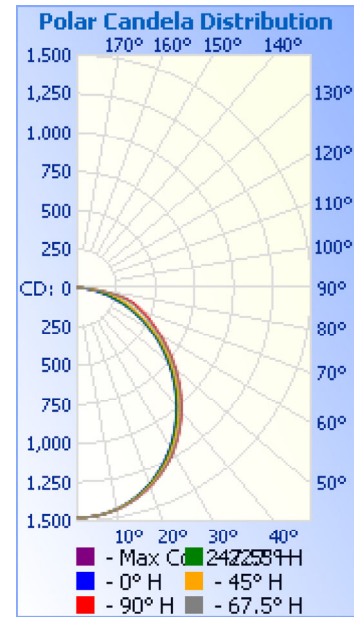


Photometrics Pro

Luminaire Photometric Report

Filename: Troffer 2x2 30W TR22DN - 120V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-TR22DN40-4000- 30 120V
Lamp Output: Total luminaire Lumens: 3985.1
Max Candela: 1,483.6 at Horizontal: 247.5°, Vertical: 1°
Input Wattage: 31.9
Luminous Opening: Point
Test Date: 2017-11-21
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 7 X 7

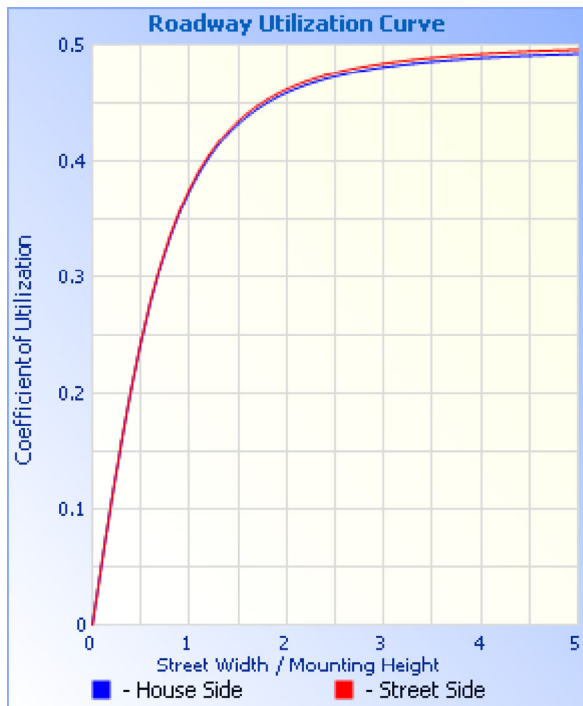
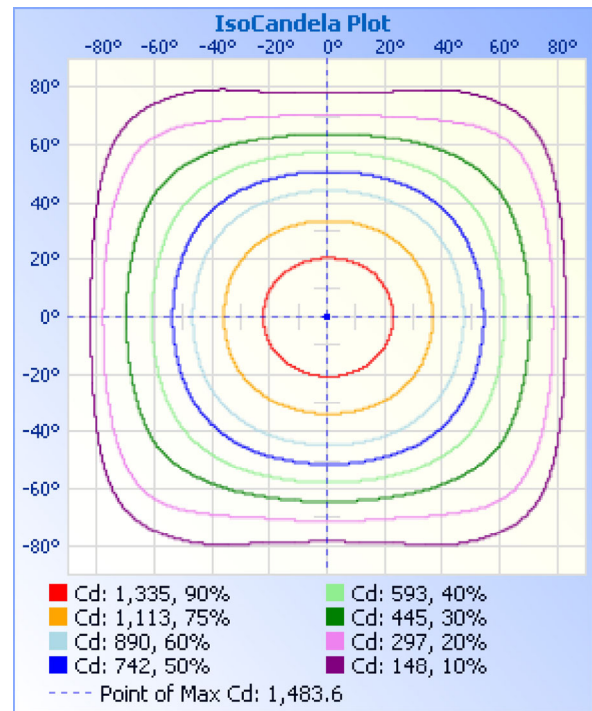
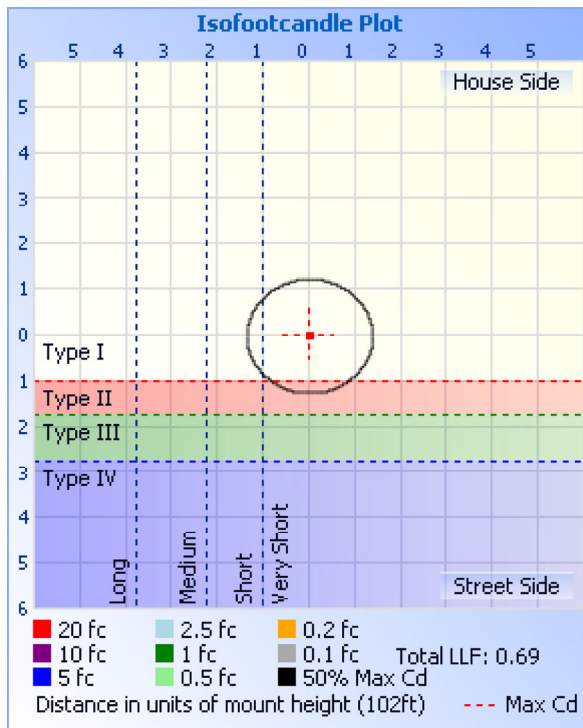


