

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1345683

Luminaire Tested: P3A13R35B2750DE010 E3A451LI\_5000K

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1345683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R35B2750DE010 E3A451LI\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 5000K CCT AND, 80CRI , E3A451LI TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

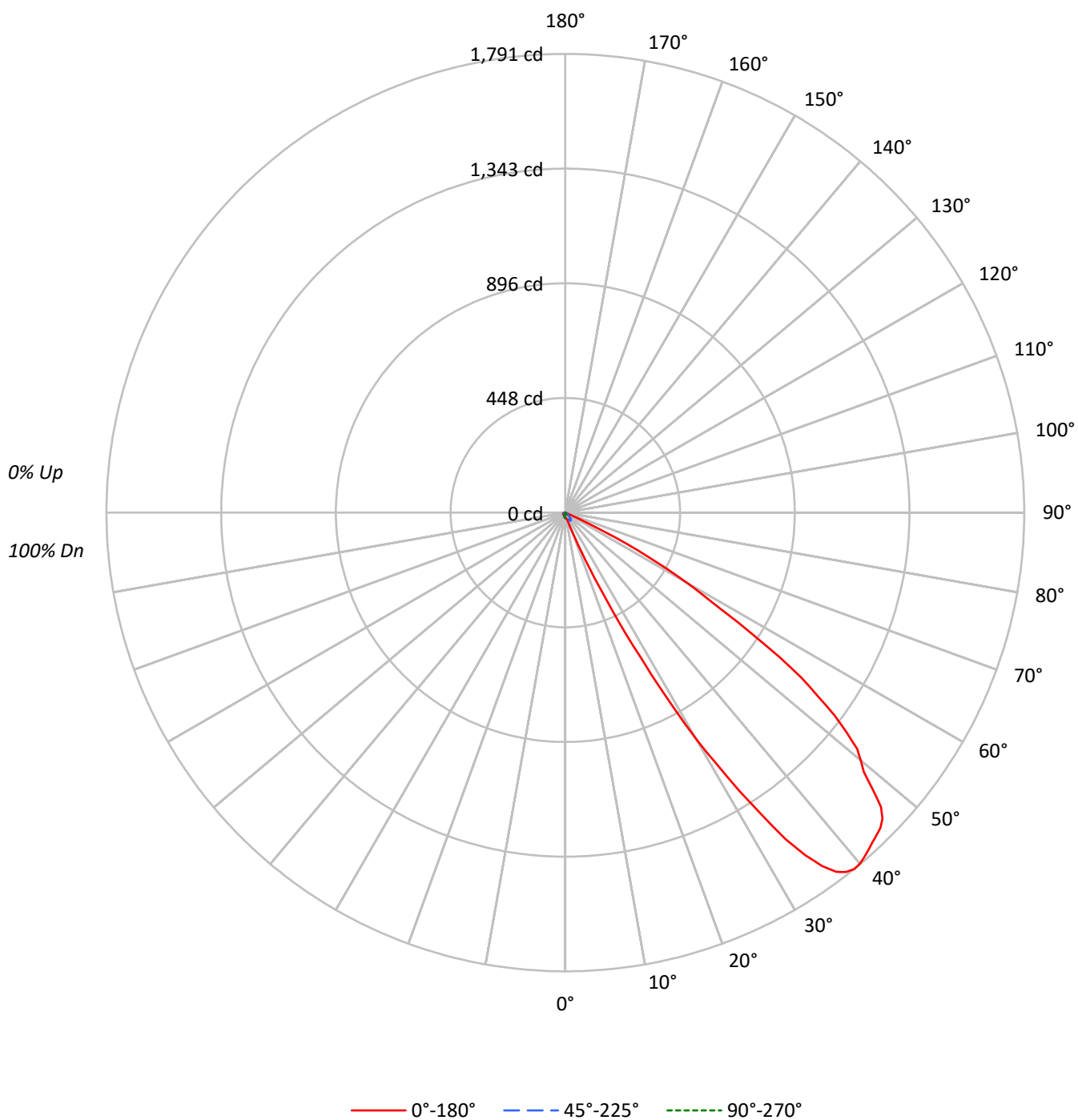
Lumens per Lamp: N/A  
Luminaire Lumens: 446.0 lumens  
Efficiency: N/A  
Efficacy: 23.3 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.1  
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: 24 FT

