

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: io LED

Report Number: P1212644

Luminaire Tested: **LDSQA6A60930D010TE LARH20SP 6LSQA1H 30°**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14  
Report Number: P1212644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26686)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A60930D010TE LARH20SP 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 20° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

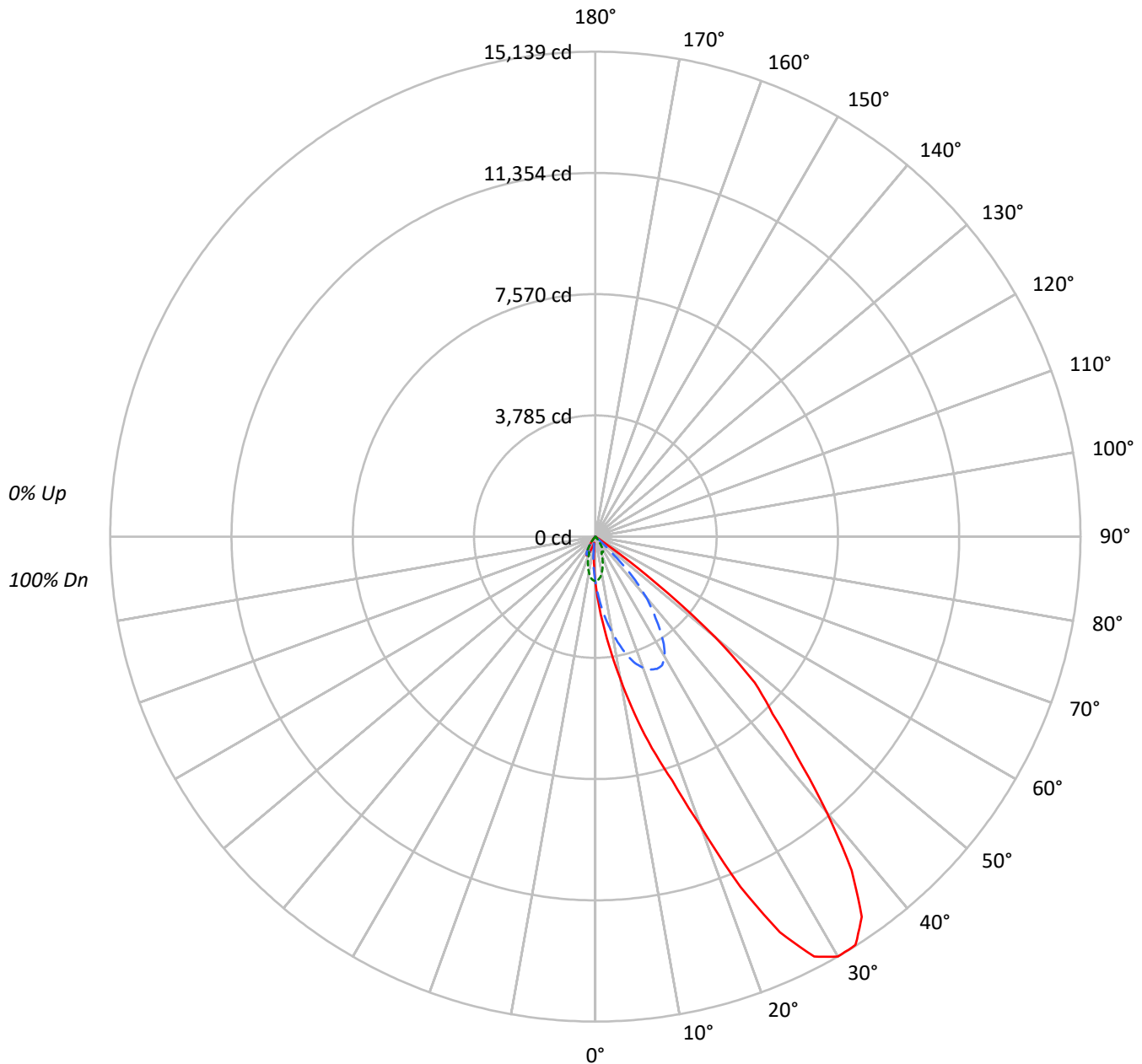
Lumens per Lamp: N/A  
Luminaire Lumens: 4942.8 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.6 / 1.31  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 71.8  
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

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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 | 100 |    |    |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 79  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 60  |    |    |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 62  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 46  | 54  | 49  | 45  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |    |    |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  | 48  | 42  | 38  | 47  | 41  | 38  | 36  |    |    |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 60080  | 60080 | 60080 |
| 5°  | 116418 | 57249 | 19311 |
| 10° | 197784 | 50103 | 8674  |
| 15° | 304778 | 39961 | 13787 |
| 20° | 441204 | 26007 | 23982 |
| 25° | 647326 | 25098 | 30832 |
| 30° | 752661 | 23774 | 23630 |
| 35° | 761823 | 12594 | 12489 |
| 40° | 630734 | 4749  | 5244  |
| 45° | 476366 | 1614  | 1912  |
| 50° | 325918 | 589   | 589   |
| 55° | 45332  | 518   | 68    |
| 60° | 1180   | 508   | 0     |
| 65° | 295    | 703   | 0     |
| 70° | 113    | 869   | 0     |
| 75° | 0      | 1148  | 0     |
| 80° | 0      | 1959  | 223   |
| 85° | 0      | 3903  | 0     |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.4  | 3.0       |
| 10°-20°   | 618.8  | 12.5      |
| 20°-30°   | 1411.6 | 28.6      |
| 30°-40°   | 1633.6 | 33.0      |
| 40°-50°   | 985.2  | 19.9      |
| 50°-60°   | 133.8  | 2.7       |
| 60°-70°   | 4.3    | 0.1       |
| 70°-80°   | 4.7    | 0.1       |
| 80°-90°   | 4.4    | 0.1       |
| 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°    | 2176.8 | 44.0      |
| 0°-40°    | 3810.4 | 77.1      |
| 0°-60°    | 4929.4 | 99.7      |
| 0°-90°    | 4942.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4942.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90°  | 135° | 180° | Flux |
|-----|-------|------|------|------|------|------|
| 0°  | 1395  | 1395 | 1395 | 1395 | 1395 |      |
| 5°  | 2694  | 2206 | 1325 | 725  | 447  | 313  |
| 15° | 6838  | 3843 | 896  | 276  | 309  | 2024 |
| 25° | 13626 | 4554 | 528  | 635  | 649  | 6166 |
| 35° | 14494 | 3472 | 240  | 244  | 238  | 8735 |
