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## INDEPENDENT TEST LABORATORY REPORT No. 31620A

### Description:

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

### The sample(s) was(were) tested in accordance with the following applied standards/regulations:

IES LM-41-98: Approved Method for Photometric Testing of Indoor Fluorescent Luminaire (withdrawn)

IES LM-79-08: Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

### Prepared for:

PRUDENTIAL LIGHTING  
  
LOS ANGELES, CA

### Approved by:

JIM DOMIGAN

VS SUPERVISOR

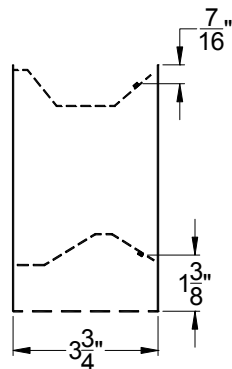
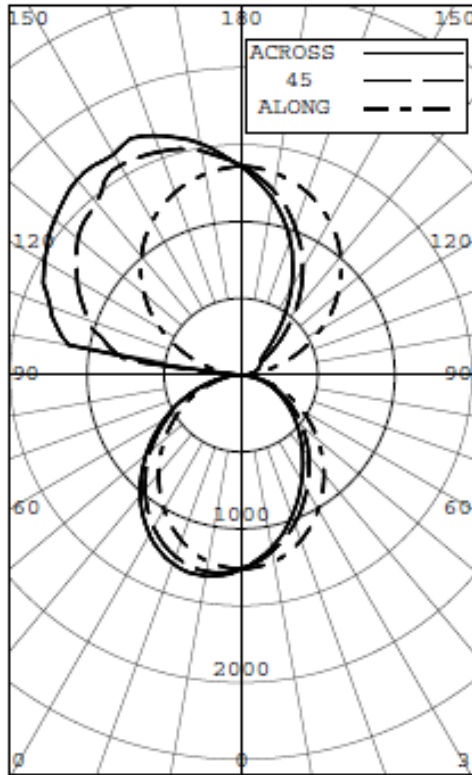
REVISED: MAR 25, 2013

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

INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS



| INTENSITY (CANDLEPOWER) |       |      |      | SUMMARY |        | OUTPUT<br>LUMENS |
|-------------------------|-------|------|------|---------|--------|------------------|
| ANGLE                   | ALONG | BEAM | SIDE | 22.5    | ACROSS |                  |
| 0                       | 1261  | 1261 | 1261 | 1261    | 1261   |                  |
| 5                       | 1254  | 1229 | 1224 | 1213    | 1209   | 58               |
| 15                      | 1195  | 1136 | 1099 | 1070    | 1064   | 155              |
| 25                      | 1081  | 1001 | 943  | 899     | 881    | 219              |
| 35                      | 925   | 841  | 769  | 717     | 701    | 245              |
| 45                      | 745   | 671  | 600  | 555     | 539    | 238              |
| 55                      | 557   | 498  | 445  | 407     | 395    | 204              |
| 65                      | 371   | 333  | 297  | 272     | 264    | 151              |
| 75                      | 194   | 178  | 162  | 149     | 144    | 87               |
| 85                      | 48    | 50   | 50   | 46      | 45     | 27               |
| 90                      | 0     | 0    | 0    | 0       | 0      |                  |
| 95                      | 50    | 27   | 31   | 34      | 35     | 19               |
| 105                     | 245   | 69   | 89   | 89      | 88     | 54               |
| 115                     | 487   | 180  | 119  | 132     | 136    | 92               |
| 125                     | 721   | 407  | 196  | 157     | 160    | 135              |
| 135                     | 922   | 650  | 424  | 291     | 253    | 188              |
| 145                     | 1090  | 872  | 684  | 558     | 516    | 227              |
| 155                     | 1215  | 1059 | 925  | 827     | 793    | 219              |
| 165                     | 1304  | 1209 | 1135 | 1076    | 1060   | 161              |
| 175                     | 1352  | 1319 | 1300 | 1276    | 1269   | 62               |
| 180                     | 1361  | 1361 | 1361 | 1361    | 1361   |                  |

