

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: P151813

Luminaire Tested: **TLM-F04-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P151813
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F04-LED-E1-SL4-HSS-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

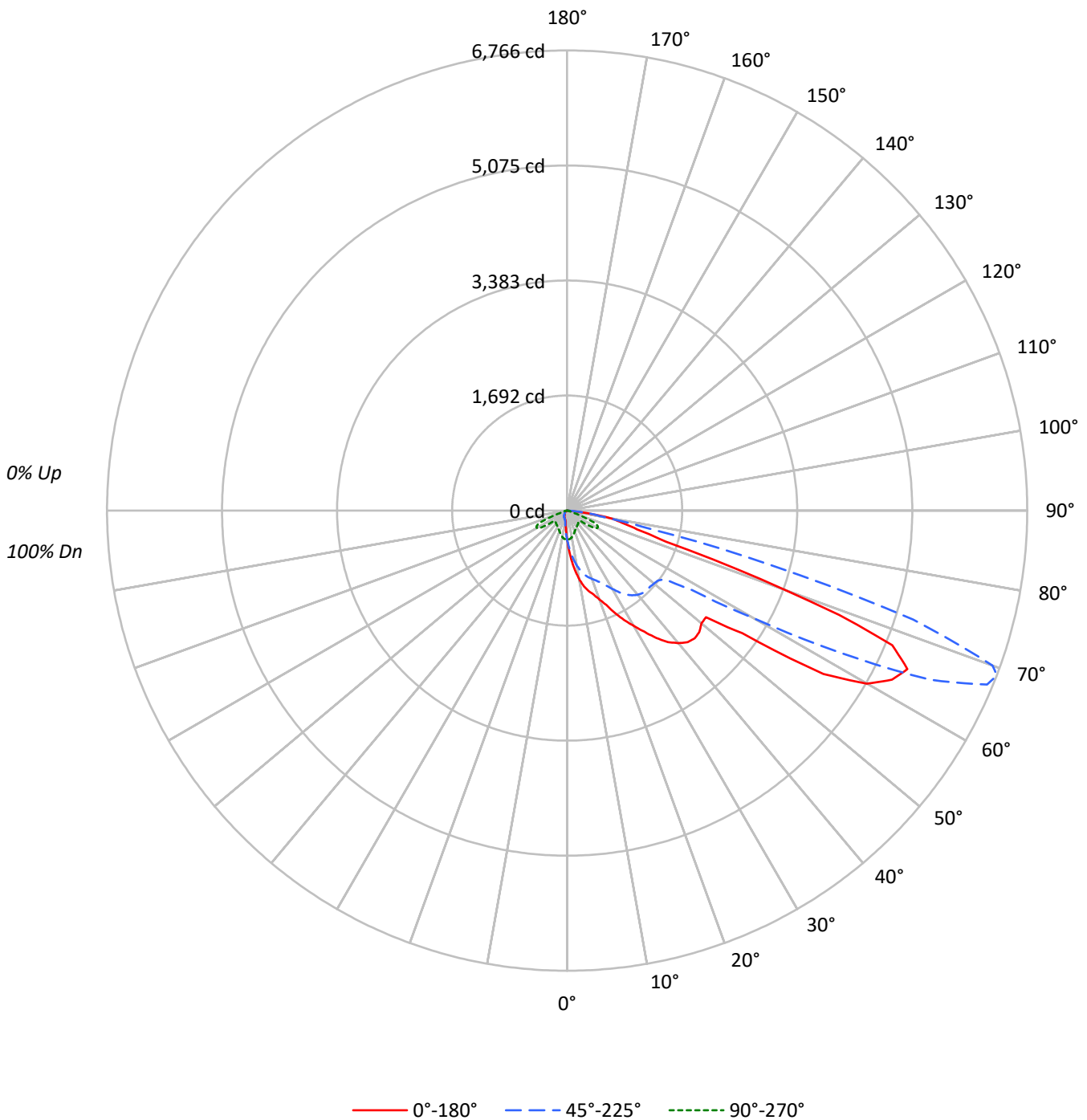
Lumens per Lamp: N/A
Luminaire Lumens: 5670.9 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P151813
CATALOG NUMBER: TLM-F04-LED-E1-SL4-HSS-8030

Luminous Intensity Polar Plot





TEST NUMBER: P151813

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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 | 93 | 88 | 102 | 96 | 91 | 86 | 92 | 87 | 83 | 88 | 84 | 81 | 84 | 81 | 78 | 76 |
| 2 | 91 | 80 | 71 | 63 | 88 | 78 | 70 | 62 | 74 | 67 | 61 | 71 | 65 | 59 | 68 | 62 | 58 | 55 |
| 3 | 80 | 66 | 55 | 47 | 77 | 64 | 54 | 46 | 61 | 52 | 45 | 58 | 51 | 44 | 55 | 49 | 43 | 41 |
| 4 | 71 | 56 | 44 | 36 | 68 | 54 | 44 | 35 | 51 | 42 | 35 | 49 | 41 | 34 | 46 | 39 | 33 | 31 |
| 5 | 64 | 48 | 36 | 28 | 61 | 46 | 36 | 28 | 44 | 35 | 27 | 42 | 33 | 27 | 40 | 32 | 27 | 24 |
| 6 | 58 | 42 | 31 | 23 | 56 | 40 | 30 | 22 | 38 | 29 | 22 | 37 | 28 | 22 | 35 | 27 | 22 | 19 |
| 7 | 53 | 37 | 26 | 19 | 51 | 36 | 26 | 19 | 34 | 25 | 18 | 32 | 24 | 18 | 31 | 24 | 18 | 16 |
| 8 | 49 | 33 | 23 | 16 | 47 | 32 | 22 | 16 | 31 | 22 | 16 | 29 | 21 | 15 | 28 | 21 | 15 | 13 |
| 9 | 45 | 30 | 20 | 14 | 44 | 29 | 20 | 14 | 28 | 19 | 13 | 27 | 19 | 13 | 25 | 18 | 13 | 11 |
| 10 | 42 | 27 | 18 | 12 | 41 | 27 | 18 | 12 | 25 | 17 | 12 | 24 | 17 | 12 | 23 | 17 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|------|
| 0° | 6881 | 6881 | 6881 |
| 5° | 11760 | 6786 | 3611 |
| 10° | 16746 | 6486 | 2318 |
| 15° | 20365 | 5964 | 2101 |
| 20° | 23761 | 5558 | 1906 |
| 25° | 29412 | 5320 | 1680 |
| 30° | 36293 | 5205 | 1430 |
| 35° | 44858 | 5156 | 1202 |
| 40° | 53363 | 5241 | 1112 |
| 45° | 60322 | 5466 | 1141 |