| 45° | 7823  | 946  | 26   | 32   | 31   | 6117 |
| 55° | 604   | 7    | 7    | 5    | 1    | 1184 |
| 65° | 3     | 4    | 7    | 4    | 0    | 4    |
| 75° | 0     | 5    | 7    | 5    | 0    | 0    |
| 85° | 0     | 5    | 8    | 5    | 0    | 0    |
| 90° | 0     | 0    | 0    | 0    | 0    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.4  | 1395.4  | 1395.4  | 1395.4  | 1395.4  | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 |
| 2.5°  | 2018.0  | 1999.3  | 2007.2  | 1986.6  | 1934.5  | 1923.6 | 1922.7 | 1909.0 | 1864.8 | 1830.4 | 1789.1 |
| 5°    | 2693.6  | 2692.5  | 2697.6  | 2653.3  | 2562.0  | 2533.5 | 2519.7 | 2486.4 | 2379.3 | 2296.8 | 2205.5 |
| 7.5°  | 3537.1  | 3531.1  | 3525.3  | 3444.8  | 3301.5  | 3246.4 | 3211.0 | 3090.3 | 2942.9 | 2796.7 | 2633.7 |
| 10°   | 4523.9  | 4521.0  | 4498.4  | 4357.1  | 4127.2  | 4026.1 | 3957.4 | 3765.8 | 3529.3 | 3321.0 | 3044.2 |
| 12.5° | 5669.9  | 5643.4  | 5603.1  | 5395.9  | 5080.7  | 4970.7 | 4819.6 | 4516.1 | 4152.7 | 3833.7 | 3446.8 |
| 15°   | 6837.5  | 6799.2  | 6727.5  | 6461.4  | 6070.5  | 5883.0 | 5695.4 | 5295.8 | 4802.8 | 4339.4 | 3843.4 |
| 17.5° | 7979.5  | 7937.3  | 7769.4  | 7317.7  | 6935.7  | 6706.9 | 6498.8 | 5949.8 | 5370.4 | 4774.3 | 4145.9 |
| 20°   | 9629.3  | 9476.0  | 9183.5  | 8471.5  | 7761.6  | 7349.1 | 7105.6 | 6525.3 | 5808.4 | 5114.1 | 4361.0 |
| 22.5° | 11832.9 | 11493.1 | 10869.5 | 9712.7  | 8698.4  | 8103.2 | 7704.6 | 6932.8 | 6123.6 | 5336.1 | 4493.5 |
| 25°   | 13626.0 | 13471.8 | 12762.7 | 11116.9 | 9534.0  | 8832.9 | 8278.1 | 7256.8 | 6353.4 | 5484.3 | 4554.4 |
| 27.5° | 14781.6 | 14743.3 | 13933.3 | 12279.6 | 10216.5 | 9296.4 | 8676.8 | 7470.9 | 6464.3 | 5515.8 | 4525.0 |
| 30°   | 15139.1 | 15199.0 | 14421.3 | 12674.4 | 10413.9 | 9389.7 | 8712.1 | 7473.8 | 6378.9 | 5373.3 | 4336.5 |
| 32.5° | 15112.5 | 15115.6 | 14162.0 | 12333.7 | 10092.7 | 9118.7 | 8417.5 | 7225.4 | 6063.7 | 5016.9 | 3978.0 |
| 35°   | 14494.0 | 14341.8 | 13263.5 | 11286.8 | 9345.5  | 8486.3 | 7834.2 | 6744.3 | 5544.3 | 4480.7 | 3472.3 |
| 37.5° | 13135.8 | 12936.5 | 11679.6 | 9946.5  | 8460.7  | 7666.3 | 7140.0 | 6112.8 | 4925.6 | 3908.3 | 2949.8 |
| 40°   | 11222.0 | 10939.2 | 9902.2  | 8700.3  | 7492.5  | 6895.4 | 6453.6 | 5406.7 | 4263.7 | 3346.6 | 2459.8 |
| 42.5° | 9306.1  | 9167.7  | 8482.3  | 7505.3  | 6678.4  | 6116.7 | 5655.1 | 4667.4 | 3627.4 | 2792.7 | 1840.2 |
| 45°   | 7823.4  | 7704.6  | 7244.0  | 6599.9  | 5788.7  | 5276.2 | 4831.3 | 3896.5 | 2818.3 | 1873.6 | 945.6  |
| 47.5° | 6743.2  | 6647.0  | 6206.1  | 5529.5  | 4639.8  | 4079.1 | 3620.5 | 2555.1 | 1596.7 | 809.2  | 236.7  |
| 50°   | 4865.7  | 4767.4  | 4335.4  | 3551.9  | 2748.5  | 2279.1 | 1949.2 | 1141.0 | 452.6  | 163.9  | 24.6   |
| 52.5° | 2385.2  | 2304.7  | 2011.2  | 1505.3  | 1010.5  | 726.7  | 531.3  | 214.1  | 52.0   | 17.7   | 11.7   |