| Roadway Summary | | |
|------------------------|---------|--------|
| Cutoff Classification: | CUTOFF | |
| Distribution: | Type VS | |
| Max Cd, 90 Deg Vert: | 6.8 | |
| Max Cd, 80 to <90 Deg: | 243.7 | |
| | Lumens | % Lamp |
| Downward Street Side: | 2,000.3 | 50.2% |
| Downward House Side: | 1,985.1 | 49.8% |
| Downward Total: | 3,985.4 | 100% |
| Upward Street Side: | 0.0 | 0% |
| Upward House Side: | 0.1 | 0% |
| Upward Total: | 0.1 | 0% |
| Total Lumens: | 3,985.5 | 100% |

| Flood Summary | | | | |
|---------------|------------|---------|-------------------|-----------------|
| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
| Field (10%): | 98.6% | 3,929.9 | 165.2 | 156.2 |
| Beam (50%): | 67.1% | 2,675.0 | 108.2 | 101.9 |
| Total: | 100% | 3,984.2 | | |

| Zonal Lumen Summary | | |
|---------------------|---------|-------------|
| Zone | Lumens | % Luminaire |
| 0-30 | 1,129.5 | 28.3% |
| 0-40 | 1,824.6 | 45.8% |
| 0-60 | 3,134.4 | 78.7% |
| 60-90 | 850.6 | 21.3% |
| 70-100 | 382.0 | 9.6% |
| 90-120 | 0.1 | 0% |
| 0-90 | 3,985.0 | 100% |
| 90-180 | 0.1 | 0% |
| 0-180 | 3,985.1 | 100% |

| Lumens Per Zone | | | | | |
|-----------------|--------|---------|---------|--------|---------|
| Zone | Lumens | % Total | Zone | Lumens | % Total |
| 0-10 | 140.0 | 3.5% | 90-100 | 0.1 | 0% |
| 10-20 | 397.6 | 10.0% | 100-110 | 0 | 0% |
| 20-30 | 591.9 | 14.9% | 110-120 | 0 | 0% |
| 30-40 | 695.1 | 17.4% | 120-130 | 0 | 0% |
| 40-50 | 697.9 | 17.5% | 130-140 | 0 | 0% |
| 50-60 | 611.9 | 15.4% | 140-150 | 0 | 0% |
| 60-70 | 468.7 | 11.8% | 150-160 | 0 | 0% |
| 70-80 | 302.4 | 7.6% | 160-170 | 0 | 0% |
| 80-90 | 79.5 | 2.0% | 170-180 | 0 | 0% |