BOTH SIDES  
ZONAL LUMENS AND PERCENTAGES

| ZONE   | LUMENS | % LUMINAIRE |
|--------|--------|-------------|
| 0-30   | 949    | 12.32       |
| 0-40   | 1521   | 19.75       |
| 0-60   | 2583   | 33.55       |
| 0-90   | 3224   | 41.87       |
| 40-90  | 1703   | 22.12       |
| 60-90  | 640    | 8.32        |
| 90-180 | 4476   | 58.13       |
| 0-180  | 7700   | 100.00      |

EFFICACY (LUMENS PER WATT): 73.3

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 3.750 INS  
WIDTH: 48.000 INS

LUMINANCE SUMMARY - CD./SQ.M.  
BEAM SIDE

| ANGLE | ALONG | 45   | ACROSS |
|-------|-------|------|--------|
| 45    | 9072  | 7339 | 6591   |
| 55    | 8362  | 6709 | 5945   |
| 65    | 7559  | 6079 | 5391   |
| 75    | 6454  | 5393 | 4816   |
| 85    | 4742  | 4952 | 4502   |

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LIGHTING SCIENCES, INC.  
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INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

BEAM SIDE  
INTENSITY(CANDLEPOWER) DATA

| ANGLE | PLANE |      |      |      |        |         | OUTPUT<br>LUMENS |
|-------|-------|------|------|------|--------|---------|------------------|
|       | ALONG | 67.5 | 45   | 22.5 | ACROSS | AVERAGE |                  |
| 0     | 1261  | 1261 | 1261 | 1261 | 1261   | 1261    |                  |
| 5     | 1254  | 1229 | 1224 | 1213 | 1209   | 1224    | 58               |
| 10    | 1232  | 1190 | 1167 | 1147 | 1142   | 1172    |                  |
| 15    | 1195  | 1136 | 1099 | 1070 | 1064   | 1109    | 155              |
| 20    | 1144  | 1071 | 1024 | 986  | 973    | 1035    |                  |
| 25    | 1081  | 1001 | 943  | 899  | 881    | 956     | 219              |
| 30    | 1007  | 923  | 858  | 805  | 788    | 871     |                  |
| 35    | 925   | 841  | 769  | 717  | 701    | 785     | 245              |
| 40    | 837   | 757  | 684  | 634  | 618    | 700     |                  |
| 45    | 745   | 671  | 600  | 555  | 539    | 617     | 238              |
| 50    | 652   | 585  | 521  | 479  | 464    | 536     |                  |
| 55    | 557   | 498  | 445  | 407  | 395    | 457     | 204              |
| 60    | 464   | 414  | 370  | 337  | 327    | 379     |                  |
| 65    | 371   | 333  | 297  | 272  | 264    | 305     | 151              |
| 70    | 281   | 254  | 229  | 209  | 203    | 234     |                  |
| 75    | 194   | 178  | 162  | 149  | 144    | 164     | 87               |
| 80    | 115   | 109  | 102  | 94   | 91     | 102     |                  |
| 85    | 48    | 50   | 50   | 46   | 45     | 48      | 27               |
| 90    | 0     | 0    | 0    | 0    | 0      | 0       |                  |
| 95    | 50    | 27   | 31   | 34   | 35     | 34      | 19               |
| 100   | 134   | 52   | 58   | 59   | 60     | 66      |                  |
| 105   | 245   | 69   | 89   | 89   | 88     | 103     | 54               |
| 110   | 363   | 102  | 106  | 118  | 118    | 141     |                  |
| 115   | 487   | 180  | 119  | 132  | 136    | 186     | 92               |
| 120   | 605   | 288  | 138  | 145  | 148    | 237     |                  |
| 125   | 721   | 407  | 196  | 157  | 160    | 300     | 135              |
| 130   | 824   | 530  | 299  | 196  | 180    | 382     |                  |
| 135   | 922   | 650  | 424  | 291  | 253    | 488     | 188              |
| 140   | 1010  | 765  | 554  | 416  | 373    | 607     |                  |
| 145   | 1090  | 872  | 684  | 558  | 516    | 729     | 227              |
| 150   | 1158  | 971  | 804  | 694  | 661    | 845     |                  |
| 155   | 1215  | 1059 | 925  | 827  | 793    | 954     | 219              |
| 160   | 1265  | 1140 | 1029 | 959  | 937    | 1057    |                  |
| 165   | 1304  | 1209 | 1135 | 1076 | 1060   | 1151    | 161              |
| 170   | 1334  | 1268 | 1222 | 1183 | 1172   | 1231    |                  |
| 175   | 1352  | 1319 | 1300 | 1276 | 1269   | 1302    | 62               |
| 180   | 1361  | 1361 | 1361 | 1361 | 1361   | 1361    |                  |