| 55°   | 603.9   | 554.8   | 462.5   | 290.7   | 142.4   | 85.4   | 55.0   | 19.7   | 12.8   | 9.8    | 6.9    |
| 57.5° | 34.3    | 33.4    | 30.5    | 22.6    | 16.6    | 14.8   | 12.8   | 9.8    | 6.9    | 5.9    | 4.9    |
| 60°   | 13.7    | 12.8    | 11.7    | 9.8     | 7.9     | 6.9    | 6.9    | 4.9    | 4.0    | 4.0    | 4.0    |
| 62.5° | 5.9     | 5.9     | 5.9     | 4.9     | 4.0     | 4.0    | 4.0    | 2.9    | 4.0    | 4.0    | 4.0    |
| 65°   | 2.9     | 2.9     | 2.9     | 2.0     | 2.0     | 2.0    | 2.9    | 2.9    | 2.9    | 4.0    | 4.0    |
| 67.5° | 2.0     | 0.9     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 2.9    | 4.0    | 4.0    |
| 70°   | 0.9     | 0.9     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 2.9    | 4.0    | 4.9    |
| 72.5° | 0.0     | 0.9     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 2.9    | 4.0    | 4.9    |
| 75°   | 0.0     | 0.9     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 4.0    | 4.0    | 4.9    |
| 77.5° | 0.0     | 0.9     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 4.0    | 4.0    | 4.9    |
| 80°   | 0.0     | 0.9     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 4.0    | 4.0    | 4.9    |
| 82.5° | 0.0     | 0.0     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 4.0    | 4.0    | 4.9    |
| 85°   | 0.0     | 0.0     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 4.0    | 4.0    | 4.9    |
| 87.5° | 0.0     | 0.0     | 0.9     | 0.9     | 2.0     | 2.0    | 2.0    | 2.9    | 2.9    | 4.0    | 4.9    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 |
| 2.5°  | 1736.2 | 1700.8 | 1648.7 | 1614.4 | 1581.0 | 1549.5 | 1497.5 | 1468.1 | 1415.0 | 1365.9 | 1323.7 |
| 5°    | 2095.5 | 2007.2 | 1900.1 | 1808.8 | 1749.9 | 1692.0 | 1586.9 | 1509.3 | 1412.1 | 1324.6 | 1244.1 |
| 7.5°  | 2458.9 | 2302.7 | 2126.9 | 1976.7 | 1885.4 | 1796.0 | 1638.9 | 1513.2 | 1375.7 | 1251.1 | 1132.2 |
| 10°   | 2788.8 | 2554.1 | 2305.6 | 2090.6 | 1966.9 | 1851.0 | 1643.8 | 1476.9 | 1300.2 | 1146.0 | 996.7  |
| 12.5° | 3095.1 | 2774.1 | 2450.1 | 2169.2 | 2016.0 | 1876.5 | 1623.2 | 1419.0 | 1208.9 | 1026.2 | 852.3  |
| 15°   | 3368.1 | 2955.7 | 2555.1 | 2214.3 | 2034.6 | 1869.6 | 1575.0 | 1337.4 | 1100.7 | 896.5  | 676.6  |
| 17.5° | 3575.4 | 3068.7 | 2601.2 | 2207.4 | 2001.3 | 1817.6 | 1492.7 | 1235.4 | 985.9  | 738.4  | 490.0  |
| 20°   | 3701.0 | 3116.8 | 2591.4 | 2154.5 | 1929.6 | 1735.1 | 1394.4 | 1124.4 | 847.4  | 567.6  | 432.0  |
| 22.5° | 3754.1 | 3112.8 | 2545.2 | 2074.9 | 1841.3 | 1644.9 | 1300.2 | 1016.4 | 702.1  | 513.6  | 450.8  |
| 25°   | 3762.9 | 3072.6 | 2480.4 | 1987.5 | 1753.8 | 1558.4 | 1204.9 | 893.6  | 609.8  | 528.3  | 504.8  |
| 27.5° | 3695.2 | 2978.3 | 2358.7 | 1861.9 | 1631.1 | 1428.8 | 1062.5 | 710.0  | 572.5  | 526.3  | 542.0  |
| 30°   | 3494.8 | 2763.3 | 2143.7 | 1640.9 | 1417.9 | 1215.7 | 759.1  | 556.8  | 475.3  | 478.2  | 482.2  |