Illuminance at a Distance

| | Center Beam fc | Beam Width | |
|---------|----------------|------------|----------|
| 16.7ft | 5.32 fc | 41.2 ft | 46.2 ft |
| 33.3ft | 1.34 fc | 82.1 ft | 92.1 ft |
| 50.0ft | 0.59 fc | 123.3 ft | 138.3 ft |
| 66.7ft | 0.33 fc | 164.5 ft | 184.4 ft |
| 83.3ft | 0.21 fc | 205.4 ft | 230.3 ft |
| 100.0ft | 0.15 fc | 246.6 ft | 276.5 ft |

Vert. Spread: 101.9°
Horiz. Spread: 108.2°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RCC %: | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 20 | 50 | 30 | 20 | 50 | 30 | 20 | 0 |
| RCR: 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.00 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1 | 1.09 | 1.04 | 1.00 | .96 | 1.06 | 1.02 | .98 | .84 | .97 | .94 | .91 | .93 | .91 | .88 | .90 | .88 | .86 | .84 |
| 2 | .99 | .90 | .84 | .78 | .96 | .89 | .82 | .71 | .85 | .80 | .75 | .82 | .77 | .73 | .79 | .75 | .72 | .70 |
| 3 | .90 | .80 | .71 | .65 | .88 | .78 | .70 | .60 | .75 | .68 | .63 | .72 | .67 | .62 | .70 | .65 | .61 | .59 |

| | | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4 | .83 | .71 | .62 | .55 | .80 | .69 | .61 | .52 | .67 | .60 | .54 | .64 | .58 | .53 | .62 | .57 | .52 | .50 |
| 5 | .76 | .63 | .54 | .47 | .74 | .62 | .54 | .45 | .60 | .52 | .47 | .58 | .51 | .46 | .56 | .50 | .46 | .44 |
| 6 | .70 | .57 | .48 | .42 | .68 | .56 | .47 | .40 | .54 | .47 | .41 | .52 | .46 | .41 | .51 | .45 | .40 | .38 |
| 7 | .65 | .52 | .43 | .37 | .63 | .51 | .43 | .36 | .49 | .42 | .36 | .48 | .41 | .36 | .46 | .40 | .36 | .34 |
| 8 | .61 | .47 | .39 | .33 | .59 | .46 | .38 | .32 | .45 | .38 | .33 | .44 | .37 | .32 | .43 | .37 | .32 | .30 |
| 9 | .57 | .43 | .35 | .30 | .55 | .43 | .35 | .29 | .42 | .34 | .29 | .41 | .34 | .29 | .40 | .33 | .29 | .27 |
| 10 | .53 | .40 | .32 | .27 | .52 | .40 | .32 | .26 | .39 | .32 | .27 | .38 | .31 | .27 | .37 | .31 | .26 | .25 |

