

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P155590

Luminaire Tested: **TLM-E03-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155590
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E03-LED-E1-T3
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

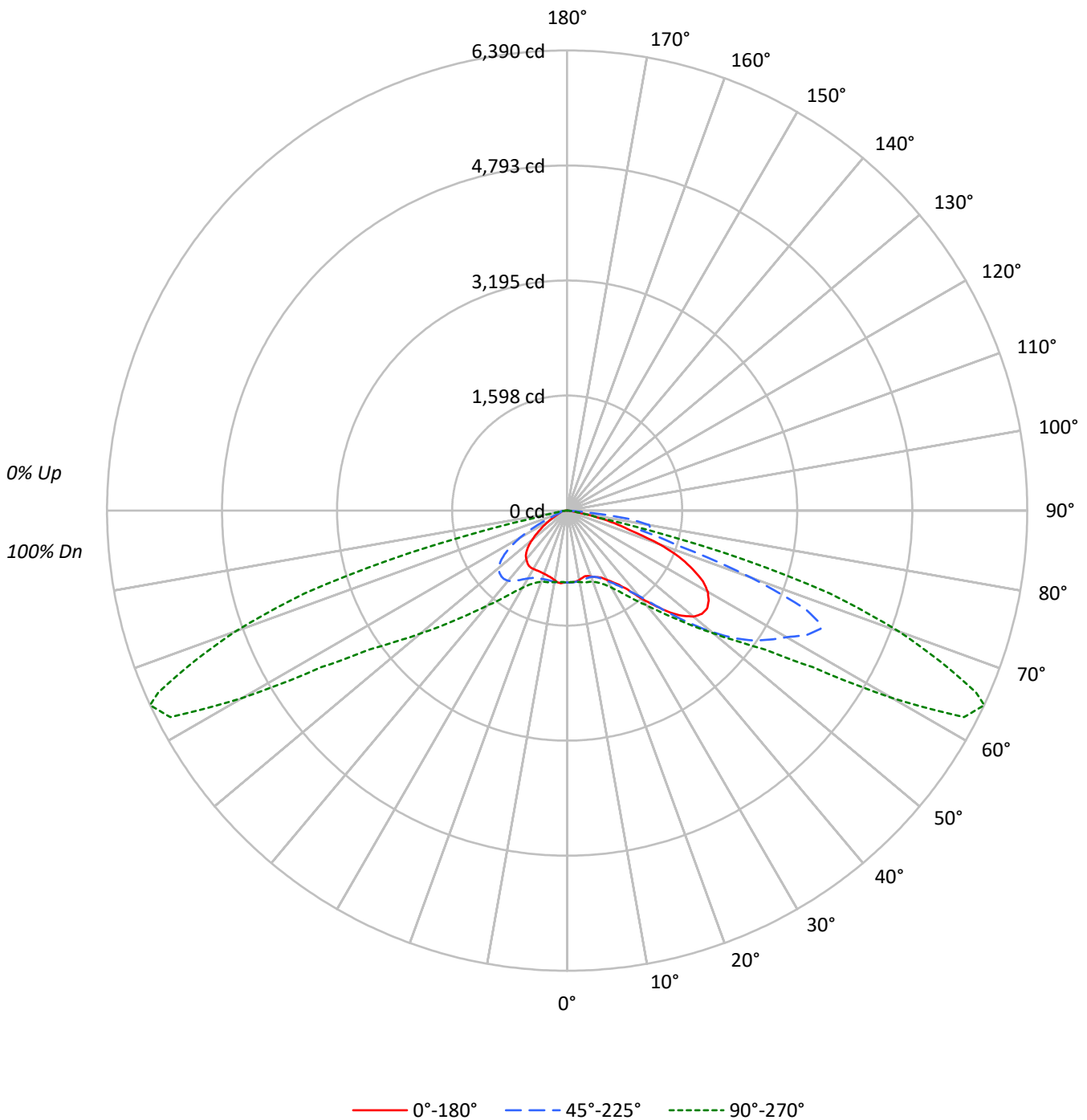
Lumens per Lamp: N/A
Luminaire Lumens: 9251.8 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P155590
CATALOG NUMBER: TLM-E03-LED-E1-T3