| 50° | 64456 | 6013 | 1045 |
| 55° | 88078 | 10408 | 625 |
| 60° | 163544 | 16506 | 447 |
| 65° | 209839 | 17833 | 422 |
| 70° | 158443 | 7375 | 479 |
| 75° | 65971 | 2824 | 577 |
| 80° | 60248 | 2665 | 777 |
| 85° | 5309 | 2396 | 1364 |



TEST NUMBER: P151813

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 0.8 |
| 10°-20° | 151.8 | 2.7 |
| 20°-30° | 290.5 | 5.1 |
| 30°-40° | 483.1 | 8.5 |
| 40°-50° | 653.7 | 11.5 |
| 50°-60° | 1022.3 | 18.0 |
| 60°-70° | 2101.7 | 37.1 |
| 70°-80° | 845.7 | 14.9 |
| 80°-90° | 78.2 | 1.4 |
| 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° | 486.3 | 8.6 |
| 0°-40° | 969.3 | 17.1 |
| 0°-60° | 2645.2 | 46.6 |
| 0°-90° | 5670.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5670.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 428 | 428 | 428 | 428 | 428 | |
| 5° | 729 | 621 | 421 | 268 | 224 | 79 |
| 15° | 1224 | 971 | 359 | 133 | 126 | 350 |
| 25° | 1659 | 1169 | 300 | 106 | 95 | 777 |
| 35° | 2287 | 1509 | 263 | 75 | 61 | 1434 |
| 45° | 2655 | 1652 | 241 | 49 | 50 | 2029 |
| 55° | 3145 | 1756 | 372 | 32 | 22 | 3171 |
| 65° | 5520 | 5886 | 469 | 16 | 11 | 5057 |
| 75° | 1063 | 3099 | 46 | 6 | 9 | 1425 |
| 85° | 29 | 124 | 13 | 5 | 7 | 178 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P151813

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 |
| 2.5° | 571.3 | 564.8 | 557.4 | 557.4 | 548.1 | 548.1 | 542.5 | 527.7 | 525.8 | 517.4 | 509.1 |
| 5° | 729.2 | 723.7 | 714.4 | 706.0 | 698.6 | 685.6 | 676.3 | 658.6 | 639.1 | 620.6 | 603.8 |
| 7.5° | 883.5 | 880.7 | 864.0 | 861.2 | 849.1 | 827.7 | 809.1 | 783.1 | 749.7 | 723.7 | 693.0 |
| 10° | 1026.5 | 1020.0 | 1016.3 | 1000.5 | 982.9 | 959.6 | 930.8 | 899.3 | 860.2 | 819.4 | 775.7 |
| 12.5° | 1139.9 | 1136.1 | 1119.4 | 1112.9 | 1094.3 | 1071.1 | 1034.9 | 994.0 | 955.0 | 902.0 | 850.9 |
| 15° | 1224.4 | 1217.9 | 1206.7 | 1196.5 | 1174.2 | 1153.8 | 1120.4 | 1075.8 | 1028.4 | 970.8 | 909.5 |