TEST NUMBER: P1345683

CATALOG NUMBER: P3A13R35B2750DE010 E3A451LI\_5000K

### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 89  | 89  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 75  | 75  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 52  | 52  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 44  | 44  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 37  | 37  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 26  | 26  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 22  | 22  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 19  | 19  | 17  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°  | 90°  | 135° | 180° |
|-----|--------|------|------|------|------|
| 0°  | 4495   | 4495 | 4495 | 4495 | 4495 |
| 5°  | 4865   | 4777 | 4424 | 3984 | 3896 |
| 10° | 5099   | 4654 | 3941 | 3407 | 3407 |
| 15° | 7310   | 4563 | 3201 | 2929 | 3019 |
| 20° | 18318  | 4877 | 2544 | 2544 | 2824 |
| 25° | 85045  | 6242 | 1960 | 2347 | 2637 |
| 30° | 258521 | 8457 | 1519 | 2152 | 2659 |
| 35° | 436927 | 9798 | 1285 | 2034 | 2597 |
| 40° | 512160 | 9675 | 1031 | 2061 | 2777 |
| 45° | 539374 | 6853 | 868  | 2233 | 3008 |
| 50° | 513416 | 4128 | 819  | 2320 | 3309 |
| 55° | 430207 | 1682 | 918  | 2600 | 3861 |
| 60° | 240858 | 351  | 1053 | 2982 | 4254 |
| 65° | 41561  | 208  | 1038 | 3321 | 4825 |
| 70° | 769    | 256  | 1282 | 3590 | 5450 |
| 75° | 678    | 339  | 1694 | 4067 | 6100 |
| 80° | 505    | 505  | 2020 | 4546 | 7072 |
| 85° | 0      | 1006 | 4026 | 5032 | 8051 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 543200 cd/sqm

TEST NUMBER: P1345683

CATALOG NUMBER: P3A13R35B2750DE010 E3A451LI\_5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.8    | 0.4       |
| 10°-20°   | 5.3    | 1.2       |
| 20°-30°   | 27.4   | 6.1       |
| 30°-40°   | 118.2  | 26.5      |
| 40°-50°   | 168.6  | 37.8      |
| 50°-60°   | 104.4  | 23.4      |
| 60°-70°   | 15.9   | 3.6       |
| 70°-80°   | 3.0    | 0.7       |
| 80°-90°   | 1.5    | 0.3       |
| 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°    | 34.5   | 7.7       |
| 0°-40°    | 152.7  | 34.2      |
| 0°-60°    | 425.6  | 95.4      |
| 0°-90°    | 446.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 446.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 20   | 20  | 20  | 20   | 20   |      |
| 5°  | 22   | 22  | 20  | 18   | 18   | 2    |
| 15° | 32   | 20  | 14  | 13   | 13   | 12   |
| 25° | 352  | 26  | 8   | 10   | 11   | 210  |
| 35° | 1632 | 37  | 5   | 8    | 10   | 980  |
| 45° | 1739 | 22  | 3   | 7    | 10   | 1314 |
| 55° | 1125 | 4   | 2   | 7    | 10   | 958  |
| 65° | 80   | 0   | 2   | 6    | 9    | 164  |
| 75° | 1    | 0   | 2   | 5    | 7    | 1    |
| 85° | 0    | 0   | 2   | 2    | 3    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1345683