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INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

BEAM SIDE  
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

| ANGLE | ALONG        | 67.5         | 45           | 22.5         | ACROSS       |
|-------|--------------|--------------|--------------|--------------|--------------|
| 0     | 10861( 3169) | 10861( 3169) | 10861( 3169) | 10861( 3169) | 10861( 3169) |
| 30    | 10012( 2922) | 9204( 2686)  | 8551( 2495)  | 8023( 2341)  | 7839( 2287)  |
| 40    | 9408( 2746)  | 8528( 2489)  | 7691( 2244)  | 7146( 2085)  | 6950( 2028)  |
| 45    | 9072( 2647)  | 8181( 2387)  | 7339( 2142)  | 6772( 1976)  | 6591( 1923)  |
| 50    | 8734( 2549)  | 7865( 2295)  | 6983( 2038)  | 6437( 1878)  | 6210( 1812)  |
| 55    | 8362( 2440)  | 7493( 2186)  | 6709( 1958)  | 6127( 1788)  | 5945( 1735)  |
| 60    | 7991( 2332)  | 7151( 2087)  | 6376( 1861)  | 5820( 1698)  | 5638( 1645)  |
| 65    | 7559( 2206)  | 6783( 1979)  | 6079( 1774)  | 5563( 1623)  | 5391( 1573)  |
| 70    | 7074( 2064)  | 6417( 1873)  | 5777( 1686)  | 5280( 1541)  | 5121( 1494)  |
| 75    | 6454( 1883)  | 5941( 1734)  | 5393( 1574)  | 4961( 1447)  | 4816( 1405)  |
| 80    | 5702( 1664)  | 5406( 1577)  | 5057( 1476)  | 4682( 1366)  | 4517( 1318)  |
| 85    | 4742( 1384)  | 4987( 1455)  | 4952( 1445)  | 4591( 1339)  | 4502( 1314)  |

LUMINOUS LENGTH: 3.750 INS  
WIDTH: 48.000 INS

LIGHTING SCIENCES, INC.  
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INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