| 17.5° | 1295.0 | 1282.9 | 1280.1 | 1264.3 | 1241.1 | 1217.0 | 1179.8 | 1138.9 | 1083.2 | 1025.6 | 958.7 |
| 20° | 1389.8 | 1373.0 | 1367.5 | 1344.2 | 1317.3 | 1283.9 | 1241.1 | 1190.0 | 1131.5 | 1068.3 | 999.6 |
| 22.5° | 1501.2 | 1489.2 | 1477.1 | 1456.6 | 1422.3 | 1374.9 | 1312.6 | 1256.9 | 1182.6 | 1112.9 | 1038.6 |
| 25° | 1659.2 | 1648.9 | 1629.4 | 1601.6 | 1558.8 | 1502.2 | 1426.9 | 1345.2 | 1257.8 | 1168.7 | 1081.3 |
| 27.5° | 1812.4 | 1803.2 | 1789.2 | 1767.9 | 1719.5 | 1657.3 | 1564.4 | 1460.4 | 1349.8 | 1242.0 | 1145.4 |
| 30° | 1956.4 | 1948.1 | 1934.1 | 1912.8 | 1870.0 | 1808.7 | 1703.8 | 1592.3 | 1454.8 | 1329.4 | 1213.2 |
| 32.5° | 2111.6 | 2108.8 | 2093.0 | 2062.3 | 2025.2 | 1942.5 | 1828.2 | 1708.4 | 1569.0 | 1424.1 | 1288.5 |
| 35° | 2287.2 | 2265.8 | 2250.9 | 2220.3 | 2157.1 | 2068.8 | 1935.1 | 1804.1 | 1657.3 | 1508.7 | 1357.2 |
| 37.5° | 2435.8 | 2415.3 | 2396.8 | 2357.8 | 2280.6 | 2168.2 | 2016.8 | 1872.8 | 1721.4 | 1570.0 | 1415.8 |
| 40° | 2544.5 | 2534.3 | 2512.0 | 2460.9 | 2374.5 | 2240.7 | 2077.2 | 1920.2 | 1767.9 | 1615.5 | 1463.1 |
| 42.5° | 2625.3 | 2609.5 | 2584.4 | 2531.5 | 2429.3 | 2276.9 | 2101.4 | 1939.7 | 1789.2 | 1643.4 | 1493.8 |
| 45° | 2655.0 | 2642.0 | 2618.8 | 2561.2 | 2450.7 | 2287.2 | 2100.4 | 1934.1 | 1790.1 | 1651.7 | 1514.2 |
| 47.5° | 2637.4 | 2624.4 | 2603.9 | 2550.1 | 2441.4 | 2275.1 | 2083.7 | 1918.3 | 1780.9 | 1654.5 | 1532.8 |
| 50° | 2578.9 | 2571.4 | 2555.6 | 2510.1 | 2412.6 | 2251.8 | 2068.8 | 1910.0 | 1779.0 | 1668.4 | 1558.8 |
| 52.5° | 2573.3 | 2568.6 | 2549.1 | 2503.6 | 2404.2 | 2244.4 | 2067.0 | 1914.6 | 1794.8 | 1686.1 | 1577.4 |
| 55° | 3144.6 | 3078.6 | 2930.9 | 2805.5 | 2599.3 | 2354.0 | 2160.8 | 1989.9 | 1861.7 | 1755.8 | 1679.6 |
| 57.5° | 4469.3 | 4370.9 | 4176.7 | 3937.9 | 3464.2 | 2998.7 | 2626.2 | 2356.8 | 2224.0 | 2175.7 | 2204.5 |
| 60° | 5089.9 | 5072.2 | 5041.6 | 4928.2 | 4685.8 | 4285.4 | 3839.5 | 3357.3 | 3164.1 | 3147.4 | 3205.9 |