| 32.5° | 3142.3 | 2405.8 | 1798.0 | 1317.8 | 1074.2 | 801.2  | 472.3  | 372.1  | 361.4  | 361.4  | 359.4  |
| 35°   | 2671.9 | 1968.9 | 1411.1 | 833.7  | 534.2  | 384.9  | 244.5  | 245.5  | 240.6  | 239.6  | 238.7  |
| 37.5° | 2185.9 | 1553.5 | 893.6  | 344.7  | 231.8  | 161.0  | 144.4  | 146.3  | 144.4  | 147.3  | 145.3  |
| 40°   | 1723.4 | 959.4  | 326.0  | 110.0  | 81.4   | 78.5   | 80.5   | 82.5   | 82.5   | 84.5   | 84.5   |
| 42.5° | 1001.6 | 318.1  | 85.4   | 44.2   | 44.2   | 42.2   | 43.2   | 45.1   | 46.2   | 47.1   | 46.2   |
| 45°   | 297.5  | 65.7   | 27.5   | 24.6   | 24.6   | 23.6   | 23.6   | 24.6   | 25.5   | 26.5   | 26.5   |
| 47.5° | 47.1   | 18.6   | 15.7   | 13.7   | 13.7   | 13.7   | 13.7   | 13.7   | 14.8   | 14.8   | 15.7   |
| 50°   | 14.8   | 11.7   | 9.8    | 8.8    | 8.8    | 7.9    | 7.9    | 8.8    | 8.8    | 8.8    | 9.8    |
| 52.5° | 8.8    | 6.9    | 6.9    | 5.9    | 6.9    | 6.9    | 5.9    | 6.9    | 6.9    | 6.9    | 7.9    |
| 55°   | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    |
| 57.5° | 4.9    | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    |
| 60°   | 4.9    | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    |
| 62.5° | 4.9    | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    |
| 65°   | 4.9    | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 67.5° | 4.9    | 5.9    | 5.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 70°   | 4.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 72.5° | 4.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    |
| 75°   | 5.9    | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    |
| 77.5° | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 7.9    | 7.9    |
| 80°   | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 7.9    | 7.9    | 7.9    |
| 82.5° | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 7.9    | 7.9    | 7.9    |
| 85°   | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 7.9    | 7.9    | 7.9    |
| 87.5° | 5.9    | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 7.9    | 7.9    | 7.9    | 7.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 |
| 2.5°  | 1287.4 | 1242.3 | 1220.6 | 1190.1 | 1168.6 | 1120.4 | 1100.7 | 1067.4 | 1039.9 | 994.8  | 997.7  |
| 5°    | 1175.5 | 1090.1 | 1032.1 | 986.8  | 955.4  | 878.9  | 827.8  | 773.8  | 724.7  | 663.8  | 641.3  |
| 7.5°  | 1020.2 | 915.2  | 826.8  | 772.9  | 732.6  | 630.4  | 517.4  | 429.1  | 362.3  | 314.3  | 295.5  |
| 10°   | 865.1  | 728.6  | 588.2  | 504.8  | 446.8  | 348.6  | 298.6  | 275.0  | 253.3  | 226.8  | 209.2  |
| 12.5° | 684.4  | 490.0  | 362.3  | 328.9  | 305.4  | 273.0  | 240.6  | 215.0  | 219.9  | 221.0  | 227.8  |
| 15°   | 467.4  | 352.6  | 312.3  | 289.7  | 264.1  | 245.5  | 256.3  | 263.2  | 275.9  | 276.9  | 285.8  |
| 17.5° | 380.0  | 330.9  | 298.6  | 297.5  | 299.5  | 310.3  | 327.0  | 335.8  | 352.6  | 356.4  | 369.2  |