CATALOG NUMBER: P3A13R35B2750DE010 E3A451LI\_5000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 20.5   | 20.5   | 20.5   | 20.5   | 20.5   | 20.5  | 20.5  | 20.5 | 20.5  | 20.5 | 20.5   |
| 2.5°  | 21.3   | 21.3   | 21.3   | 21.3   | 21.3   | 21.3  | 21.3  | 21.3 | 21.3  | 20.5 | 20.1   |
| 5°    | 22.1   | 22.1   | 21.7   | 21.7   | 21.7   | 21.7  | 21.7  | 21.7 | 20.9  | 20.1 | 18.9   |
| 7.5°  | 22.5   | 22.5   | 22.1   | 22.1   | 22.1   | 22.1  | 21.7  | 21.3 | 20.5  | 18.9 | 17.7   |
| 10°   | 22.9   | 22.9   | 22.9   | 22.9   | 22.5   | 22.1  | 21.7  | 20.9 | 19.7  | 17.7 | 16.5   |
| 12.5° | 25.8   | 25.8   | 25.4   | 24.6   | 23.8   | 22.9  | 22.1  | 20.5 | 18.1  | 16.1 | 14.9   |
| 15°   | 32.2   | 31.8   | 31.0   | 29.8   | 28.2   | 26.2  | 24.6  | 20.1 | 16.5  | 14.1 | 13.3   |
| 17.5° | 45.1   | 44.3   | 43.1   | 39.1   | 35.4   | 31.8  | 28.6  | 20.1 | 14.9  | 12.5 | 11.7   |
| 20°   | 78.5   | 78.9   | 70.5   | 60.8   | 52.7   | 43.9  | 35.8  | 20.9 | 13.3  | 10.9 | 10.5   |
| 22.5° | 163.9  | 157.4  | 137.3  | 113.9  | 87.0   | 67.2  | 50.7  | 22.9 | 11.7  | 9.3  | 9.3    |
| 25°   | 351.5  | 326.9  | 278.2  | 210.2  | 148.2  | 105.1 | 73.7  | 25.8 | 10.5  | 8.1  | 8.5    |
| 27.5° | 641.8  | 619.6  | 521.8  | 392.9  | 260.9  | 158.6 | 99.8  | 29.4 | 9.3   | 6.8  | 7.6    |
| 30°   | 1021.0 | 959.8  | 832.2  | 644.2  | 436.0  | 242.8 | 134.1 | 33.4 | 7.6   | 6.0  | 7.2    |
| 31°   | 1139.4 | 1111.2 | 955.8  | 745.2  | 510.9  | 288.3 | 148.6 | 34.6 | 7.2   | 6.0  | 6.8    |
| 32°   | 1279.9 | 1230.0 | 1090.7 | 855.9  | 587.0  | 328.9 | 165.9 | 35.8 | 6.8   | 5.2  | 6.8    |
| 33°   | 1405.5 | 1357.2 | 1187.7 | 953.4  | 663.9  | 375.2 | 184.4 | 36.2 | 6.0   | 5.2  | 6.4    |
| 34°   | 1537.6 | 1471.5 | 1303.7 | 1055.2 | 742.8  | 425.2 | 201.3 | 36.6 | 5.6   | 4.8  | 6.4    |
| 35°   | 1632.2 | 1566.2 | 1403.5 | 1135.8 | 810.9  | 469.4 | 220.6 | 36.6 | 5.2   | 4.8  | 6.0    |
| 36°   | 1705.5 | 1647.5 | 1489.7 | 1218.7 | 878.5  | 509.3 | 235.9 | 36.6 | 4.4   | 4.4  | 6.0    |
| 37°   | 1755.8 | 1700.6 | 1547.6 | 1290.0 | 930.0  | 544.7 | 249.6 | 36.6 | 4.0   | 4.4  | 6.0    |
| 38°   | 1780.3 | 1734.4 | 1603.6 | 1341.9 | 980.0  | 572.5 | 260.5 | 35.8 | 3.6   | 4.0  | 5.6    |
| 39°   | 1790.8 | 1753.4 | 1637.8 | 1385.8 | 1017.4 | 596.7 | 268.5 | 35.0 | 3.2   | 4.0  | 5.6    |
| 40°   | 1789.2 | 1756.6 | 1657.1 | 1416.0 | 1047.6 | 613.2 | 273.0 | 33.8 | 2.8   | 3.6  | 5.6    |
| 41°   | 1779.9 | 1751.8 | 1667.2 | 1441.7 | 1065.7 | 624.4 | 274.2 | 32.6 | 2.4   | 3.6  | 5.2    |
| 42°   | 1769.5 | 1743.7 | 1670.4 | 1455.4 | 1077.4 | 628.1 | 271.0 | 31.0 | 2.4   | 3.2  | 5.2    |
| 43°   | 1758.6 | 1734.8 | 1670.4 | 1459.9 | 1080.2 | 625.7 | 265.7 | 28.2 | 2.0   | 3.2  | 5.2    |