| 62.5° | 5384.4 | 5373.2 | 5382.5 | 5368.6 | 5293.3 | 5176.3 | 5048.1 | 4840.0 | 4648.6 | 4525.1 | 4263.1 |
| 65° | 5520.0 | 5527.4 | 5580.4 | 5622.2 | 5631.5 | 5662.1 | 5756.0 | 6015.2 | 6204.7 | 5886.0 | 5158.6 |
| 67.5° | 5175.4 | 5219.0 | 5340.7 | 5493.1 | 5671.4 | 5844.2 | 6122.9 | 6669.2 | 7058.4 | 6684.0 | 5651.0 |
| 69° | 4284.5 | 4305.8 | 4603.1 | 4890.2 | 5325.8 | 5630.6 | 6034.7 | 6750.9 | 7188.5 | 6765.8 | 5612.0 |
| 70° | 3373.1 | 3392.6 | 3711.3 | 4101.4 | 4838.1 | 5230.2 | 5758.8 | 6612.5 | 7066.8 | 6657.1 | 5411.3 |
| 72.5° | 1521.7 | 1493.8 | 1606.2 | 1815.2 | 2616.0 | 3238.4 | 4162.8 | 5357.4 | 5830.3 | 5333.3 | 4048.5 |
| 75° | 1062.8 | 1050.7 | 1062.8 | 1063.7 | 1188.2 | 1532.8 | 1934.1 | 2904.0 | 3591.4 | 3099.1 | 1934.1 |
| 77.5° | 823.1 | 814.7 | 806.4 | 797.1 | 811.9 | 909.5 | 948.5 | 1030.2 | 1337.7 | 1265.3 | 737.6 |
| 80° | 651.2 | 643.8 | 664.2 | 657.7 | 657.7 | 668.9 | 661.4 | 630.8 | 573.2 | 531.4 | 475.6 |
| 82.5° | 302.8 | 304.7 | 304.7 | 330.7 | 398.5 | 465.4 | 486.8 | 456.1 | 405.0 | 344.7 | 277.8 |
| 85° | 28.8 | 32.5 | 54.8 | 84.5 | 168.1 | 189.5 | 190.4 | 157.9 | 157.9 | 124.5 | 100.3 |
| 87.5° | 0.0 | 0.9 | 0.9 | 0.9 | 8.4 | 23.2 | 19.5 | 5.6 | 2.8 | 2.8 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151813

CATALOG NUMBER: TLM-F04-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 |
| 2.5° | 494.2 | 491.4 | 480.3 | 469.1 | 458.9 | 447.8 | 437.5 | 427.3 | 416.2 | 407.8 | 397.6 |
| 5° | 577.8 | 557.4 | 534.2 | 511.9 | 489.6 | 466.3 | 442.2 | 420.8 | 398.5 | 378.1 | 358.6 |
| 7.5° | 662.4 | 622.4 | 590.8 | 550.9 | 514.7 | 478.4 | 445.0 | 410.6 | 379.0 | 349.3 | 321.4 |
| 10° | 733.9 | 685.6 | 636.4 | 585.3 | 533.2 | 484.9 | 438.5 | 397.6 | 355.8 | 319.6 | 285.2 |
| 12.5° | 792.4 | 731.1 | 670.7 | 606.6 | 548.1 | 486.8 | 429.2 | 380.0 | 330.7 | 289.8 | 254.5 |
| 15° | 845.4 | 774.8 | 702.3 | 628.0 | 553.7 | 484.0 | 419.9 | 358.6 | 308.4 | 262.0 | 222.0 |