Luminous Intensity Polar Plot





TEST NUMBER: P155590

CATALOG NUMBER: TLM-E03-LED-E1-T3

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 87 | 92 | 88 | 84 | 88 | 85 | 82 | 85 | 82 | 79 | 77 |
| 2 | 92 | 82 | 73 | 65 | 89 | 80 | 71 | 64 | 76 | 69 | 63 | 72 | 66 | 61 | 69 | 64 | 60 | 57 |
| 3 | 81 | 68 | 57 | 49 | 79 | 66 | 56 | 49 | 63 | 55 | 48 | 60 | 53 | 47 | 57 | 51 | 46 | 43 |
| 4 | 73 | 57 | 46 | 38 | 70 | 56 | 46 | 38 | 53 | 44 | 37 | 51 | 43 | 36 | 48 | 41 | 36 | 33 |
| 5 | 65 | 49 | 38 | 30 | 63 | 48 | 38 | 30 | 46 | 37 | 29 | 44 | 35 | 29 | 42 | 34 | 29 | 26 |
| 6 | 59 | 43 | 32 | 24 | 57 | 42 | 32 | 24 | 40 | 31 | 24 | 38 | 30 | 24 | 36 | 29 | 23 | 21 |
| 7 | 54 | 38 | 28 | 20 | 52 | 37 | 27 | 20 | 35 | 27 | 20 | 34 | 26 | 20 | 32 | 25 | 20 | 17 |
| 8 | 50 | 34 | 24 | 17 | 48 | 33 | 24 | 17 | 32 | 23 | 17 | 30 | 23 | 17 | 29 | 22 | 17 | 14 |
| 9 | 46 | 31 | 21 | 15 | 45 | 30 | 21 | 15 | 29 | 20 | 15 | 28 | 20 | 15 | 27 | 20 | 14 | 12 |
| 10 | 43 | 28 | 19 | 13 | 42 | 27 | 19 | 13 | 26 | 18 | 13 | 25 | 18 | 13 | 24 | 18 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 21463 | 21463 | 21463 |
| 5° | 21545 | 21524 | 21869 |
| 10° | 21357 | 22013 | 21488 |
| 15° | 21039 | 22978 | 21173 |
| 20° | 22337 | 24124 | 21375 |
| 25° | 24228 | 26461 | 22043 |
| 30° | 27617 | 30774 | 23292 |
| 35° | 33114 | 37739 | 24494 |
| 40° | 44346 | 48308 | 24786 |
| 45° | 60585 | 64330 | 24265 |
| 50° | 76662 | 88819 | 21334 |
| 55° | 89065 | 126447 | 16965 |
| 60° | 97047 | 223631 | 12874 |
| 65° | 97956 | 325501 | 9729 |
| 70° | 85854 | 308296 | 8120 |
| 75° | 56727 | 186566 | 8318 |
| 80° | 20704 | 18968 | 9794 |
| 85° | 3458 | 12597 | 10868 |