| 20°   | 380.0  | 351.5  | 379.1  | 379.1  | 384.0  | 398.6  | 420.3  | 433.1  | 451.7  | 458.6  | 474.3  |
| 22.5° | 433.1  | 452.6  | 487.1  | 491.0  | 492.9  | 508.7  | 536.2  | 549.0  | 570.5  | 574.5  | 591.1  |
| 25°   | 528.3  | 546.0  | 577.4  | 580.4  | 581.3  | 593.1  | 613.8  | 620.7  | 635.3  | 627.5  | 637.3  |
| 27.5° | 558.8  | 566.5  | 586.2  | 588.2  | 583.3  | 588.2  | 596.1  | 596.1  | 601.0  | 585.3  | 588.2  |
| 30°   | 491.0  | 492.9  | 502.8  | 503.7  | 492.9  | 494.9  | 495.9  | 494.9  | 493.9  | 477.2  | 477.2  |
| 32.5° | 364.3  | 364.3  | 377.1  | 374.1  | 362.3  | 365.2  | 365.2  | 365.2  | 364.3  | 350.6  | 348.6  |
| 35°   | 241.6  | 242.5  | 253.3  | 251.3  | 242.5  | 244.5  | 244.5  | 247.5  | 244.5  | 236.7  | 234.7  |
| 37.5° | 147.3  | 148.2  | 153.3  | 154.2  | 151.3  | 152.2  | 153.3  | 152.2  | 154.2  | 150.2  | 148.2  |
| 40°   | 85.4   | 87.4   | 91.3   | 92.3   | 91.3   | 91.3   | 92.3   | 93.3   | 97.2   | 92.3   | 90.3   |
| 42.5° | 50.0   | 51.1   | 53.1   | 53.1   | 53.1   | 53.1   | 54.0   | 55.0   | 56.0   | 55.0   | 54.0   |
| 45°   | 28.5   | 29.4   | 30.5   | 30.5   | 31.4   | 30.5   | 31.4   | 31.4   | 32.3   | 31.4   | 31.4   |
| 47.5° | 16.6   | 16.6   | 17.7   | 17.7   | 18.6   | 17.7   | 18.6   | 18.6   | 18.6   | 17.7   | 17.7   |
| 50°   | 9.8    | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 10.8   | 9.8    | 9.8    |
| 52.5° | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    |
| 55°   | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 4.9    | 4.9    | 4.0    | 4.0    |
| 57.5° | 5.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    | 2.9    |
| 60°   | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    | 2.9    |
| 62.5° | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    | 2.9    |
| 65°   | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    | 2.9    |
| 67.5° | 6.9    | 6.9    | 6.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 4.0    | 2.9    |
| 70°   | 6.9    | 7.9    | 7.9    | 6.9    | 6.9    | 6.9    | 5.9    | 4.9    | 4.9    | 4.0    | 2.9    |
| 72.5° | 6.9    | 7.9    | 7.9    | 6.9    | 6.9    | 6.9    | 5.9    | 4.9    | 4.9    | 4.0    | 2.9    |
| 75°   | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    |
| 77.5° | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    |
| 80°   | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 4.9    | 4.0    | 4.0    |
| 82.5° | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 4.9    | 4.0    | 4.0    |
| 85°   | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 4.9    | 4.0    | 2.9    |
| 87.5° | 7.9    | 7.9    | 7.9    | 7.9    | 6.9    | 6.9    | 5.9    | 5.9    | 4.9    | 4.0    | 2.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212644

CATALOG NUMBER: LDSQA6A60930D010TE LARH20SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 | 1395.4 |
| 2.5°  | 961.4  | 938.8  | 928.9  | 944.7  | 936.8  | 913.2  | 918.2  | 903.4  |