OPPOSITE SIDE TO BEAM  
INTENSITY(CANDLEPOWER) DATA

| ANGLE | PLANE |       |      |       |        |         | OUTPUT<br>LUMENS |
|-------|-------|-------|------|-------|--------|---------|------------------|
|       | ALONG | 112.5 | 135  | 157.5 | ACROSS | AVERAGE |                  |
| 0     | 1261  | 1261  | 1261 | 1261  | 1261   | 1261    |                  |
| 5     | 1254  | 1264  | 1289 | 1301  | 1305   | 1283    | 62               |
| 10    | 1232  | 1258  | 1296 | 1318  | 1327   | 1288    |                  |
| 15    | 1195  | 1237  | 1286 | 1316  | 1328   | 1275    | 180              |
| 20    | 1144  | 1197  | 1256 | 1291  | 1304   | 1242    |                  |
| 25    | 1081  | 1143  | 1207 | 1247  | 1260   | 1192    | 274              |
| 30    | 1007  | 1077  | 1142 | 1184  | 1197   | 1126    |                  |
| 35    | 925   | 998   | 1064 | 1104  | 1118   | 1047    | 327              |
| 40    | 837   | 909   | 975  | 1013  | 1027   | 957     |                  |
| 45    | 745   | 815   | 878  | 913   | 921    | 860     | 331              |
| 50    | 652   | 717   | 775  | 806   | 811    | 757     |                  |
| 55    | 557   | 615   | 667  | 692   | 698    | 650     | 290              |
| 60    | 464   | 513   | 558  | 576   | 582    | 542     |                  |
| 65    | 371   | 413   | 450  | 466   | 471    | 437     | 216              |
| 70    | 281   | 314   | 346  | 355   | 357    | 333     |                  |
| 75    | 194   | 220   | 242  | 246   | 248    | 232     | 123              |
| 80    | 115   | 134   | 147  | 151   | 151    | 141     |                  |
| 85    | 48    | 58    | 65   | 66    | 67     | 62      | 36               |
| 90    | 0     | 0     | 0    | 0     | 0      | 0       |                  |
| 95    | 50    | 353   | 180  | 16    | 14     | 145     | 148              |
| 100   | 134   | 503   | 828  | 1055  | 1139   | 755     |                  |
| 105   | 245   | 621   | 934  | 1164  | 1243   | 866     | 457              |
| 110   | 363   | 737   | 1059 | 1245  | 1321   | 971     |                  |
| 115   | 487   | 869   | 1146 | 1349  | 1421   | 1079    | 532              |
| 120   | 605   | 953   | 1231 | 1414  | 1477   | 1160    |                  |
| 125   | 721   | 1060  | 1306 | 1474  | 1535   | 1242    | 556              |
| 130   | 824   | 1194  | 1386 | 1524  | 1579   | 1326    |                  |
| 135   | 922   | 1261  | 1435 | 1577  | 1622   | 1386    | 534              |
| 140   | 1010  | 1310  | 1464 | 1612  | 1662   | 1431    |                  |
| 145   | 1090  | 1351  | 1547 | 1613  | 1671   | 1473    | 460              |
| 150   | 1158  | 1383  | 1577 | 1635  | 1660   | 1501    |                  |
| 155   | 1215  | 1406  | 1568 | 1665  | 1703   | 1525    | 351              |
| 160   | 1265  | 1416  | 1551 | 1627  | 1659   | 1514    |                  |
| 165   | 1304  | 1413  | 1525 | 1580  | 1602   | 1493    | 211              |
| 170   | 1334  | 1401  | 1485 | 1523  | 1535   | 1461    |                  |
| 175   | 1352  | 1385  | 1425 | 1439  | 1444   | 1412    | 69               |
| 180   | 1361  | 1361  | 1361 | 1361  | 1361   | 1361    |                  |

LIGHTING SCIENCES, INC.  
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INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

OPPOSITE SIDE TO BEAM  
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

| ANGLE | ALONG        | 112.5        | 135          | 157.5        | ACROSS       |
|-------|--------------|--------------|--------------|--------------|--------------|
| 0     | 10861( 3169) | 10861( 3169) | 10861( 3169) | 10861( 3169) | 10861( 3169) |
| 30    | 10012( 2922) | 10736( 3133) | 11384( 3322) | 11796( 3442) | 11898( 3472) |
| 40    | 9408( 2746)  | 10247( 2990) | 10974( 3203) | 11421( 3333) | 11540( 3368) |
| 45    | 9072( 2647)  | 9937( 2900)  | 10734( 3132) | 11152( 3255) | 11256( 3285) |
| 50    | 8734( 2549)  | 9644( 2814)  | 10384( 3030) | 10825( 3159) | 10857( 3169) |
| 55    | 8362( 2440)  | 9249( 2699)  | 10053( 2934) | 10415( 3039) | 10522( 3071) |
| 60    | 7991( 2332)  | 8863( 2587)  | 9614( 2806)  | 9936( 2900)  | 10030( 2927) |
| 65    | 7559( 2206)  | 8412( 2455)  | 9207( 2687)  | 9521( 2778)  | 9627( 2809)  |
| 70    | 7074( 2064)  | 7938( 2317)  | 8723( 2546)  | 8957( 2614)  | 8983( 2621)  |
| 75    | 6454( 1883)  | 7340( 2142)  | 8054( 2350)  | 8226( 2400)  | 8286( 2418)  |
| 80    | 5702( 1664)  | 6675( 1948)  | 7317( 2135)  | 7478( 2182)  | 7498( 2188)  |
| 85    | 4742( 1384)  | 5790( 1689)  | 6478( 1890)  | 6574( 1918)  | 6645( 1939)  |

