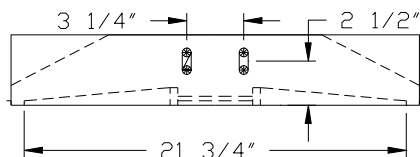
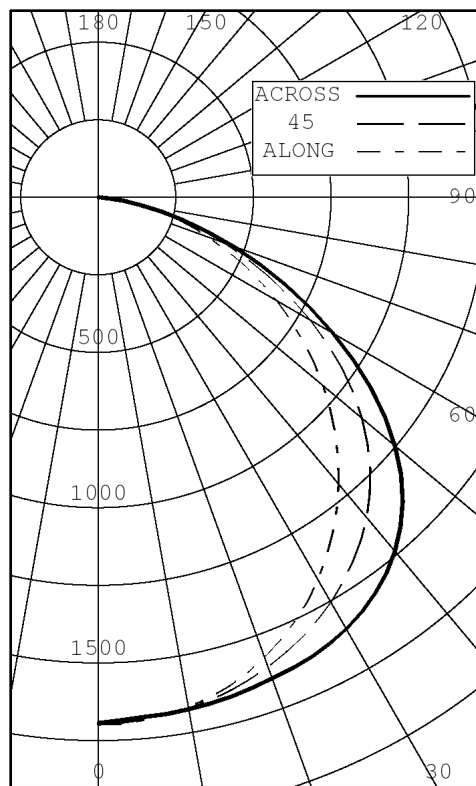




CERTIFIED TEST REPORT No. 26731

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-2FT40-DCO
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & FLAT FROSTED CENTER LENS
TWO SYLVANIA 40 WATT CFL LAMPS, CAT# FT40DL/835/RS. LUMEN RATING = 3150 LMS.
ONE SYLVANIA QHE2X40DL/UNV ISN SC BALLAST OPERATING AT 120 VAC AND 66.3 WATTS



LUMINANCE SUMMARY CD./SQ.M.

| ANGLE | ALONG | 45 | ACROSS |
|-------|-------|------|--------|
| 45 | 4942 | 5692 | 6375 |
| 55 | 4541 | 5417 | 6073 |
| 65 | 3972 | 4665 | 5118 |
| 75 | 3203 | 3453 | 3586 |
| 85 | 2074 | 1645 | 1457 |

INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

| ANGLE | ALONG | 22.5 | 45 | 67.5 | ACROSS | |
|-------|-------|------|------|------|--------|-----|
| 0 | 1695 | 1695 | 1695 | 1695 | 1695 | |
| 5 | 1691 | 1690 | 1689 | 1686 | 1682 | 163 |
| 10 | 1668 | 1668 | 1672 | 1676 | 1675 | |
| 15 | 1629 | 1632 | 1645 | 1659 | 1665 | 464 |
| 20 | 1573 | 1580 | 1606 | 1636 | 1649 | |
| 25 | 1504 | 1515 | 1560 | 1609 | 1631 | 720 |
| 30 | 1417 | 1436 | 1502 | 1572 | 1603 | |
| 35 | 1316 | 1343 | 1431 | 1519 | 1557 | 894 |
| 40 | 1204 | 1238 | 1345 | 1445 | 1487 | |
| 45 | 1079 | 1121 | 1238 | 1342 | 1387 | 948 |
| 50 | 945 | 989 | 1108 | 1208 | 1248 | |
| 55 | 804 | 846 | 956 | 1038 | 1071 | 840 |
| 60 | 661 | 696 | 785 | 846 | 872 | |
| 65 | 518 | 545 | 607 | 647 | 665 | 591 |
| 70 | 382 | 398 | 433 | 456 | 465 | |
| 75 | 256 | 262 | 276 | 282 | 285 | 292 |
| 80 | 145 | 144 | 143 | 139 | 138 | |
| 85 | 56 | 51 | 44 | 41 | 39 | 60 |
| 90 | 0 | 0 | 0 | 0 | 0 | |

ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|--------|--------|--------|-------------|
| 0-30 | 1347 | 21.38 | 27.09 |
| 0-40 | 2241 | 35.58 | 45.08 |
| 0-60 | 4030 | 63.96 | 81.05 |
| 0-90 | 4972 | 78.92 | 100.00 |
| 40-90 | 2730 | 43.34 | 54.92 |
| 60-90 | 942 | 14.96 | 18.95 |
| 90-180 | 0 | 0.00 | 0.00 |
| 0-180 | 4972 | 78.92 | 100.00 |

** EFFICIENCY: 78.9% **

LUMINOUS LENGTH: 22.000 INS
WIDTH: 21.750 INS

S/MH: 1.4
SC(ALONG): 1.2, SC(ACROSS): 1.4

CERTIFIED BY:

Ryder Tunnay

DATE:
FEB 23, 2010

PREPARED FOR:

FINELITE
UNION CITY, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.
7826 E. EVANS RD.
SCOTTSDALE, AZ, USA 85260

CERTIFIED TEST REPORT No. 26731

FINELITE - 2' X 2' FLUORESCENT RECESSED LUMINAIRE, CAT# HPR-x-2X2-2FT40-DCO
WHITE REFLECTOR, FROSTED PLASTIC SIDE LENSES & FLAT FROSTED CENTER LENS
TWO SYLVANIA 40 WATT CFL LAMPS, CAT# FT40DL/835/RS. LUMEN RATING = 3150 LMS.
ONE SYLVANIA QHE2X40DL/UNV ISN SC BALLAST OPERATING AT 120 VAC AND 66.3 WATTS

INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

| ANGLE | PLANE | | | | | AVERAGE | OUTPUT LUMENS |
|-------|-------|------|------|------|--------|---------|------------------|
| | ALONG | 22.5 | 45 | 67.5 | ACROSS | | |
| 0.0 | 1695 | 1695 | 1695 | 1695 | 1695 | 1695 | |
| 2.5 | 1698 | 1697 | 1695 | 1691 | 1687 | 1694 | |
| 5.0 | 1691 | 1690 | 1689 | 1686 | 1682 | 1688 | 163 |
| 7.5 | 1681 | 1680 | 1681 | 1681 | 1679 | 1680 | |
| 10.0 | 1668 | 1668 | 1672 | 1676 | 1675 | 1672 | |
| 12.5 | 1651 | 1653 | 1660 | 1668 | 1671 | 1661 | |
| 15.0 | 1629 | 1632 | 1645 | 1659 | 1665 | 1646 | 464 |
| 17.5 | 1603 | 1608 | 1627 | 1648 | 1656 | 1628 | |
| 20.0 | 1573 | 1580 | 1606 | 1636 | 1649 | 1608 | |
| 22.5 | 1540 | 1549 | 1585 | 1623 | 1641 | 1587 | |
| 25.0 | 1504 | 1515 | 1560 | 1609 | 1631 | 1563 | 720 |
| 27.5 | 1463 | 1478 | 1533 | 1593 | 1619 | 1536 | |
| 30.0 | 1417 | 1436 | 1502 | 1572 | 1603 | 1505 | |
| 32.5 | 1368 | 1390 | 1468 | 1547 | 1582 | 1470 | |
| 35.0 | 1316 | 1343 | 1431 | 1519 | 1557 | 1432 | 894 |
| 37.5 | 1262 | 1292 | 1390 | 1486 | 1526 | 1390 | |
| 40.0 | 1204 | 1238 | 1345 | 1445 | 1487 | 1343 | |
| 42.5 | 1143 | 1181 | 1294 | 1397 | 1441 | 1291 | |
| 45.0 | 1079 | 1121 | 1238 | 1342 | 1387 | 1233 | 948 |
| 47.5 | 1013 | 1057 | 1176 | 1279 | 1322 | 1170 | |
| 50.0 | 945 | 989 | 1108 | 1208 | 1248 | 1100 | |
| 52.5 | 875 | 919 | 1034 | 1128 | 1164 | 1025 | |
| 55.0 | 804 | 846 | 956 | 1038 | 1071 | 944 | 840 |
| 57.5 | 732 | 771 | 872 | 944 | 973 | 860 | |
| 60.0 | 661 | 696 | 785 | 846 | 872 | 773 | |
| 62.5 | 589 | 620 | 696 | 746 | 769 | 685 | |
| 65.0 | 518 | 545 | 607 | 647 | 665 | 598 | 591 |
| 67.5 | 449 | 471 | 518 | 551 | 564 | 512 | |
| 70.0 | 382 | 398 | 433 | 456 | 465 | 428 | |
| 72.5 | 317 | 328 | 351 | 366 | 372 | 348 | |
| 75.0 | 256 | 262 | 276 | 282 | 285 | 272 | 292 |
| 77.5 | 198 | 200 | 206 | 206 | 207 | 204 | |
| 80.0 | 145 | 144 | 143 | 139 | 138 | 142 | |
| 82.5 | 97 | 94 | 89 | 83 | 79 | 89 | |
| 85.0 | 56 | 51 | 44 | 41 | 39 | 46 | 60 |
| 87.5 | 20 | 16 | 14 | 14 | 14 | 15 | |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | |

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ONE SYLVANIA QHE2X40DL/UNV ISN SC BALLAST OPERATING AT 120 VAC AND 66.3 WATTS

AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

| ANGLE | ALONG | 22.5 | 45 | 67.5 | ACROSS |
|-------|-------------|-------------|-------------|-------------|-------------|
| 0 | 5489(1602) | 5489(1602) | 5489(1602) | 5489(1602) | 5489(1602) |
| 30 | 5301(1547) | 5385(1571) | 5633(1644) | 5894(1720) | 5995(1749) |
| 40 | 5090(1485) | 5248(1531) | 5691(1661) | 6127(1788) | 6289(1835) |
| 45 | 4942(1442) | 5139(1500) | 5692(1661) | 6167(1800) | 6375(1860) |
| 50 | 4760(1389) | 5004(1460) | 5582(1629) | 6104(1781) | 6287(1834) |
| 55 | 4541(1325) | 4784(1396) | 5417(1581) | 5882(1716) | 6073(1772) |
| 60 | 4279(1248) | 4521(1319) | 5091(1485) | 5492(1603) | 5649(1648) |
| 65 | 3972(1159) | 4178(1219) | 4665(1361) | 4978(1453) | 5118(1493) |
| 70 | 3620(1056) | 3785(1104) | 4110(1199) | 4331(1264) | 4407(1286) |
| 75 | 3203(934) | 3289(960) | 3453(1007) | 3536(1032) | 3586(1046) |
| 80 | 2704(789) | 2701(788) | 2685(783) | 2605(760) | 2568(749) |
| 85 | 2074(605) | 1891(552) | 1645(480) | 1522(444) | 1457(425) |

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC WALL | 90 | | | | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | | 0 |
|------------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|------|----|----|---|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0.960 | 0.960 | 0.960 | 0.96 | 0.940 | 0.940 | 0.940 | 0.94 | 0.920 | 0.920 | 0.920 | 0.92 | 0.880 | 0.880 | 0.88 | 0.840 | 0.840 | 0.84 | 0.810 | 0.810 | 0.81 | 0.79 | | | |
| 1 | 0.890 | 0.850 | 0.820 | 0.79 | 0.870 | 0.830 | 0.800 | 0.78 | 0.850 | 0.820 | 0.790 | 0.76 | 0.780 | 0.760 | 0.74 | 0.750 | 0.730 | 0.72 | 0.720 | 0.710 | 0.69 | 0.68 | | | |
| 2 | 0.810 | 0.750 | 0.700 | 0.66 | 0.800 | 0.740 | 0.690 | 0.65 | 0.780 | 0.720 | 0.680 | 0.64 | 0.700 | 0.660 | 0.63 | 0.670 | 0.640 | 0.61 | 0.650 | 0.620 | 0.60 | 0.58 | | | |
| 3 | 0.750 | 0.660 | 0.600 | 0.55 | 0.730 | 0.650 | 0.590 | 0.55 | 0.710 | 0.640 | 0.590 | 0.54 | 0.620 | 0.570 | 0.53 | 0.600 | 0.560 | 0.52 | 0.580 | 0.540 | 0.51 | 0.50 | | | |
| 4 | 0.690 | 0.600 | 0.530 | 0.48 | 0.670 | 0.590 | 0.520 | 0.47 | 0.660 | 0.580 | 0.520 | 0.47 | 0.560 | 0.500 | 0.46 | 0.540 | 0.490 | 0.46 | 0.520 | 0.480 | 0.45 | 0.43 | | | |
| 5 | 0.640 | 0.530 | 0.460 | 0.41 | 0.620 | 0.520 | 0.460 | 0.41 | 0.600 | 0.510 | 0.450 | 0.40 | 0.500 | 0.440 | 0.40 | 0.480 | 0.430 | 0.39 | 0.470 | 0.430 | 0.39 | 0.37 | | | |
| 6 | 0.590 | 0.480 | 0.400 | 0.36 | 0.570 | 0.470 | 0.400 | 0.35 | 0.550 | 0.460 | 0.400 | 0.35 | 0.450 | 0.390 | 0.35 | 0.430 | 0.380 | 0.34 | 0.420 | 0.370 | 0.34 | 0.32 | | | |
| 7 | 0.530 | 0.420 | 0.350 | 0.31 | 0.520 | 0.420 | 0.350 | 0.30 | 0.510 | 0.410 | 0.350 | 0.30 | 0.400 | 0.340 | 0.30 | 0.390 | 0.330 | 0.30 | 0.380 | 0.330 | 0.29 | 0.28 | | | |
| 8 | 0.500 | 0.380 | 0.320 | 0.27 | 0.480 | 0.380 | 0.310 | 0.27 | 0.470 | 0.370 | 0.310 | 0.26 | 0.360 | 0.300 | 0.26 | 0.350 | 0.300 | 0.26 | 0.340 | 0.300 | 0.26 | 0.24 | | | |
| 9 | 0.460 | 0.350 | 0.280 | 0.23 | 0.450 | 0.340 | 0.280 | 0.23 | 0.440 | 0.340 | 0.280 | 0.23 | 0.330 | 0.270 | 0.23 | 0.320 | 0.270 | 0.23 | 0.310 | 0.260 | 0.23 | 0.21 | | | |
| 10 | 0.420 | 0.320 | 0.250 | 0.21 | 0.410 | 0.310 | 0.250 | 0.21 | 0.410 | 0.310 | 0.250 | 0.21 | 0.300 | 0.240 | 0.20 | 0.290 | 0.240 | 0.20 | 0.280 | 0.240 | 0.20 | 0.19 | | | |

LUMINAIRE INPUT WATTS 66.3

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.