| 5°    | 573.4  | 539.1  | 517.4  | 527.3  | 495.9  | 467.4  | 467.4  | 446.8  |
| 7.5°  | 276.9  | 266.1  | 260.2  | 262.2  | 255.3  | 246.4  | 241.6  | 241.6  |
| 10°   | 194.4  | 190.5  | 191.5  | 191.5  | 197.3  | 196.4  | 199.3  | 198.4  |
| 12.5° | 230.7  | 232.7  | 233.8  | 237.6  | 242.5  | 242.5  | 245.5  | 243.5  |
| 15°   | 295.5  | 293.6  | 299.5  | 300.4  | 308.4  | 309.3  | 313.2  | 309.3  |
| 17.5° | 376.1  | 380.0  | 386.0  | 384.9  | 400.6  | 401.7  | 401.7  | 400.6  |
| 20°   | 484.2  | 487.1  | 492.9  | 494.9  | 513.6  | 515.6  | 522.5  | 523.4  |
| 22.5° | 601.9  | 601.9  | 605.0  | 608.8  | 626.5  | 627.5  | 630.4  | 630.4  |
| 25°   | 642.2  | 636.4  | 637.3  | 642.2  | 652.1  | 648.1  | 651.0  | 649.0  |
| 27.5° | 590.2  | 581.3  | 579.3  | 586.2  | 593.1  | 582.3  | 586.2  | 586.2  |
| 30°   | 479.2  | 471.4  | 469.4  | 476.3  | 481.1  | 469.4  | 473.4  | 475.3  |
| 32.5° | 350.6  | 345.7  | 344.7  | 349.5  | 353.5  | 343.7  | 347.6  | 350.6  |
| 35°   | 236.7  | 234.7  | 232.7  | 233.8  | 239.6  | 231.8  | 235.6  | 237.6  |
| 37.5° | 150.2  | 146.3  | 147.3  | 149.3  | 153.3  | 148.2  | 152.2  | 152.2  |
| 40°   | 92.3   | 90.3   | 90.3   | 92.3   | 94.2   | 90.3   | 92.3   | 93.3   |
| 42.5° | 54.0   | 54.0   | 54.0   | 55.0   | 56.0   | 54.0   | 54.0   | 55.0   |
| 45°   | 31.4   | 30.5   | 30.5   | 31.4   | 32.3   | 30.5   | 31.4   | 31.4   |
| 47.5° | 17.7   | 16.6   | 16.6   | 17.7   | 17.7   | 16.6   | 17.7   | 17.7   |
| 50°   | 9.8    | 8.8    | 8.8    | 9.8    | 9.8    | 8.8    | 8.8    | 8.8    |
| 52.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.0    | 4.0    |
| 55°   | 2.9    | 2.9    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 0.9    |
| 57.5° | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    |
| 60°   | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 62.5° | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 65°   | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 67.5° | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 70°   | 2.9    | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    |
| 72.5° | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.0    | 0.0    |
| 75°   | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.0    | 0.0    |
| 77.5° | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    |
| 80°   | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 82.5° | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.9    |
| 85°   | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    |
| 87.5° | 2.9    | 2.0    | 2.0    | 2.0    | 0.9    | 0.9    | 0.9    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Peachtree City, GA 30269

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1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180°    - - 45°-225°    - - - 90°-270°

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