

CERTIFIED TEST REPORT No. LSI

15380

P-100

PRUDENTIAL LIGHTING 4' FLUORESCENT LUMINAIRE, CAT# P1702-48

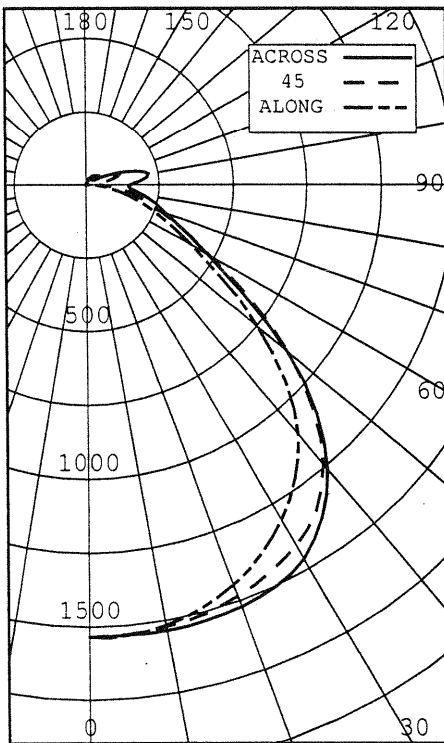
WITH WHITE INTERIOR AND PRISMATIC LENS

TWO PHILIPS 32 WATT T8 LAMPS, CAT# F32T8/TL835. LUMEN RATING = 2950 LMS.

ONE SYLVANIA QT2X32/120 IS-SC BALLAST OPERATING AT 120 VAC AND 59 WATTS

CANDLEPOWER SUMMARY

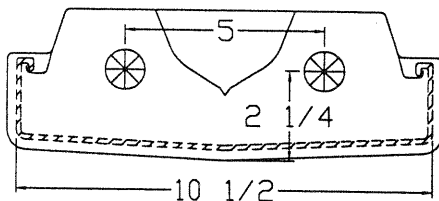
OUTPUT
LUMENS



| ANGLE | ALONG | 22.5 | 45 | 67.5 | ACROSS | |
|-------|-------|------|------|------|--------|-----|
| 0 | 1535 | 1535 | 1535 | 1535 | 1535 | |
| 5 | 1535 | 1530 | 1531 | 1529 | 1534 | 148 |
| 15 | 1485 | 1488 | 1508 | 1521 | 1530 | 425 |
| 25 | 1381 | 1402 | 1451 | 1485 | 1502 | 665 |
| 35 | 1220 | 1270 | 1348 | 1371 | 1380 | 822 |
| 45 | 947 | 1030 | 1080 | 1088 | 1097 | 805 |
| 55 | 563 | 613 | 668 | 653 | 637 | 573 |
| 65 | 305 | 311 | 358 | 356 | 358 | 343 |
| 75 | 156 | 178 | 208 | 234 | 245 | 217 |
| 85 | 38 | 68 | 90 | 135 | 153 | 109 |
| 90 | 0 | 16 | 48 | 113 | 152 | |
| 95 | 0 | 6 | 41 | 140 | 189 | 79 |
| 105 | 0 | 10 | 109 | 175 | 180 | 97 |
| 115 | 0 | 35 | 67 | 72 | 74 | 54 |
| 125 | 0 | 14 | 30 | 43 | 44 | 25 |
| 135 | 0 | 13 | 33 | 42 | 42 | 21 |
| 145 | 0 | 9 | 22 | 31 | 37 | 13 |
| 155 | 0 | 4 | 14 | 20 | 24 | 6 |
| 165 | 0 | 0 | 6 | 8 | 12 | 2 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | |

| ZONE | LUMENS | % LAMP | % LUMINAIRE |
|--------|--------|--------|-------------|
| 0-30 | 1238 | 21.00 | 28.12 |
| 0-40 | 2061 | 34.93 | 46.78 |
| 0-60 | 3438 | 58.28 | 78.05 |
| 0-90 | 4108 | 69.63 | 93.25 |
| 40-90 | 2047 | 34.70 | 46.47 |
| 60-90 | 669 | 11.35 | 15.20 |
| 90-180 | 297 | 5.04 | 6.75 |
| 0-180 | 4405 | 74.67 | 100.00 |

** EFFICIENCY: 74.7% **



LUMINANCE SUMMARY - CD./SQ.M.

| ANGLE | ALONG | 45 | ACROSS |
|-------|-------|------|--------|
| 45 | 4139 | 4178 | 4044 |
| 55 | 3035 | 3033 | 2709 |
| 65 | 2232 | 2037 | 1865 |
| 75 | 1869 | 1655 | 1714 |
| 85 | 1330 | 1257 | 1709 |

PAINT REFLECTANCE: .85 , S/MH: 1.4
SC(ALONG): 1.3, SC(ACROSS): 1.4

CERTIFIED BY:

John O'Sullivan

DATE:
MAR 26, 2001

PREPARED FOR:

PRUDENTIAL LIGHTING CORP.
LOS ANGELES, CA

TESTED IN ACCORDANCE WITH IES PROCEDURES.