Candela Table - Type C

| | 0 | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | 360 |
|----|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 0 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 | 1484 |
| 1 | 1483 | 1484 | 1483 | 1483 | 1483 | 1483 | 1483 | 1483 | 1483 | 1484 | 1483 | 1484 | 1483 | 1483 | 1483 | 1483 | 1483 |
| 2 | 1482 | 1483 | 1483 | 1483 | 1482 | 1482 | 1482 | 1482 | 1481 | 1482 | 1482 | 1482 | 1483 | 1483 | 1483 | 1483 | 1482 |
| 3 | 1481 | 1481 | 1481 | 1481 | 1481 | 1481 | 1480 | 1480 | 1480 | 1480 | 1480 | 1480 | 1481 | 1481 | 1481 | 1481 | 1481 |
| 4 | 1478 | 1479 | 1479 | 1479 | 1479 | 1478 | 1477 | 1477 | 1477 | 1478 | 1478 | 1478 | 1479 | 1479 | 1479 | 1479 | 1478 |
| 5 | 1475 | 1476 | 1476 | 1477 | 1476 | 1476 | 1474 | 1474 | 1473 | 1474 | 1475 | 1476 | 1476 | 1476 | 1476 | 1476 | 1475 |
| 6 | 1472 | 1472 | 1472 | 1473 | 1473 | 1472 | 1470 | 1470 | 1469 | 1470 | 1471 | 1472 | 1473 | 1473 | 1473 | 1472 | 1472 |
| 7 | 1467 | 1467 | 1468 | 1469 | 1469 | 1468 | 1466 | 1465 | 1464 | 1465 | 1467 | 1468 | 1470 | 1469 | 1469 | 1468 | 1467 |
| 8 | 1462 | 1462 | 1463 | 1465 | 1464 | 1464 | 1461 | 1459 | 1459 | 1460 | 1462 | 1463 | 1466 | 1465 | 1464 | 1463 | 1462 |
| 9 | 1456 | 1457 | 1458 | 1460 | 1459 | 1458 | 1455 | 1453 | 1452 | 1454 | 1456 | 1458 | 1461 | 1460 | 1459 | 1457 | 1456 |
| 10 | 1449 | 1450 | 1452 | 1454 | 1454 | 1453 | 1449 | 1446 | 1445 | 1447 | 1450 | 1452 | 1455 | 1454 | 1453 | 1451 | 1449 |
| 11 | 1442 | 1443 | 1445 | 1448 | 1447 | 1446 | 1441 | 1438 | 1438 | 1439 | 1443 | 1446 | 1449 | 1448 | 1446 | 1443 | 1442 |
| 12 | 1434 | 1435 | 1437 | 1441 | 1441 | 1439 | 1434 | 1430 | 1429 | 1431 | 1435 | 1439 | 1442 | 1441 | 1439 | 1436 | 1434 |
| 13 | 1425 | 1427 | 1429 | 1434 | 1434 | 1432 | 1425 | 1421 | 1420 | 1422 | 1427 | 1431 | 1435 | 1433 | 1431 | 1427 | 1425 |
| 14 | 1416 | 1417 | 1421 | 1426 | 1426 | 1423 | 1416 | 1411 | 1410 | 1413 | 1418 | 1423 | 1428 | 1425 | 1423 | 1418 | 1416 |
| 15 | 1406 | 1407 | 1412 | 1417 | 1417 | 1415 | 1407 | 1401 | 1400 | 1402 | 1408 | 1415 | 1420 | 1417 | 1414 | 1408 | 1406 |
| 16 | 1395 | 1397 | 1402 | 1408 | 1408 | 1405 | 1397 | 1391 | 1389 | 1392 | 1398 | 1405 | 1410 | 1407 | 1404 | 1398 | 1395 |
| 17 | 1384 | 1386 | 1391 | 1398 | 1399 | 1395 | 1386 | 1379 | 1377 | 1380 | 1388 | 1395 | 1401 | 1398 | 1394 | 1387 | 1384 |
| 18 | 1372 | 1374 | 1380 | 1388 | 1389 | 1385 | 1375 | 1367 | 1365 | 1368 | 1376 | 1385 | 1391 | 1387 | 1383 | 1376 | 1372 |
| 19 | 1360 | 1362 | 1369 | 1377 | 1378 | 1374 | 1363 | 1355 | 1352 | 1356 | 1365 | 1374 | 1380 | 1376 | 1371 | 1363 | 1360 |
| 20 | 1347 | 1349 | 1357 | 1365 | 1367 | 1362 | 1350 | 1341 | 1339 | 1343 | 1352 | 1362 | 1369 | 1365 | 1359 | 1351 | 1347 |
| 21 | 1333 | 1336 | 1344 | 1353 | 1355 | 1350 | 1337 | 1328 | 1325 | 1329 | 1339 | 1350 | 1357 | 1353 | 1347 | 1337 | 1333 |
| 22 | 1319 | 1322 | 1330 | 1341 | 1343 | 1337 | 1324 | 1313 | 1310 | 1315 | 1326 | 1337 | 1345 | 1340 | 1334 | 1323 | 1319 |