| 17.5° | 888.1 | 807.3 | 725.5 | 641.9 | 562.0 | 480.3 | 407.8 | 343.7 | 285.2 | 236.9 | 197.9 |
| 20° | 925.3 | 840.7 | 752.5 | 658.6 | 567.6 | 479.4 | 397.6 | 325.1 | 264.8 | 213.7 | 175.6 |
| 22.5° | 959.6 | 875.1 | 780.3 | 680.0 | 576.0 | 478.4 | 388.3 | 311.2 | 247.1 | 196.0 | 157.9 |
| 25° | 998.7 | 909.5 | 810.1 | 702.3 | 590.8 | 482.1 | 382.7 | 300.1 | 231.3 | 179.3 | 144.0 |
| 27.5° | 1042.3 | 948.5 | 845.4 | 730.2 | 610.3 | 489.6 | 380.9 | 288.0 | 217.4 | 163.5 | 132.8 |
| 30° | 1103.6 | 994.9 | 880.7 | 758.0 | 628.0 | 497.9 | 379.0 | 280.6 | 203.4 | 151.4 | 121.7 |
| 32.5° | 1157.5 | 1040.5 | 919.7 | 786.8 | 647.5 | 506.3 | 378.1 | 270.3 | 190.4 | 139.3 | 113.3 |
| 35° | 1214.2 | 1082.3 | 953.1 | 814.7 | 664.2 | 515.6 | 377.2 | 262.9 | 178.4 | 127.3 | 105.0 |
| 37.5° | 1263.4 | 1117.6 | 979.1 | 838.9 | 682.8 | 523.9 | 378.1 | 256.4 | 167.2 | 117.1 | 97.5 |
| 40° | 1305.2 | 1153.8 | 1007.9 | 861.2 | 702.3 | 537.0 | 379.0 | 249.9 | 156.1 | 107.8 | 91.0 |
| 42.5° | 1342.4 | 1188.2 | 1038.6 | 886.2 | 724.6 | 551.8 | 384.6 | 244.3 | 146.8 | 99.4 | 84.5 |
| 45° | 1371.2 | 1219.8 | 1072.0 | 921.5 | 760.8 | 576.0 | 394.8 | 240.6 | 137.5 | 92.0 | 79.0 |
| 47.5° | 1400.9 | 1266.2 | 1128.7 | 977.3 | 813.8 | 614.1 | 412.5 | 239.7 | 130.1 | 86.4 | 74.3 |
| 50° | 1441.8 | 1312.6 | 1178.9 | 1034.0 | 862.1 | 653.1 | 433.8 | 240.6 | 120.8 | 80.8 | 69.7 |
| 52.5° | 1471.5 | 1360.0 | 1243.9 | 1132.4 | 977.3 | 772.0 | 516.5 | 257.3 | 116.1 | 76.2 | 64.1 |
| 55° | 1647.1 | 1627.6 | 1630.4 | 1648.9 | 1529.1 | 1313.6 | 864.0 | 371.6 | 136.6 | 86.4 | 63.2 |
| 57.5° | 2322.5 | 2391.2 | 2431.1 | 2430.2 | 2232.3 | 1851.5 | 1160.3 | 477.5 | 152.4 | 100.3 | 75.2 |
| 60° | 3210.6 | 3158.5 | 3085.1 | 2904.0 | 2641.1 | 2113.4 | 1297.8 | 513.7 | 131.9 | 79.9 | 68.7 |
| 62.5° | 3995.5 | 3690.8 | 3420.5 | 3126.9 | 2782.3 | 2204.5 | 1325.7 | 510.9 | 115.2 | 60.4 | 48.3 |