LUMINOUS LENGTH: 3.750 INS  
WIDTH: 48.000 INS

LIGHTING SCIENCES, INC.  
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INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE,CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC   | 90    |       |       |      | 80    |       |       |      | 70    |       |       |      | 50    |       |      |       | 30    |      |       |       | 10   |      |    |    | 0 |
|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|------|----|----|---|
| WALL | 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    | 1.141 | 1.141 | 1.141 | 1.14 | 1.051 | 1.051 | 1.051 | 1.05 | 0.960 | 0.960 | 0.960 | 0.96 | 0.790 | 0.790 | 0.79 | 0.630 | 0.630 | 0.63 | 0.490 | 0.490 | 0.49 | 0.42 |    |    |   |
| 1    | 1.051 | 1.000 | 0.960 | 0.92 | 0.960 | 0.920 | 0.880 | 0.85 | 0.880 | 0.840 | 0.810 | 0.78 | 0.700 | 0.670 | 0.65 | 0.560 | 0.540 | 0.53 | 0.430 | 0.430 | 0.42 | 0.36 |    |    |   |
| 2    | 0.960 | 0.880 | 0.810 | 0.75 | 0.880 | 0.810 | 0.750 | 0.70 | 0.800 | 0.740 | 0.690 | 0.65 | 0.610 | 0.580 | 0.55 | 0.500 | 0.470 | 0.45 | 0.390 | 0.370 | 0.36 | 0.31 |    |    |   |
| 3    | 0.880 | 0.770 | 0.690 | 0.63 | 0.800 | 0.710 | 0.640 | 0.59 | 0.730 | 0.660 | 0.600 | 0.55 | 0.550 | 0.500 | 0.46 | 0.440 | 0.410 | 0.39 | 0.350 | 0.330 | 0.31 | 0.27 |    |    |   |
| 4    | 0.800 | 0.690 | 0.600 | 0.54 | 0.740 | 0.640 | 0.560 | 0.50 | 0.670 | 0.580 | 0.520 | 0.47 | 0.490 | 0.440 | 0.40 | 0.400 | 0.360 | 0.33 | 0.310 | 0.290 | 0.27 | 0.23 |    |    |   |
| 5    | 0.740 | 0.600 | 0.520 | 0.46 | 0.680 | 0.560 | 0.490 | 0.43 | 0.620 | 0.520 | 0.450 | 0.40 | 0.440 | 0.380 | 0.35 | 0.360 | 0.320 | 0.29 | 0.280 | 0.260 | 0.24 | 0.20 |    |    |   |
| 6    | 0.680 | 0.550 | 0.460 | 0.40 | 0.620 | 0.510 | 0.430 | 0.37 | 0.570 | 0.470 | 0.400 | 0.35 | 0.390 | 0.340 | 0.30 | 0.320 | 0.280 | 0.25 | 0.260 | 0.230 | 0.21 | 0.18 |    |    |   |
| 7    | 0.620 | 0.490 | 0.400 | 0.34 | 0.570 | 0.450 | 0.380 | 0.32 | 0.520 | 0.420 | 0.350 | 0.30 | 0.350 | 0.300 | 0.26 | 0.290 | 0.250 | 0.22 | 0.230 | 0.200 | 0.18 | 0.15 |    |    |   |
| 8    | 0.580 | 0.440 | 0.360 | 0.30 | 0.530 | 0.410 | 0.330 | 0.28 | 0.480 | 0.380 | 0.310 | 0.26 | 0.320 | 0.270 | 0.23 | 0.260 | 0.220 | 0.19 | 0.210 | 0.180 | 0.16 | 0.14 |    |    |   |
| 9    | 0.530 | 0.400 | 0.320 | 0.26 | 0.490 | 0.370 | 0.300 | 0.25 | 0.450 | 0.340 | 0.280 | 0.23 | 0.290 | 0.240 | 0.20 | 0.240 | 0.200 | 0.17 | 0.190 | 0.160 | 0.14 | 0.12 |    |    |   |
| 10   | 0.500 | 0.360 | 0.280 | 0.23 | 0.460 | 0.340 | 0.270 | 0.22 | 0.420 | 0.310 | 0.250 | 0.21 | 0.270 | 0.220 | 0.18 | 0.220 | 0.180 | 0.15 | 0.180 | 0.150 | 0.13 | 0.11 |    |    |   |