TEST NUMBER: P155590

CATALOG NUMBER: TLM-E03-LED-E1-T3

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.5 | 1.0 |
| 10°-20° | 281.8 | 3.0 |
| 20°-30° | 484.4 | 5.2 |
| 30°-40° | 786.5 | 8.5 |
| 40°-50° | 1313.0 | 14.2 |
| 50°-60° | 2067.5 | 22.3 |
| 60°-70° | 2819.2 | 30.5 |
| 70°-80° | 1220.4 | 13.2 |
| 80°-90° | 183.5 | 2.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 861.7 | 9.3 |
| 0°-40° | 1648.1 | 17.8 |
| 0°-60° | 5028.6 | 54.4 |
| 0°-90° | 9251.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9251.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 997 | 997 | 997 | 997 | 997 | |
| 5° | 997 | 999 | 996 | 1008 | 1012 | 95 |
| 15° | 944 | 983 | 1031 | 1001 | 950 | 271 |
| 25° | 1020 | 1026 | 1114 | 1034 | 928 | 478 |
| 35° | 1260 | 1288 | 1436 | 1182 | 932 | 816 |
| 45° | 1990 | 2016 | 2113 | 1293 | 797 | 1530 |
| 55° | 2373 | 3143 | 3369 | 1065 | 452 | 2093 |
| 65° | 1923 | 3885 | 6390 | 374 | 191 | 1867 |
| 75° | 682 | 1062 | 2243 | 101 | 100 | 729 |
| 85° | 14 | 236 | 51 | 70 | 44 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P155590

CATALOG NUMBER: TLM-E03-LED-E1-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 |
| 2.5° | 1001 | 1005 | 1001 | 1002 | 1003 | 1002 | 1001 | 1001 | 998 | 1000 | 1002 |
| 5° | 997 | 1000 | 999 | 1000 | 1001 | 1000 | 999 | 1000 | 998 | 999 | 1002 |
| 7.5° | 992 | 991 | 992 | 994 | 996 | 996 | 996 | 997 | 996 | 996 | 999 |
| 10° | 977 | 978 | 980 | 983 | 984 | 987 | 987 | 990 | 991 | 993 | 997 |
| 12.5° | 958 | 959 | 961 | 963 | 968 | 973 | 973 | 980 | 983 | 988 | 995 |
| 15° | 944 | 945 | 947 | 949 | 953 | 958 | 961 | 969 | 974 | 983 | 993 |
| 17.5° | 952 | 951 | 953 | 954 | 954 | 958 | 958 | 964 | 970 | 978 | 991 |
| 20° | 975 | 975 | 977 | 977 | 976 | 978 | 974 | 974 | 975 | 979 | 988 |
| 22.5° | 998 | 997 | 1001 | 1003 | 1004 | 1007 | 1003 | 1002 | 997 | 994 | 997 |
| 25° | 1020 | 1019 | 1024 | 1027 | 1032 | 1035 | 1035 | 1035 | 1031 | 1026 | 1023 |
| 27.5° | 1054 | 1054 | 1059 | 1062 | 1066 | 1072 | 1075 | 1075 | 1076 | 1069 | 1064 |