Lighting Sciences
7830 E. Evans Rd.
Scottsdale, AZ, USA 85260

CERTIFIED TEST REPORT No. LSI

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PRUDENTIAL LIGHTING 4' FLUORESCENT LUMINAIRE, CAT# P1702-48
WITH WHITE INTERIOR AND PRISMATIC LENS
TWO PHILIPS 32 WATT T8 LAMPS, CAT# F32T8/TL835. LUMEN RATING = 2950 LMS.
ONE SYLVANIA QT2X32/120 IS-SC BALLAST OPERATING AT 120 VAC AND 59 WATTS

CANDLEPOWER DATA

| ANGLE | PLANE | | | | | | OUTPUT LUMENS |
|-------|-------|------|------|------|--------|---------|------------------|
| | ALONG | 22.5 | 45 | 67.5 | ACROSS | AVERAGE | |
| 0 | 1535 | 1535 | 1535 | 1535 | 1535 | 1535 | |
| 5 | 1535 | 1530 | 1531 | 1529 | 1534 | 1531 | 148 |
| 10 | 1516 | 1515 | 1521 | 1528 | 1536 | 1523 | |
| 15 | 1485 | 1488 | 1508 | 1521 | 1530 | 1506 | 425 |
| 20 | 1440 | 1450 | 1482 | 1508 | 1521 | 1480 | |
| 25 | 1381 | 1402 | 1451 | 1485 | 1502 | 1445 | 665 |
| 30 | 1309 | 1343 | 1409 | 1448 | 1462 | 1396 | |
| 35 | 1220 | 1270 | 1348 | 1371 | 1380 | 1322 | 822 |
| 40 | 1106 | 1175 | 1240 | 1253 | 1261 | 1213 | |
| 45 | 947 | 1030 | 1080 | 1088 | 1097 | 1055 | 805 |
| 50 | 754 | 815 | 885 | 885 | 881 | 851 | |
| 55 | 563 | 613 | 668 | 653 | 637 | 634 | 573 |
| 60 | 406 | 434 | 483 | 476 | 476 | 458 | |
| 65 | 305 | 311 | 358 | 356 | 358 | 339 | 343 |
| 70 | 229 | 235 | 276 | 288 | 288 | 264 | |
| 75 | 156 | 178 | 208 | 234 | 245 | 205 | 217 |
| 80 | 96 | 124 | 152 | 180 | 196 | 151 | |
| 85 | 38 | 68 | 90 | 135 | 153 | 97 | 109 |
| 90 | 0 | 16 | 48 | 113 | 152 | 63 | |
| 95 | 0 | 6 | 41 | 140 | 189 | 70 | 79 |
| 100 | 0 | 7 | 68 | 186 | 216 | 92 | |
| 105 | 0 | 10 | 109 | 175 | 180 | 96 | 97 |
| 110 | 0 | 25 | 108 | 126 | 126 | 80 | |
| 115 | 0 | 35 | 67 | 72 | 74 | 53 | 54 |
| 120 | 0 | 21 | 35 | 45 | 47 | 31 | |
| 125 | 0 | 14 | 30 | 43 | 44 | 27 | 25 |
| 130 | 0 | 14 | 32 | 42 | 44 | 27 | |
| 135 | 0 | 13 | 33 | 42 | 42 | 27 | 21 |
| 140 | 0 | 11 | 28 | 39 | 42 | 25 | |
| 145 | 0 | 9 | 22 | 31 | 37 | 20 | 13 |
| 150 | 0 | 7 | 18 | 25 | 29 | 16 | |
| 155 | 0 | 4 | 14 | 20 | 24 | 13 | 6 |
| 160 | 0 | 2 | 11 | 15 | 18 | 9 | |
| 165 | 0 | 0 | 6 | 8 | 12 | 5 | 2 |
| 170 | 0 | 0 | 2 | 4 | 5 | 2 | |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | |

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CERTIFIED TEST REPORT No. LSI