| 44°   | 1749.7 | 1727.2 | 1665.2 | 1458.7 | 1074.2 | 616.4 | 256.1 | 25.0 | 1.6   | 3.2  | 5.2    |
| 45°   | 1739.3 | 1717.1 | 1658.4 | 1451.0 | 1062.5 | 600.7 | 244.0 | 22.1 | 1.2   | 2.8  | 5.2    |
| 46°   | 1720.8 | 1703.4 | 1646.3 | 1435.3 | 1044.0 | 579.0 | 228.7 | 20.1 | 0.8   | 2.8  | 4.8    |
| 47°   | 1684.9 | 1670.0 | 1622.9 | 1412.0 | 1019.4 | 553.2 | 213.0 | 18.1 | 0.8   | 2.8  | 4.8    |
| 48°   | 1612.9 | 1612.5 | 1576.2 | 1368.5 | 980.4  | 521.0 | 196.5 | 16.1 | 0.8   | 2.8  | 4.8    |
| 49°   | 1543.2 | 1536.0 | 1490.9 | 1292.0 | 924.4  | 482.3 | 179.2 | 14.5 | 0.4   | 2.8  | 4.8    |
| 50°   | 1505.0 | 1489.3 | 1415.2 | 1201.8 | 852.7  | 428.8 | 160.6 | 12.1 | 0.4   | 2.4  | 4.8    |
| 51°   | 1465.1 | 1442.6 | 1355.2 | 1120.5 | 767.4  | 377.2 | 140.5 | 9.7  | 0.4   | 2.4  | 4.4    |
| 52°   | 1393.0 | 1371.7 | 1273.9 | 1042.8 | 684.4  | 324.5 | 121.2 | 8.1  | 0.4   | 2.4  | 4.8    |
| 53°   | 1315.3 | 1284.7 | 1178.4 | 957.4  | 611.6  | 277.8 | 101.5 | 6.8  | 0.4   | 2.4  | 4.4    |
| 54°   | 1217.5 | 1203.8 | 1081.8 | 852.7  | 526.2  | 232.7 | 83.3  | 5.6  | 0.4   | 2.4  | 4.4    |
| 55°   | 1125.3 | 1105.2 | 978.3  | 745.6  | 448.9  | 190.8 | 69.7  | 4.4  | 0.4   | 2.4  | 4.4    |
| 56°   | 1007.7 | 977.5  | 858.8  | 647.4  | 370.4  | 153.8 | 58.8  | 3.6  | 0.4   | 2.4  | 4.4    |
| 57°   | 867.6  | 835.4  | 741.6  | 538.3  | 290.7  | 117.2 | 49.1  | 2.8  | 0.4   | 2.4  | 4.4    |
| 58°   | 734.0  | 706.2  | 605.5  | 415.5  | 219.0  | 81.3  | 40.7  | 2.0  | 0.4   | 2.0  | 4.4    |
| 59°   | 634.1  | 603.5  | 503.7  | 319.7  | 152.2  | 60.0  | 30.6  | 1.6  | 0.4   | 2.4  | 4.4    |
| 60°   | 549.2  | 509.7  | 405.4  | 247.6  | 108.7  | 43.1  | 22.5  | 0.8  | 0.8   | 2.4  | 4.4    |
| 62.5° | 316.5  | 279.4  | 193.7  | 100.7  | 44.7   | 22.1  | 10.9  | 0.4  | 0.8   | 2.4  | 4.4    |
| 65°   | 80.1   | 71.3   | 46.3   | 21.7   | 12.5   | 7.6   | 4.0   | 0.4  | 0.8   | 2.0  | 4.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 2.8 | 2.8 | 2.8 | 2.4 | 2.0 | 1.6 | 0.8 | 0.4 | 0.8   | 2.0 | 4.0    |
| 70°   | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.8   | 2.0 | 3.6    |
| 72.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 2.0 | 3.2    |
| 75°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 2.0 | 3.2    |
| 77.5° | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.6 | 2.8    |
| 80°   | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.6 | 2.4    |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.2   | 1.6 | 2.0    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.4 | 1.2   | 1.6 | 1.6    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 1.2   | 1.6 | 1.2    |
| 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: P1345683