| 30° | 1111 | 1112 | 1113 | 1117 | 1121 | 1123 | 1127 | 1130 | 1133 | 1129 | 1121 |
| 32.5° | 1179 | 1173 | 1173 | 1179 | 1184 | 1190 | 1192 | 1196 | 1202 | 1199 | 1198 |
| 35° | 1260 | 1258 | 1256 | 1258 | 1264 | 1271 | 1279 | 1286 | 1282 | 1288 | 1285 |
| 37.5° | 1380 | 1382 | 1383 | 1383 | 1382 | 1384 | 1388 | 1395 | 1393 | 1395 | 1399 |
| 40° | 1578 | 1571 | 1564 | 1565 | 1555 | 1557 | 1541 | 1548 | 1549 | 1542 | 1545 |
| 42.5° | 1776 | 1780 | 1783 | 1791 | 1784 | 1780 | 1765 | 1765 | 1757 | 1750 | 1748 |
| 45° | 1990 | 1998 | 1999 | 2015 | 2009 | 2022 | 2033 | 2030 | 2017 | 2016 | 2002 |
| 47.5° | 2161 | 2174 | 2188 | 2207 | 2222 | 2251 | 2285 | 2302 | 2312 | 2320 | 2304 |
| 50° | 2289 | 2295 | 2331 | 2361 | 2394 | 2442 | 2489 | 2550 | 2599 | 2622 | 2644 |
| 52.5° | 2358 | 2373 | 2412 | 2459 | 2517 | 2589 | 2665 | 2762 | 2846 | 2902 | 2952 |
| 55° | 2373 | 2388 | 2432 | 2492 | 2571 | 2668 | 2777 | 2909 | 3035 | 3143 | 3248 |
| 57.5° | 2331 | 2348 | 2395 | 2464 | 2557 | 2675 | 2812 | 2985 | 3159 | 3334 | 3489 |
| 60° | 2254 | 2275 | 2318 | 2386 | 2489 | 2622 | 2786 | 3003 | 3247 | 3515 | 3812 |
| 62.5° | 2127 | 2149 | 2189 | 2264 | 2370 | 2517 | 2707 | 2977 | 3322 | 3744 | 4271 |
| 65° | 1923 | 1933 | 1982 | 2058 | 2152 | 2314 | 2523 | 2849 | 3298 | 3885 | 4611 |
| 66° | 1831 | 1848 | 1878 | 1939 | 2029 | 2181 | 2391 | 2722 | 3207 | 3836 | 4602 |
| 67.5° | 1687 | 1700 | 1720 | 1761 | 1816 | 1928 | 2127 | 2440 | 2929 | 3588 | 4411 |
| 70° | 1364 | 1370 | 1397 | 1411 | 1430 | 1467 | 1539 | 1719 | 2100 | 2719 | 3560 |
| 72.5° | 930 | 947 | 976 | 1016 | 1068 | 1118 | 1152 | 1175 | 1257 | 1622 | 2372 |
| 75° | 682 | 700 | 737 | 790 | 881 | 985 | 1093 | 1143 | 1109 | 1062 | 1321 |
| 77.5° | 396 | 420 | 451 | 502 | 586 | 724 | 909 | 1073 | 1184 | 1191 | 1131 |
| 80° | 167 | 170 | 189 | 215 | 267 | 364 | 508 | 744 | 990 | 1156 | 1195 |
| 82.5° | 38 | 47 | 60 | 71 | 87 | 120 | 178 | 296 | 535 | 839 | 1094 |
| 85° | 14 | 14 | 19 | 28 | 32 | 36 | 47 | 75 | 128 | 236 | 492 |
| 87.5° | 0 | 1 | 2 | 2 | 4 | 5 | 8 | 11 | 10 | 9 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P155590

