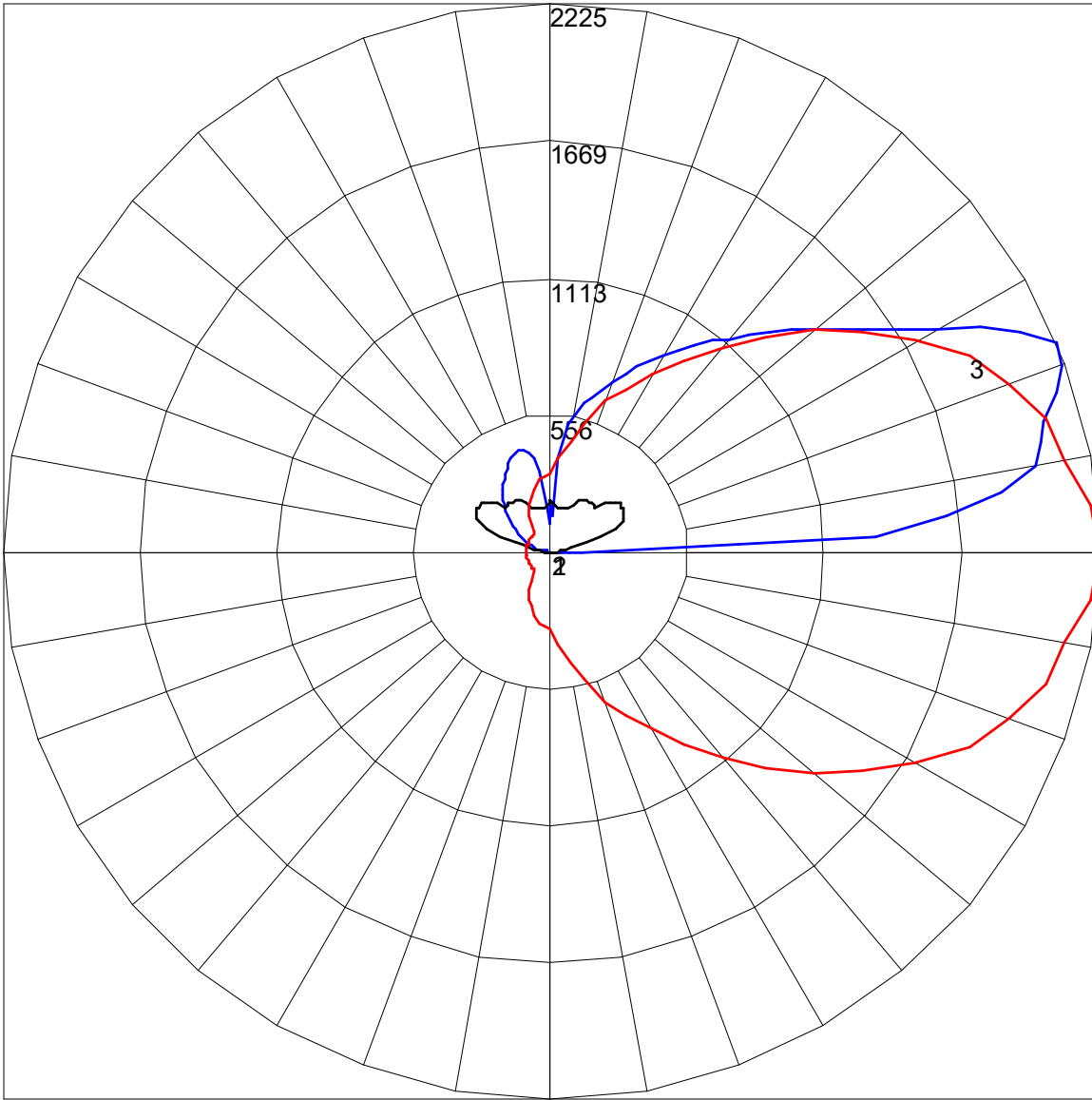
| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size

| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|-----|------|------|------|--------------------|-----|-----|-----|------|
| X=2H | Y=2H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 3H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 5.5 |
| | 12H | 4.7 | 5.1 | 6.0 | 6.3 | 8.2 | 4.5 | 4.5 | 4.9 | 5.2 | 7.1 |
| 4H | 2H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 3H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.9 | 4.5 | 4.5 | 4.9 | 5.2 | 7.0 |
| | 8H | 4.5 | 4.5 | 4.7 | 5.0 | 6.8 | 4.9 | 5.2 | 6.2 | 6.5 | 8.3 |
| | 12H | 6.9 | 7.2 | 8.2 | 8.5 | 10.3 | 6.3 | 6.6 | 7.6 | 7.8 | 9.7 |
| 8H | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.9 | 4.5 | 4.5 | 4.5 | 4.5 | 4.9 |
| | 6H | 4.5 | 4.5 | 4.8 | 5.0 | 6.9 | 4.5 | 4.7 | 5.8 | 6.0 | 7.9 |
| | 8H | 5.5 | 5.7 | 6.8 | 7.0 | 8.9 | 5.9 | 6.1 | 7.2 | 7.4 | 9.3 |
| | 12H | 9.1 | 9.3 | 10.4 | 10.6 | 12.5 | 7.6 | 7.7 | 8.9 | 9.0 | 10.9 |
| 12H | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 5.3 | 4.5 | 4.5 | 4.5 | 4.5 | 5.0 |
| | 6H | 4.5 | 4.5 | 5.3 | 5.6 | 7.4 | 4.7 | 4.9 | 6.0 | 6.2 | 8.1 |
| | 8H | 6.3 | 6.5 | 7.6 | 7.8 | 9.7 | 6.3 | 6.5 | 7.6 | 7.8 | 9.6 |

Maximum UGR = 12.5

POLAR GRAPH



Maximum Candela = 2225 Located At Horizontal Angle = 0, Vertical Angle = 112.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (112.5) (Through Max. Cd.)