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PRUDENTIAL LIGHTING 4' FLUORESCENT LUMINAIRE, CAT# P1702-48
WITH WHITE INTERIOR AND PRISMATIC LENS
TWO PHILIPS 32 WATT T8 LAMPS, CAT# F32T8/TL835. LUMEN RATING = 2950 LMS.
ONE SYLVANIA QT2X32/120 IS-SC BALLAST OPERATING AT 120 VAC AND 59 WATTS

AVERAGE LUMINANCE DATA

| ANGLE | ALONG | CD./SQ.M. (FOOTLAMBERTS) | | | | ACROSS |
|-------|-------------|--------------------------|-------------|-------------|--|-------------|
| | | 22.5 | 45 | 67.5 | | |
| 0 | 4745(1385) | 4745(1385) | 4745(1385) | 4745(1385) | | 4745(1385) |
| 30 | 4671(1363) | 4612(1346) | 4680(1366) | 4703(1372) | | 4702(1372) |
| 40 | 4465(1303) | 4481(1308) | 4501(1313) | 4418(1289) | | 4388(1280) |
| 45 | 4139(1208) | 4200(1226) | 4178(1219) | 4055(1183) | | 4044(1180) |
| 50 | 3626(1058) | 3621(1056) | 3668(1070) | 3528(1029) | | 3455(1008) |
| 55 | 3035(886) | 2997(874) | 3033(885) | 2820(823) | | 2709(790) |
| 60 | 2511(732) | 2388(697) | 2424(707) | 2261(660) | | 2210(645) |
| 65 | 2232(651) | 1966(573) | 2037(594) | 1895(553) | | 1865(544) |
| 70 | 2065(602) | 1775(518) | 1826(533) | 1756(512) | | 1709(499) |
| 75 | 1869(545) | 1677(489) | 1655(483) | 1692(493) | | 1714(500) |
| 80 | 1711(499) | 1572(458) | 1535(448) | 1608(469) | | 1681(490) |
| 85 | 1330(388) | 1311(382) | 1257(367) | 1592(464) | | 1709(499) |

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CERTIFIED TEST REPORT No. LSI

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PRUDENTIAL LIGHTING 4' FLUORESCENT LUMINAIRE, CAT# P1702-48
WITH WHITE INTERIOR AND PRISMATIC LENS
TWO PHILIPS 32 WATT T8 LAMPS, CAT# F32T8/TL835. LUMEN RATING = 2950 LMS.
ONE SYLVANIA QT2X32/120 IS-SC BALLAST OPERATING AT 120 VAC AND 59 WATTS

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC WALL | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | .88 | .88 | .88 | .88 | .85 | .85 | .85 | .85 | .80 | .80 | .80 | .76 | .76 | .76 | .72 | .72 | .72 | .70 |
| 1 | .81 | .78 | .75 | .72 | .78 | .76 | .73 | .70 | .71 | .69 | .67 | .68 | .66 | .64 | .64 | .63 | .62 | .60 |
| 2 | .74 | .69 | .64 | .61 | .72 | .67 | .63 | .59 | .64 | .60 | .57 | .61 | .58 | .55 | .58 | .55 | .53 | .52 |
| 3 | .68 | .61 | .56 | .52 | .66 | .60 | .55 | .51 | .57 | .53 | .50 | .54 | .51 | .48 | .52 | .49 | .47 | .45 |
| 4 | .63 | .55 | .49 | .45 | .61 | .54 | .48 | .44 | .51 | .47 | .43 | .49 | .45 | .42 | .47 | .44 | .41 | .39 |
| 5 | .58 | .49 | .43 | .38 | .56 | .48 | .42 | .38 | .46 | .41 | .37 | .44 | .40 | .36 | .42 | .38 | .35 | .34 |
| 6 | .54 | .44 | .38 | .34 | .52 | .43 | .37 | .33 | .41 | .36 | .32 | .40 | .35 | .32 | .38 | .34 | .31 | .30 |
| 7 | .49 | .40 | .34 | .30 | .48 | .39 | .33 | .29 | .37 | .32 | .29 | .36 | .31 | .28 | .35 | .31 | .27 | .26 |
| 8 | .46 | .36 | .30 | .25 | .44 | .35 | .29 | .25 | .34 | .28 | .25 | .32 | .28 | .24 | .31 | .27 | .24 | .22 |
| 9 | .42 | .32 | .26 | .22 | .41 | .32 | .26 | .22 | .30 | .25 | .21 | .29 | .24 | .21 | .28 | .24 | .21 | .19 |
| 10 | .39 | .29 | .23 | .19 | .38 | .29 | .23 | .19 | .28 | .22 | .19 | .27 | .22 | .19 | .26 | .21 | .18 | .17 |

LUMINAIRE INPUT WATTS = 59.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.

BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.