CATALOG NUMBER: TLM-E03-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|------|------|------|-------|------|------|------|------|------|------|------|
| 0° | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 |
| 2.5° | 1000 | 999 | 997 | 997 | 997 | 997 | 995 | 996 | 994 | 995 | 995 |
| 5° | 999 | 999 | 998 | 996 | 997 | 997 | 998 | 996 | 996 | 997 | 996 |
| 7.5° | 999 | 998 | 998 | 998 | 999 | 998 | 999 | 999 | 999 | 1000 | 1000 |
| 10° | 999 | 999 | 1001 | 1002 | 1002 | 1003 | 1006 | 1006 | 1007 | 1008 | 1010 |
| 12.5° | 1000 | 1004 | 1007 | 1010 | 1011 | 1013 | 1018 | 1018 | 1020 | 1023 | 1024 |
| 15° | 1001 | 1007 | 1013 | 1015 | 1017 | 1021 | 1026 | 1028 | 1031 | 1034 | 1036 |
| 17.5° | 1000 | 1008 | 1015 | 1018 | 1021 | 1026 | 1032 | 1034 | 1038 | 1042 | 1046 |
| 20° | 999 | 1010 | 1021 | 1025 | 1029 | 1036 | 1044 | 1049 | 1053 | 1059 | 1063 |
| 22.5° | 1005 | 1018 | 1033 | 1039 | 1046 | 1055 | 1066 | 1072 | 1077 | 1083 | 1086 |
| 25° | 1024 | 1034 | 1052 | 1062 | 1071 | 1086 | 1101 | 1108 | 1114 | 1119 | 1120 |
| 27.5° | 1056 | 1059 | 1081 | 1094 | 1107 | 1131 | 1149 | 1154 | 1165 | 1169 | 1168 |
| 30° | 1108 | 1103 | 1121 | 1141 | 1160 | 1193 | 1215 | 1228 | 1238 | 1238 | 1230 |
| 32.5° | 1183 | 1175 | 1180 | 1203 | 1225 | 1273 | 1299 | 1316 | 1323 | 1321 | 1304 |
| 35° | 1281 | 1276 | 1273 | 1291 | 1326 | 1382 | 1416 | 1425 | 1436 | 1434 | 1412 |
| 37.5° | 1397 | 1393 | 1393 | 1414 | 1448 | 1531 | 1568 | 1574 | 1573 | 1557 | 1516 |
| 40° | 1534 | 1532 | 1523 | 1535 | 1564 | 1672 | 1722 | 1730 | 1719 | 1693 | 1645 |
| 42.5° | 1731 | 1719 | 1691 | 1698 | 1720 | 1825 | 1890 | 1912 | 1901 | 1875 | 1797 |
| 45° | 1988 | 1975 | 1928 | 1922 | 1934 | 2026 | 2110 | 2115 | 2113 | 2080 | 1988 |
| 47.5° | 2290 | 2270 | 2220 | 2204 | 2200 | 2285 | 2366 | 2374 | 2369 | 2320 | 2197 |
| 50° | 2617 | 2588 | 2555 | 2544 | 2528 | 2589 | 2671 | 2672 | 2652 | 2584 | 2469 |
| 52.5° | 2966 | 2956 | 2950 | 2939 | 2932 | 2985 | 3035 | 3005 | 2975 | 2904 | 2804 |
| 55° | 3318 | 3359 | 3401 | 3405 | 3417 | 3474 | 3473 | 3391 | 3369 | 3330 | 3231 |
| 57.5° | 3692 | 3844 | 3976 | 4017 | 4057 | 4163 | 4153 | 4072 | 4044 | 3996 | 3914 |
| 60° | 4201 | 4611 | 4992 | 5083 | 5146 | 5273 | 5261 | 5136 | 5194 | 5190 | 5084 |
| 62.5° | 4914 | 5596 | 6167 | 6307 | 6351 | 6365 | 6289 | 6154 | 6211 | 6275 | 5949 |
| 65° | 5397 | 6199 | 6785 | 6893 | 6899 | 6732 | 6563 | 6404 | 6390 | 6335 | 5869 |
| 66° | 5408 | 6229 | 6817 | 6922 | 6885 | 6657 | 6443 | 6283 | 6214 | 6093 | 5610 |
| 67.5° | 5214 | 6042 | 6675 | 6786 | 6705 | 6382 | 6087 | 5881 | 5746 | 5550 | 5124 |
| 70° | 4379 | 5200 | 5980 | 6187 | 6213 | 5731 | 5322 | 5080 | 4898 | 4629 | 4262 |
| 72.5° | 3256 | 3998 | 4686 | 4884 | 4985 | 4600 | 4255 | 4071 | 3822 | 3539 | 3278 |
| 75° | 2041 | 2565 | 3026 | 3165 | 3070 | 2772 | 2565 | 2488 | 2243 | 2074 | 1955 |
| 77.5° | 1167 | 1331 | 1368 | 1315 | 1203 | 921 | 655 | 485 | 421 | 466 | 514 |
| 80° | 1139 | 1044 | 832 | 732 | 663 | 456 | 268 | 184 | 153 | 157 | 170 |
| 82.5° | 1234 | 1324 | 1090 | 889 | 746 | 504 | 278 | 148 | 100 | 118 | 133 |
| 85° | 802 | 1116 | 1005 | 847 | 686 | 431 | 229 | 77 | 51 | 67 | 92 |
| 87.5° | 81 | 89 | 76 | 103 | 77 | 36 | 18 | 11 | 10 | 12 | 18 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P155590