| 65° | 4485.1 | 3937.0 | 3500.4 | 3132.5 | 2726.6 | 2128.3 | 1254.1 | 469.1 | 97.5 | 49.2 | 39.9 |
| 67.5° | 4602.2 | 3804.2 | 3186.4 | 2717.3 | 2277.9 | 1656.4 | 920.6 | 353.0 | 76.2 | 40.9 | 35.3 |
| 69° | 4346.7 | 3381.5 | 2640.2 | 2107.9 | 1657.3 | 1099.0 | 569.5 | 223.0 | 58.5 | 37.2 | 32.5 |
| 70° | 3998.3 | 2941.2 | 2150.6 | 1691.7 | 1227.2 | 772.0 | 398.5 | 157.0 | 47.4 | 34.4 | 29.7 |
| 72.5° | 2572.3 | 1544.9 | 1057.2 | 735.8 | 506.3 | 307.5 | 156.1 | 70.6 | 36.2 | 28.8 | 24.2 |
| 75° | 997.7 | 571.3 | 414.3 | 314.9 | 246.2 | 170.9 | 94.8 | 45.5 | 30.7 | 24.2 | 18.6 |
| 77.5° | 491.4 | 376.2 | 307.5 | 210.9 | 122.6 | 76.2 | 51.1 | 35.3 | 25.1 | 17.7 | 12.1 |
| 80° | 388.3 | 258.3 | 154.2 | 95.7 | 72.5 | 54.8 | 39.0 | 28.8 | 18.6 | 11.1 | 8.4 |
| 82.5° | 198.8 | 108.7 | 79.9 | 65.0 | 53.9 | 42.7 | 31.6 | 20.4 | 12.1 | 7.4 | 6.5 |
| 85° | 62.2 | 45.5 | 40.9 | 39.9 | 37.2 | 30.7 | 22.3 | 13.0 | 7.4 | 4.6 | 4.6 |
| 87.5° | 4.6 | 6.5 | 8.4 | 6.5 | 7.4 | 6.5 | 8.4 | 5.6 | 3.7 | 3.7 | 2.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151813

CATALOG NUMBER: TLM-F04-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 | 428.3 |
| 2.5° | 390.2 | 379.0 | 368.8 | 362.3 | 350.2 | 345.6 | 340.9 | 339.1 | 330.7 | 332.6 | 325.1 |
| 5° | 340.9 | 321.4 | 306.6 | 291.7 | 277.8 | 267.5 | 259.2 | 249.0 | 240.6 | 236.9 | 229.5 |
| 7.5° | 296.3 | 271.3 | 251.8 | 236.0 | 219.2 | 206.2 | 195.1 | 187.7 | 180.2 | 172.8 | 169.1 |
| 10° | 257.3 | 230.4 | 208.1 | 192.3 | 176.5 | 165.4 | 157.0 | 151.4 | 146.8 | 144.0 | 143.1 |
| 12.5° | 221.1 | 195.1 | 174.6 | 160.7 | 148.6 | 143.1 | 139.3 | 136.6 | 135.6 | 134.7 | 134.7 |
| 15° | 193.2 | 167.2 | 151.4 | 141.2 | 135.6 | 132.8 | 131.9 | 130.1 | 128.2 | 127.3 | 127.3 |
| 17.5° | 167.2 | 147.7 | 136.6 | 131.0 | 128.2 | 126.3 | 124.5 | 122.6 | 120.8 | 119.8 | 119.8 |
| 20° | 149.6 | 133.8 | 128.2 | 124.5 | 121.7 | 119.8 | 117.1 | 115.2 | 114.3 | 113.3 | 112.4 |
| 22.5° | 135.6 | 125.4 | 121.7 | 118.9 | 115.2 | 112.4 | 110.5 | 108.7 | 106.8 | 105.9 | 105.0 |