CATALOG NUMBER: P3A13R35B2750DE010 E3A451LI\_5000K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 20.5 | 20.5   | 20.5 |
| 2.5°  | 19.3 | 19.3   | 19.3 |
| 5°    | 18.1 | 18.1   | 17.7 |
| 7.5°  | 16.9 | 16.5   | 16.5 |
| 10°   | 15.3 | 15.3   | 15.3 |
| 12.5° | 14.1 | 14.1   | 14.1 |
| 15°   | 12.9 | 13.3   | 13.3 |
| 17.5° | 11.7 | 12.5   | 12.5 |
| 20°   | 10.9 | 11.7   | 12.1 |
| 22.5° | 10.1 | 10.9   | 11.3 |
| 25°   | 9.7  | 10.5   | 10.9 |
| 27.5° | 8.9  | 10.1   | 10.9 |
| 30°   | 8.5  | 9.7    | 10.5 |
| 31°   | 8.5  | 9.7    | 10.1 |
| 32°   | 8.1  | 9.7    | 10.1 |
| 33°   | 8.1  | 9.7    | 10.1 |
| 34°   | 8.1  | 9.3    | 10.1 |
| 35°   | 7.6  | 9.3    | 9.7  |
| 36°   | 7.6  | 9.3    | 9.7  |
| 37°   | 7.6  | 9.3    | 10.1 |
| 38°   | 7.6  | 9.3    | 9.7  |
| 39°   | 7.2  | 9.3    | 9.7  |
| 40°   | 7.2  | 9.3    | 9.7  |
| 41°   | 7.2  | 9.3    | 9.7  |
| 42°   | 7.2  | 9.3    | 9.7  |
| 43°   | 7.2  | 9.3    | 9.7  |
| 44°   | 7.2  | 8.9    | 9.7  |
| 45°   | 7.2  | 8.9    | 9.7  |
| 46°   | 7.2  | 9.3    | 9.7  |
| 47°   | 7.2  | 9.3    | 10.1 |
| 48°   | 7.2  | 8.9    | 9.7  |
| 49°   | 6.8  | 8.9    | 9.7  |
| 50°   | 6.8  | 8.9    | 9.7  |
| 51°   | 6.8  | 9.3    | 10.1 |
| 52°   | 6.8  | 9.3    | 10.1 |
| 53°   | 6.8  | 9.3    | 10.1 |
| 54°   | 6.8  | 9.3    | 9.7  |
| 55°   | 6.8  | 9.3    | 10.1 |
| 56°   | 6.8  | 9.3    | 9.7  |
| 57°   | 6.8  | 9.3    | 9.7  |
| 58°   | 6.8  | 8.9    | 9.7  |
| 59°   | 6.8  | 8.9    | 9.7  |
| 60°   | 6.8  | 8.9    | 9.7  |
| 62.5° | 6.4  | 8.9    | 9.7  |
| 65°   | 6.4  | 8.5    | 9.3  |





TEST NUMBER: P1345683

CATALOG NUMBER: P3A13R35B2750DE010 E3A451LI\_5000K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 6.0  | 8.5    | 8.9  |
| 70°   | 5.6  | 8.1    | 8.5  |
| 72.5° | 5.2  | 7.6    | 8.1  |
| 75°   | 4.8  | 6.8    | 7.2  |
| 77.5° | 4.0  | 6.0    | 6.8  |
| 80°   | 3.6  | 5.2    | 5.6  |
| 82.5° | 2.8  | 4.4    | 4.8  |
| 85°   | 2.0  | 3.2    | 3.2  |
| 87.5° | 0.8  | 1.6    | 1.6  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)