CATALOG NUMBER: TLM-E03-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 | 997 |
| 2.5° | 996 | 996 | 997 | 998 | 999 | 1000 | 1000 | 1000 | 1000 | 1002 | 1001 |
| 5° | 998 | 1000 | 1002 | 1003 | 1005 | 1005 | 1008 | 1007 | 1007 | 1010 | 1011 |
| 7.5° | 1002 | 1005 | 1009 | 1008 | 1012 | 1011 | 1013 | 1013 | 1010 | 1011 | 1009 |
| 10° | 1011 | 1015 | 1017 | 1014 | 1015 | 1011 | 1010 | 1005 | 999 | 996 | 992 |
| 12.5° | 1026 | 1030 | 1030 | 1025 | 1019 | 1010 | 1003 | 992 | 983 | 978 | 973 |
| 15° | 1039 | 1043 | 1042 | 1034 | 1025 | 1011 | 1001 | 988 | 975 | 967 | 962 |
| 17.5° | 1049 | 1051 | 1048 | 1037 | 1027 | 1014 | 1004 | 990 | 975 | 965 | 956 |
| 20° | 1064 | 1062 | 1055 | 1041 | 1030 | 1018 | 1010 | 998 | 981 | 968 | 955 |
| 22.5° | 1086 | 1078 | 1065 | 1050 | 1039 | 1028 | 1020 | 1007 | 990 | 974 | 959 |
| 25° | 1115 | 1099 | 1081 | 1065 | 1055 | 1043 | 1034 | 1020 | 1002 | 984 | 966 |
| 27.5° | 1157 | 1129 | 1106 | 1092 | 1081 | 1066 | 1055 | 1037 | 1018 | 997 | 977 |
| 30° | 1204 | 1166 | 1144 | 1133 | 1121 | 1105 | 1088 | 1065 | 1043 | 1020 | 996 |
| 32.5° | 1265 | 1219 | 1198 | 1187 | 1171 | 1151 | 1131 | 1105 | 1074 | 1044 | 1015 |
| 35° | 1345 | 1298 | 1276 | 1259 | 1237 | 1211 | 1182 | 1147 | 1105 | 1065 | 1028 |
| 37.5° | 1431 | 1380 | 1359 | 1341 | 1308 | 1274 | 1233 | 1182 | 1125 | 1072 | 1026 |
| 40° | 1540 | 1493 | 1466 | 1435 | 1396 | 1337 | 1273 | 1199 | 1126 | 1061 | 1007 |
| 42.5° | 1678 | 1631 | 1591 | 1542 | 1474 | 1383 | 1292 | 1196 | 1108 | 1034 | 976 |
| 45° | 1861 | 1804 | 1735 | 1649 | 1539 | 1412 | 1293 | 1177 | 1074 | 992 | 930 |
| 47.5° | 2085 | 1998 | 1885 | 1740 | 1582 | 1420 | 1277 | 1139 | 1021 | 932 | 863 |
| 50° | 2351 | 2214 | 2028 | 1815 | 1604 | 1408 | 1237 | 1082 | 946 | 851 | 769 |
| 52.5° | 2655 | 2431 | 2157 | 1869 | 1603 | 1368 | 1169 | 996 | 848 | 742 | 664 |
| 55° | 3012 | 2679 | 2290 | 1909 | 1575 | 1294 | 1065 | 875 | 727 | 629 | 557 |
| 57.5° | 3535 | 3081 | 2522 | 1971 | 1519 | 1180 | 924 | 730 | 600 | 507 | 446 |
| 60° | 4491 | 3752 | 2940 | 2096 | 1433 | 1013 | 759 | 575 | 466 | 391 | 350 |
| 62.5° | 5211 | 4271 | 3166 | 2068 | 1260 | 807 | 563 | 419 | 343 | 292 | 266 |
| 65° | 5108 | 4110 | 2925 | 1781 | 988 | 569 | 374 | 285 | 236 | 212 | 197 |
| 66° | 4875 | 3900 | 2716 | 1603 | 854 | 473 | 308 | 239 | 203 | 186 | 176 |
| 67.5° | 4433 | 3510 | 2342 | 1314 | 656 | 343 | 232 | 189 | 165 | 158 | 151 |
| 70° | 3685 | 2799 | 1644 | 765 | 335 | 191 | 147 | 132 | 126 | 125 | 123 |
| 72.5° | 2824 | 1981 | 968 | 362 | 174 | 127 | 114 | 109 | 107 | 107 | 108 |
| 75° | 1731 | 1113 | 428 | 177 | 122 | 107 | 101 | 99 | 98 | 99 | 98 |
| 77.5° | 578 | 354 | 183 | 134 | 111 | 99 | 95 | 93 | 93 | 93 | 93 |
| 80° | 177 | 154 | 140 | 124 | 105 | 94 | 88 | 87 | 88 | 89 | 86 |
| 82.5° | 133 | 126 | 118 | 110 | 95 | 84 | 82 | 82 | 82 | 79 | 75 |
| 85° | 98 | 97 | 80 | 75 | 70 | 70 | 70 | 70 | 67 | 62 | 58 |
| 87.5° | 18 | 17 | 18 | 19 | 28 | 30 | 30 | 32 | 35 | 33 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P155590