| 25° | 125.4 | 118.9 | 116.1 | 112.4 | 108.7 | 105.9 | 103.1 | 100.3 | 98.5 | 97.5 | 95.7 |
| 27.5° | 118.0 | 113.3 | 109.6 | 105.0 | 101.3 | 98.5 | 95.7 | 92.9 | 91.0 | 89.2 | 88.3 |
| 30° | 111.5 | 106.8 | 102.2 | 98.5 | 93.8 | 91.0 | 87.3 | 84.5 | 83.6 | 81.8 | 79.9 |
| 32.5° | 105.0 | 100.3 | 95.7 | 91.0 | 86.4 | 82.7 | 80.8 | 77.1 | 75.2 | 74.3 | 72.5 |
| 35° | 97.5 | 92.9 | 87.3 | 83.6 | 79.0 | 75.2 | 72.5 | 69.7 | 67.8 | 66.0 | 65.0 |
| 37.5° | 91.0 | 85.5 | 79.9 | 75.2 | 71.5 | 67.8 | 65.0 | 62.2 | 60.4 | 58.5 | 57.6 |
| 40° | 83.6 | 78.0 | 72.5 | 67.8 | 64.1 | 61.3 | 58.5 | 55.7 | 53.9 | 53.0 | 53.0 |
| 42.5° | 77.1 | 70.6 | 65.0 | 61.3 | 58.5 | 54.8 | 52.0 | 49.2 | 48.3 | 47.4 | 48.3 |
| 45° | 70.6 | 64.1 | 59.5 | 55.7 | 53.0 | 49.2 | 46.4 | 44.6 | 43.7 | 44.6 | 45.5 |
| 47.5° | 65.0 | 58.5 | 53.9 | 51.1 | 48.3 | 45.5 | 42.7 | 40.9 | 40.9 | 42.7 | 44.6 |
| 50° | 59.5 | 53.0 | 49.2 | 47.4 | 44.6 | 41.8 | 38.1 | 37.2 | 38.1 | 39.9 | 41.8 |
| 52.5° | 53.9 | 46.4 | 43.7 | 42.7 | 39.9 | 37.2 | 34.4 | 33.4 | 34.4 | 36.2 | 35.3 |
| 55° | 48.3 | 40.9 | 39.9 | 39.0 | 36.2 | 32.5 | 29.7 | 29.7 | 29.7 | 28.8 | 26.9 |
| 57.5° | 46.4 | 36.2 | 35.3 | 34.4 | 31.6 | 27.9 | 26.0 | 24.2 | 23.2 | 20.4 | 19.5 |
| 60° | 48.3 | 32.5 | 32.5 | 30.7 | 27.9 | 24.2 | 21.4 | 18.6 | 16.7 | 14.9 | 14.9 |
| 62.5° | 39.0 | 29.7 | 28.8 | 26.9 | 23.2 | 19.5 | 16.7 | 13.9 | 13.0 | 12.1 | 12.1 |
| 65° | 31.6 | 26.9 | 25.1 | 22.3 | 19.5 | 15.8 | 13.0 | 11.1 | 10.2 | 10.2 | 11.1 |
| 67.5° | 28.8 | 24.2 | 21.4 | 18.6 | 15.8 | 12.1 | 10.2 | 9.3 | 9.3 | 10.2 | 10.2 |
| 69° | 26.9 | 22.3 | 19.5 | 16.7 | 13.9 | 11.1 | 9.3 | 9.3 | 9.3 | 9.3 | 10.2 |
| 70° | 25.1 | 21.4 | 18.6 | 15.8 | 12.1 | 9.3 | 8.4 | 8.4 | 9.3 | 9.3 | 10.2 |
| 72.5° | 19.5 | 16.7 | 15.8 | 13.0 | 9.3 | 8.4 | 7.4 | 8.4 | 8.4 | 9.3 | 9.3 |
| 75° | 14.9 | 12.1 | 12.1 | 10.2 | 7.4 | 6.5 | 6.5 | 7.4 | 7.4 | 8.4 | 8.4 |