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 105.0

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.

LIGHTING SCIENCES, INC.  
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INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

**ELECTRICAL MEASUREMENTS**

|                            |       |          |
|----------------------------|-------|----------|
| INPUT VOLTAGE:             | 120.0 | VOLTS AC |
| INPUT CURRENT:             | 0.879 | AMPS     |
| INPUT POWER:               | 105.0 | WATTS    |
| POWER FACTOR:              | 99.5  | PERCENT  |
| TOTAL HARMONIC DISTORTION: | 5.22  | PERCENT  |
| OFF STATE POWER:           | 0.00  | WATTS    |
|                            |       |          |
| INPUT VOLTAGE:             | 277.0 | VOLTS AC |
| INPUT CURRENT:             | 0.397 | AMPS     |
| INPUT POWER:               | 102.3 | WATTS    |
| POWER FACTOR:              | 93.1  | PERCENT  |
| TOTAL HARMONIC DISTORTION: | 13.61 | PERCENT  |

**LIGHT OUTPUT**

|           |      |      |
|-----------|------|------|
| LUMENS:   | 7700 | lm   |
| EFFICACY: | 73.3 | lm/W |

**SPECTRAL MEASUREMENTS**

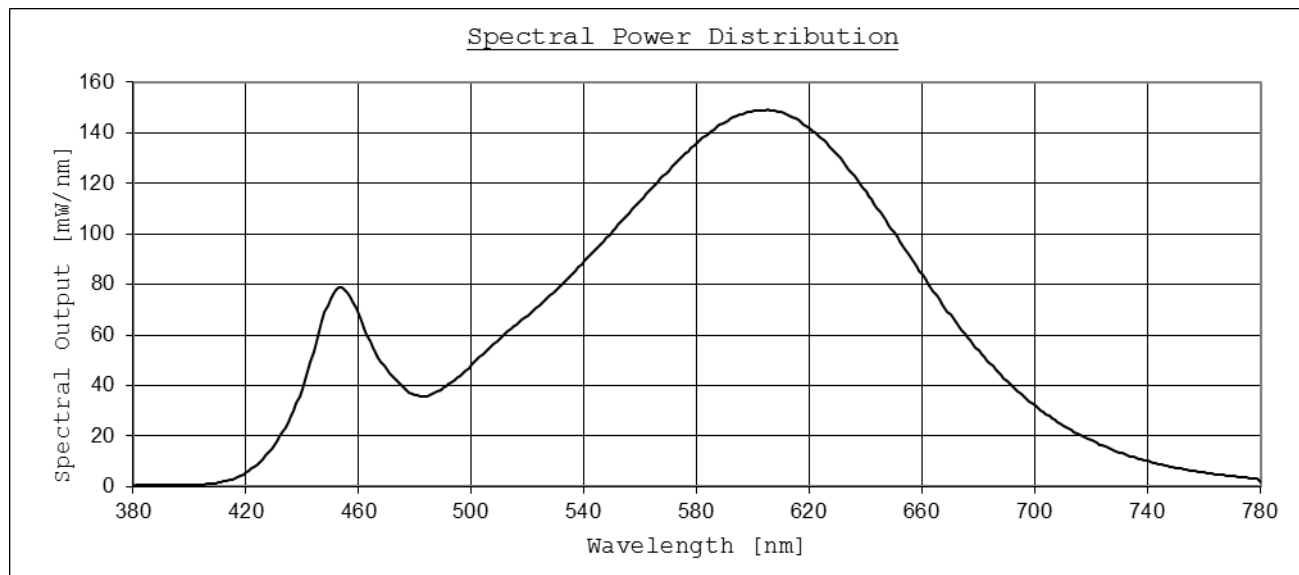
|                        |        |    |
|------------------------|--------|----|
| X:                     | 0.4304 |    |
| y:                     | 0.3987 |    |
| u/u':                  | 0.2486 |    |
| v:                     | 0.3455 |    |
| v':                    | 0.5183 |    |
| Duv:                   | 0.0012 |    |
| CRI (R <sub>a</sub> ): | 83.1   |    |
| CRI (R <sub>g</sub> ): | 17.8   |    |
| CCT:                   | 3067   | K  |
| RADIANT FLUX:          | 24407  | mW |