CATALOG NUMBER: TLM-E03-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|------|------|------|------|------|
| 0° | 997 | 997 | 997 | 997 | 997 |
| 2.5° | 1001 | 1000 | 1003 | 1001 | 1002 |
| 5° | 1010 | 1009 | 1011 | 1009 | 1012 |
| 7.5° | 1007 | 1005 | 1004 | 1005 | 1006 |
| 10° | 986 | 984 | 983 | 982 | 983 |
| 12.5° | 968 | 964 | 964 | 962 | 963 |
| 15° | 955 | 952 | 951 | 949 | 950 |
| 17.5° | 949 | 944 | 942 | 940 | 940 |
| 20° | 945 | 939 | 936 | 934 | 933 |
| 22.5° | 945 | 936 | 932 | 930 | 929 |
| 25° | 949 | 938 | 932 | 929 | 928 |
| 27.5° | 957 | 943 | 936 | 932 | 932 |
| 30° | 971 | 953 | 943 | 938 | 937 |
| 32.5° | 985 | 961 | 947 | 941 | 939 |
| 35° | 992 | 961 | 944 | 934 | 932 |
| 37.5° | 984 | 948 | 927 | 912 | 909 |
| 40° | 959 | 921 | 898 | 884 | 882 |
| 42.5° | 926 | 889 | 862 | 852 | 849 |
| 45° | 881 | 837 | 810 | 796 | 797 |
| 47.5° | 804 | 759 | 735 | 722 | 724 |
| 50° | 713 | 669 | 648 | 634 | 637 |
| 52.5° | 613 | 573 | 553 | 546 | 544 |
| 55° | 508 | 477 | 463 | 455 | 452 |
| 57.5° | 412 | 390 | 380 | 370 | 371 |
| 60° | 325 | 314 | 311 | 300 | 299 |
| 62.5° | 256 | 249 | 246 | 238 | 239 |
| 65° | 194 | 192 | 194 | 189 | 191 |
| 66° | 175 | 176 | 176 | 173 | 175 |
| 67.5° | 151 | 153 | 156 | 153 | 155 |
| 70° | 125 | 127 | 129 | 129 | 129 |
| 72.5° | 109 | 111 | 112 | 112 | 112 |
| 75° | 100 | 101 | 102 | 100 | 100 |
| 77.5° | 94 | 94 | 92 | 91 | 90 |
| 80° | 85 | 84 | 81 | 79 | 79 |
| 82.5° | 71 | 69 | 67 | 64 | 64 |
| 85° | 54 | 52 | 50 | 46 | 44 |
| 87.5° | 28 | 29 | 28 | 23 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)