| 77.5° | 10.2 | 8.4 | 8.4 | 7.4 | 6.5 | 5.6 | 5.6 | 6.5 | 7.4 | 7.4 | 8.4 |
| 80° | 7.4 | 6.5 | 5.6 | 6.5 | 5.6 | 4.6 | 5.6 | 6.5 | 6.5 | 7.4 | 7.4 |
| 82.5° | 5.6 | 5.6 | 5.6 | 5.6 | 4.6 | 4.6 | 5.6 | 5.6 | 6.5 | 7.4 | 7.4 |
| 85° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 5.6 | 5.6 | 6.5 | 6.5 |
| 87.5° | 2.8 | 2.8 | 2.8 | 3.7 | 3.7 | 4.6 | 4.6 | 4.6 | 4.6 | 5.6 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P151813

CATALOG NUMBER: TLM-F04-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 428.3 | 428.3 | 428.3 | 428.3 |
| 2.5° | 323.3 | 322.4 | 318.6 | 319.6 |
| 5° | 226.7 | 221.1 | 224.8 | 223.9 |
| 7.5° | 166.3 | 165.4 | 164.4 | 166.3 |
| 10° | 142.1 | 142.1 | 141.2 | 142.1 |
| 12.5° | 133.8 | 133.8 | 133.8 | 133.8 |
| 15° | 127.3 | 127.3 | 126.3 | 126.3 |
| 17.5° | 119.8 | 119.8 | 119.8 | 118.9 |
| 20° | 112.4 | 111.5 | 111.5 | 111.5 |
| 22.5° | 104.0 | 103.1 | 103.1 | 103.1 |
| 25° | 95.7 | 94.8 | 94.8 | 94.8 |
| 27.5° | 87.3 | 86.4 | 85.5 | 85.5 |
| 30° | 79.0 | 78.0 | 77.1 | 77.1 |
| 32.5° | 70.6 | 69.7 | 68.7 | 68.7 |
| 35° | 63.2 | 63.2 | 62.2 | 61.3 |
| 37.5° | 56.7 | 56.7 | 56.7 | 56.7 |
| 40° | 52.0 | 53.0 | 53.0 | 53.0 |
| 42.5° | 49.2 | 50.2 | 51.1 | 52.0 |
| 45° | 47.4 | 49.2 | 50.2 | 50.2 |
| 47.5° | 46.4 | 47.4 | 48.3 | 48.3 |
| 50° | 42.7 | 41.8 | 41.8 | 41.8 |
| 52.5° | 34.4 | 32.5 | 31.6 | 30.7 |
| 55° | 25.1 | 24.2 | 22.3 | 22.3 |
| 57.5° | 17.7 | 17.7 | 16.7 | 16.7 |
| 60° | 13.9 | 13.9 | 13.0 | 13.9 |
| 62.5° | 12.1 | 12.1 | 12.1 | 12.1 |
| 65° | 11.1 | 11.1 | 11.1 | 11.1 |
| 67.5° | 11.1 | 11.1 | 11.1 | 11.1 |
| 69° | 10.2 | 10.2 | 10.2 | 10.2 |
| 70° | 10.2 | 10.2 | 10.2 | 10.2 |
| 72.5° | 9.3 | 9.3 | 9.3 | 9.3 |
| 75° | 8.4 | 9.3 | 9.3 | 9.3 |
| 77.5° | 8.4 | 8.4 | 8.4 | 8.4 |
| 80° | 7.4 | 7.4 | 8.4 | 8.4 |
| 82.5° | 7.4 | 7.4 | 7.4 | 7.4 |
| 85° | 6.5 | 6.5 | 7.4 | 7.4 |
| 87.5° | 5.6 | 5.6 | 6.5 | 6.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)