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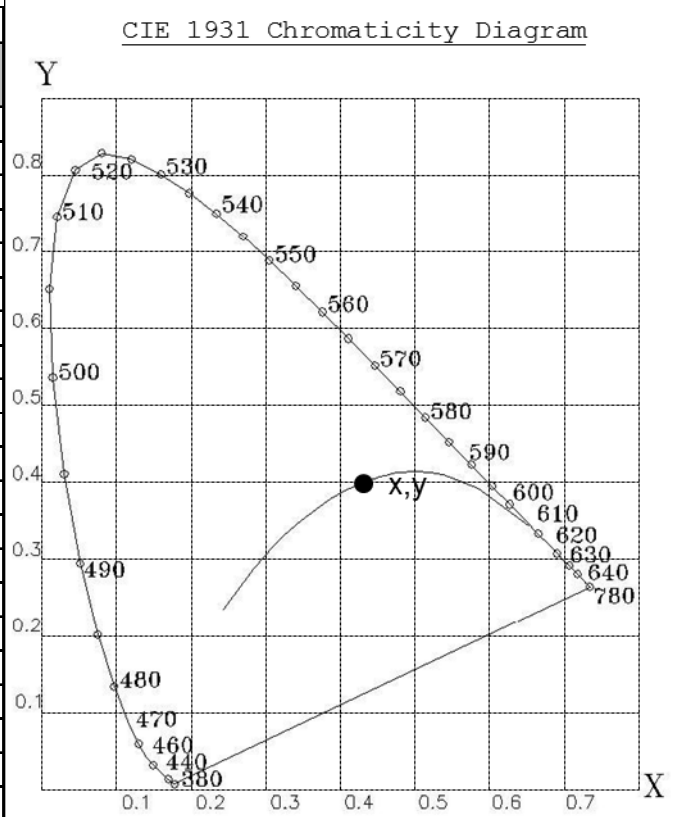
INDEPENDENT TEST LABORATORY REPORT No. 31620A

PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
256 LEDS. LUMINAIRE OUTPUT = 7700 LMS  
TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS



Tabulated Spectral Power Distribution

| Wavelength [nm] | [mW/nm]   | Wavelength [nm] | [mW/nm]   |
|-----------------|-----------|-----------------|-----------|
| 380             | 0.31213   | 590             | 144.25036 |
| 390             | 0.56484   | 600             | 148.70470 |
| 400             | 0.70846   | 610             | 148.07489 |
| 410             | 1.56779   | 620             | 141.67051 |
| 420             | 5.60820   | 630             | 131.06998 |
| 430             | 16.47053  | 640             | 116.67707 |
| 440             | 38.84355  | 650             | 100.48872 |
| 450             | 74.33136  | 660             | 83.75051  |
| 460             | 68.08639  | 670             | 67.91813  |
| 470             | 46.29410  | 680             | 53.87577  |
| 480             | 36.27613  | 690             | 41.93015  |
| 490             | 39.01506  | 700             | 32.08652  |
| 500             | 48.21505  | 710             | 24.26562  |
| 510             | 58.59604  | 720             | 18.25805  |
| 520             | 67.87603  | 730             | 13.60644  |
| 530             | 77.65023  | 740             | 10.14066  |
| 540             | 89.22320  | 750             | 7.49792   |
| 550             | 100.99069 | 760             | 5.58562   |
| 560             | 113.24424 | 770             | 4.14341   |
| 570             | 125.11512 | 780             | 1.55508   |
| 580             | 136.00446 |                 |           |