| 23 | 1304 | 1307 | 1317 | 1328 | 1330 | 1324 | 1310 | 1299 | 1295 | 1300 | 1312 | 1324 | 1332 | 1327 | 1320 | 1309 | 1304 |
| 24 | 1289 | 1292 | 1302 | 1314 | 1317 | 1310 | 1295 | 1283 | 1280 | 1285 | 1298 | 1310 | 1319 | 1314 | 1306 | 1294 | 1289 |
| 25 | 1273 | 1276 | 1287 | 1300 | 1303 | 1296 | 1280 | 1268 | 1264 | 1269 | 1283 | 1296 | 1305 | 1300 | 1291 | 1278 | 1273 |
| 26 | 1256 | 1260 | 1272 | 1286 | 1289 | 1282 | 1265 | 1251 | 1247 | 1253 | 1267 | 1282 | 1291 | 1285 | 1275 | 1263 | 1256 |
| 27 | 1239 | 1243 | 1256 | 1270 | 1273 | 1266 | 1248 | 1234 | 1230 | 1236 | 1251 | 1266 | 1277 | 1270 | 1260 | 1246 | 1239 |
| 28 | 1222 | 1227 | 1240 | 1255 | 1258 | 1250 | 1232 | 1217 | 1213 | 1219 | 1235 | 1251 | 1261 | 1254 | 1244 | 1229 | 1222 |
| 29 | 1205 | 1209 | 1224 | 1239 | 1242 | 1234 | 1215 | 1200 | 1195 | 1202 | 1219 | 1235 | 1245 | 1238 | 1227 | 1212 | 1205 |
| 30 | 1187 | 1192 | 1206 | 1222 | 1226 | 1217 | 1198 | 1182 | 1177 | 1184 | 1201 | 1219 | 1229 | 1222 | 1210 | 1194 | 1187 |
| 31 | 1168 | 1173 | 1189 | 1205 | 1209 | 1201 | 1180 | 1164 | 1159 | 1166 | 1183 | 1202 | 1212 | 1205 | 1192 | 1176 | 1168 |
| 32 | 1150 | 1154 | 1170 | 1188 | 1192 | 1183 | 1162 | 1145 | 1139 | 1147 | 1164 | 1184 | 1195 | 1187 | 1174 | 1158 | 1150 |
| 33 | 1130 | 1135 | 1152 | 1170 | 1174 | 1165 | 1144 | 1126 | 1120 | 1128 | 1146 | 1166 | 1177 | 1170 | 1156 | 1138 | 1130 |
| 34 | 1111 | 1116 | 1134 | 1152 | 1157 | 1147 | 1125 | 1104 | 1101 | 1109 | 1128 | 1147 | 1160 | 1152 | 1137 | 1119 | 1111 |
| 35 | 1091 | 1096 | 1114 | 1133 | 1138 | 1128 | 1106 | 1087 | 1081 | 1089 | 1109 | 1129 | 1142 | 1133 | 1118 | 1100 | 1091 |
| 36 | 1071 | 1076 | 1095 | 1114 | 1119 | 1109 | 1086 | 1067 | 1061 | 1069 | 1090 | 1110 | 1124 | 1114 | 1098 | 1080 | 1071 |
| 37 | 1051 | 1056 | 1075 | 1095 | 1100 | 1090 | 1066 | 1047 | 1041 | 1049 | 1069 | 1092 | 1104 | 1094 | 1078 | 1060 | 1051 |
| 38 | 1030 | 1035 | 1055 | 1075 | 1081 | 1070 | 1046 | 1027 | 1020 | 1029 | 1049 | 1073 | 1083 | 1075 | 1058 | 1039 | 1030 |
| 39 | 1010 | 1014 | 1034 | 1055 | 1061 | 1050 | 1026 | 1006 | 999 | 1008 | 1028 | 1052 | 1063 | 1055 | 1037 | 1018 | 1010 |
| 40 | 988 | 993 | 1014 | 1035 | 1041 | 1030 | 1005 | 985 | 978 | 987 | 1008 | 1031 | 1043 | 1035 | 1017 | 997 | 988 |
| 41 | 967 | 972 | 993 | 1014 | 1021 | 1009 | 984 | 964 | 957 | 966 | 988 | 1011 | 1023 | 1014 | 996 | 976 | 967 |
| 42 | 945 | 951 | 971 | 993 | 1000 | 988 | 963 | 943 | 935 | 944 | 967 | 990 | 1002 | 992 | 974 | 955 | 945 |
| 43 | 924 | 929 | 950 | 972 | 979 | 967 | 941 | 921 | 914 | 923 | 945 | 968 | 981 | 972 | 953 | 933 | 924 |
| 44 | 902 | 908 | 929 | 951 | 958 | 946 | 920 | 899 | 892 | 901 | 923 | 947 | 960 | 950 | 931 | 911 | 902 |
| 45 | 880 | 886 | 907 | 929 | 937 | 924 | 898 | 877 | 870 | 879 | 901 | 926 | 939 | 928 | 909 | 889 | 880 |
| 46 | 858 | 864 | 885 | 908 | 916 | 902 | 877 | 855 | 848 | 857 | 880 | 904 | 918 | 907 | 887 | 867 | 858 |

| | | | | | | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 47 | 836 | 841 | 863 | 886 | 894 | 881 | 854 | 833 | 826 | 835 | 858 | 882 | 896 | 885 | 865 | 845 | 836 |
| 48 | 814 | 819 | 841 | 864 | 873 | 859 | 832 | 810 | 803 | 813 | 836 | 860 | 874 | 863 | 843 | 823 | 814 |
| 49 | 791 | 797 | 818 | 843 | 851 | 837 | 810 | 788 | 781 | 791 | 813 | 838 | 852 | 841 | 820 | 800 | 791 |
| 50 | 769 | 775 | 796 | 821 | 830 | 815 | 788 | 766 | 758 | 767 | 791 | 816 | 830 | 819 | 798 | 778 | 769 |
| 51 | 746 | 752 | 774 | 799 | 808 | 793 | 766 | 743 | 736 | 745 | 769 | 794 | 809 | 797 | 776 | 755 | 746 |
| 52 | 724 | 729 | 752 | 777 | 787 | 772 | 743 | 720 | 713 | 723 | 746 | 772 | 787 | 775 | 753 | 732 | 724 |
| 53 | 701 | 707 | 729 | 755 | 766 | 750 | 721 | 698 | 690 | 701 | 725 | 751 | 765 | 753 | 731 | 710 | 701 |
| 54 | 679 | 684 | 707 | 734 | 744 | 729 | 699 | 675 | 668 | 677 | 703 | 729 | 744 | 731 | 708 | 687 | 679 |
| 55 | 656 | 662 | 684 | 712 | 723 | 707 | 677 | 652 | 645 | 655 | 680 | 708 | 723 | 710 | 686 | 664 | 656 |
| 56 | 633 | 639 | 662 | 690 | 703 | 686 | 655 | 630 | 623 | 632 | 657 | 687 | 702 | 689 | 663 | 641 | 633 |
| 57 | 610 | 616 | 640 | 669 | 682 | 665 | 633 | 608 | 600 | 610 | 635 | 666 | 682 | 668 | 642 | 619 | 610 |
| 58 | 588 | 594 | 618 | 648 | 662 | 644 | 611 | 585 | 578 | 587 | 613 | 645 | 661 | 646 | 619 | 596 | 588 |
| 59 | 565 | 571 | 596 | 627 | 641 | 624 | 589 | 562 | 555 | 565 | 591 | 625 | 640 | 626 | 597 | 573 | 565 |
| 60 | 543 | 549 | 575 | 607 | 622 | 604 | 568 | 540 | 533 | 543 | 570 | 604 | 621 | 605 | 576 | 551 | 543 |
| 61 | 520 | 526 | 553 | 587 | 602 | 584 | 547 | 517 | 510 | 521 | 548 | 584 | 601 | 585 | 554 | 528 | 520 |
| 62 | 497 | 504 | 532 | 566 | 583 | 564 | 526 | 495 | 488 | 498 | 527 | 564 | 582 | 565 | 533 | 506 | 497 |
| 63 | 475 | 482 | 511 | 547 | 565 | 545 | 505 | 473 | 466 | 476 | 506 | 545 | 564 | 545 | 512 | 484 | 475 |
| 64 | 452 | 459 | 490 | 528 | 548 | 527 | 484 | 451 | 443 | 454 | 486 | 526 | 547 | 527 | 491 | 462 | 452 |
| 65 | 430 | 437 | 469 | 510 | 531 | 509 | 464 | 430 | 421 | 431 | 465 | 509 | 530 | 509 | 471 | 439 | 430 |
| 66 | 407 | 416 | 449 | 493 | 515 | 491 | 444 | 408 | 399 | 410 | 445 | 492 | 514 | 491 | 451 | 417 | 407 |
| 67 | 385 | 394 | 429 | 476 | 499 | 475 | 424 | 387 | 377 | 389 | 425 | 475 | 497 | 475 | 431 | 396 | 385 |
| 68 | 363 | 372 | 410 | 458 | 483 | 458 | 405 | 365 | 355 | 367 | 406 | 458 | 482 | 458 | 411 | 374 | 363 |
| 69 | 341 | 351 | 391 | 442 | 467 | 442 | 386 | 345 | 333 | 346 | 386 | 443 | 466 | 441 | 392 | 353 | 341 |
| 70 | 319 | 330 | 372 | 426 | 451 | 425 | 368 | 324 | 312 | 325 | 369 | 426 | 450 | 425 | 374 | 332 | 319 |
| 71 | 298 | 310 | 354 | 410 | 436 | 410 | 351 | 303 | 290 | 305 | 351 | 410 | 435 | 409 | 356 | 312 | 298 |
| 72 | 276 | 289 | 337 | 394 | 420 | 394 | 334 | 283 | 269 | 284 | 335 | 394 | 420 | 393 | 339 | 291 | 276 |
| 73 | 254 | 269 | 320 | 378 | 405 | 378 | 318 | 263 | 247 | 264 | 318 | 379 | 404 | 377 | 322 | 271 | 254 |
| 74 | 233 | 250 | 303 | 362 | 389 | 362 | 301 | 244 | 227 | 245 | 302 | 363 | 389 | 361 | 305 | 252 | 233 |