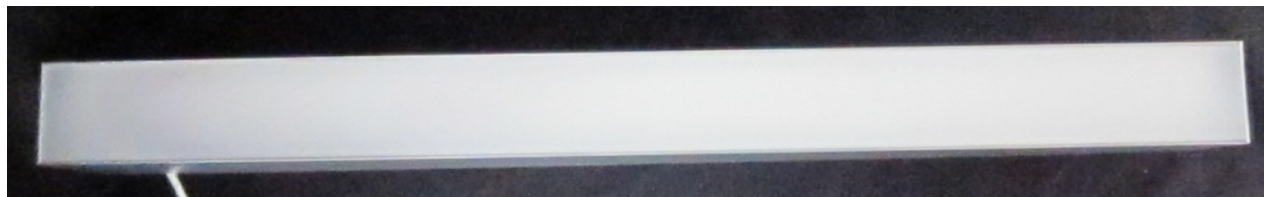
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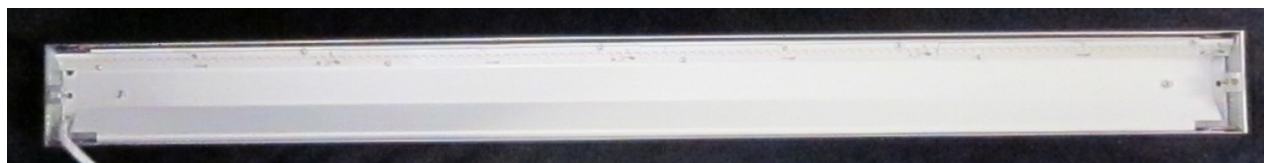
PRUDENTIAL LIGHTING - 4' DIRECT/INDIRECT LED LUMINAIRE, CAT# P46-LED3HO-04-SAL  
WITH WHITE INTERIOR AND FROSTED PLASTIC FLAT LENS  
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TWO EPTRONICS LD50W-29-C1750-RD DRIVERS OPERATING AT 120 VAC AND 105 WATTS

LUMINOUS OPENING BOTTOM

SIDE VIEW



LUMINOUS OPENING TOP



**All testing was conducted in accordance with LM-79-08,**

Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products as published by the Illuminating Engineering Society of North America (IESNA).

The condition of the item tested was new. Stabilization time before testing meets the stabilization requirements of LM-79-08.

The test results (luminous distribution and flux) were obtained by using a Lighting Sciences series 6000 Type C Moving Mirror Goniophotometer

- The photometric reference standard used is a set of three incandescent luminous intensity standard lamps calibrated and traceable to the U.S. National Institute of Standards and Technology.

The test results (colorimetric and luminous flux) were obtained by using a Labsphere Model LMS-760 Integrating Sphere.  $4\pi$  geometry was used. Correction factors were applied for self-absorption.

- The colorimetric & photometric reference standard used is an incandescent spectral flux standard lamp calibrated and traceable to the U.S. National Institute of Standards and Technology.

Power measurements were obtained with a Yokogawa WT210 power analyzer.

Ambient temperature during testing was  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ , measured using an Omega model DP460.

Calibration certificates are on file at the laboratories of Lighting Sciences Inc.

The results in this report apply to the test sample(s) mentioned in this report at the time of the testing period only and are not to be used to indicate applicability to other similar products.