| 75 | 213 | 231 | 287 | 345 | 371 | 345 | 285 | 224 | 206 | 225 | 285 | 347 | 372 | 345 | 289 | 233 | 213 |
| 76 | 193 | 212 | 271 | 329 | 353 | 328 | 269 | 205 | 186 | 207 | 269 | 330 | 353 | 329 | 273 | 214 | 193 |
| 77 | 172 | 194 | 255 | 310 | 333 | 309 | 253 | 187 | 166 | 188 | 253 | 312 | 333 | 310 | 257 | 196 | 172 |
| 78 | 153 | 175 | 239 | 289 | 308 | 288 | 236 | 170 | 147 | 171 | 237 | 290 | 309 | 289 | 241 | 177 | 153 |
| 79 | 134 | 158 | 223 | 265 | 280 | 263 | 218 | 153 | 128 | 154 | 220 | 266 | 281 | 264 | 224 | 160 | 134 |
| 80 | 116 | 141 | 204 | 237 | 242 | 233 | 198 | 137 | 111 | 138 | 201 | 238 | 244 | 237 | 205 | 143 | 116 |
| 81 | 99 | 125 | 184 | 201 | 205 | 197 | 176 | 121 | 94 | 122 | 180 | 202 | 206 | 202 | 183 | 127 | 99 |
| 82 | 82 | 110 | 160 | 167 | 169 | 163 | 151 | 106 | 78 | 106 | 155 | 167 | 170 | 167 | 158 | 111 | 82 |
| 83 | 67 | 94 | 132 | 134 | 135 | 130 | 122 | 89 | 64 | 90 | 127 | 133 | 135 | 133 | 130 | 94 | 67 |
| 84 | 54 | 77 | 102 | 102 | 101 | 97 | 93 | 72 | 50 | 73 | 97 | 100 | 101 | 101 | 100 | 77 | 54 |
| 85 | 41 | 60 | 75 | 71 | 68 | 66 | 66 | 54 | 38 | 56 | 69 | 69 | 69 | 70 | 72 | 59 | 41 |
| 86 | 29 | 43 | 49 | 43 | 38 | 38 | 41 | 37 | 27 | 39 | 44 | 40 | 39 | 41 | 46 | 41 | 29 |
| 87 | 19 | 26 | 26 | 17 | 12 | 14 | 19 | 21 | 18 | 22 | 22 | 16 | 12 | 16 | 24 | 24 | 19 |
| 88 | 11 | 13 | 9 | 4 | 3 | 3 | 5 | 9 | 9 | 10 | 6 | 4 | 3 | 4 | 7 | 11 | 11 |
| 89 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 90 | 1 | 1 | 2 | 2 | 1 | 4 | 1 | 7 | 6 | 3 | 1 | 2 | 2 | 2 | 2 | 1 | 1 |
| 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 111 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 116 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 129 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 133 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 134 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 136 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 137 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 138 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 139 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 143 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 146 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 148 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 149 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 151 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 153 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 158 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 161 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 163 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 166 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 168 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 171 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 173 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 174 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 178 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 179 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminaire Report Summary

IESNA:LM-63-2002
 [TEST]
 [TESTDATE] 2017-11-21
 [TESTLAB] Standard-Tech Co. Ltd
 [ISSUE DATE] 2017-11-21
 [MANUFAC] SARIN Energy Inc.
 [LUMINAIRE] SES-TR22DN40-4000- 30 120V
 [_TOTALLUMINAIRELUMENS] 3985.1
 [_LAMPPOSITION] 0,0
 [OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 140.05
 140.05 3.51 3.5110- 20 397.59 537.64 13.49 13.4920- 30 591.94 1129.58 28.34
 28.3430- 40 695.23 1824.82 45.79 45.7940- 50 698.03 2522.85 63.30 63.3050- 60
 612.05 3134.90 78.66 78.6660- 70 468.76 3603.67 90.42 90.4270- 80 302.32 3905.99
 98.00 98.0080- 90 79.48 3985.46 100.00 100.0090-100 0.13 3985.59 100.00 100.00100-
 110 0.00 3985.59 100.00 100.00110-120 0.00 3985.59 100.00 100.00120-130 0.00
 3985.59 100.00 100.00130-140 0.00 3985.59 100.00 100.00140-150 0.00 3985.59 100.00
 100.00150-160 0.00 3985.59 100.00 100.00160-170 0.00 3985.59 100.00 100.00170-180
 0.00 3985.59 100.00 100.00

FILE: CREATED USING ABSOLUTE PHOTOMETRY
 FILE: CANDELA MULTIPLIER: 1
 FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
 FILE: COORDINATE SYSTEM: TYPE C
 FILE: UNIT OF MEASURE: METRIC
 FILE: BALLAST FACTOR: 1

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 Reported data calculated from manufacturer's data file, based on IES recommended methods.