

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: P1212560

Luminaire Tested: **LDSQA6A40940D010TE 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: P1212560  
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: LDSQA6A40940D010TE 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 / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

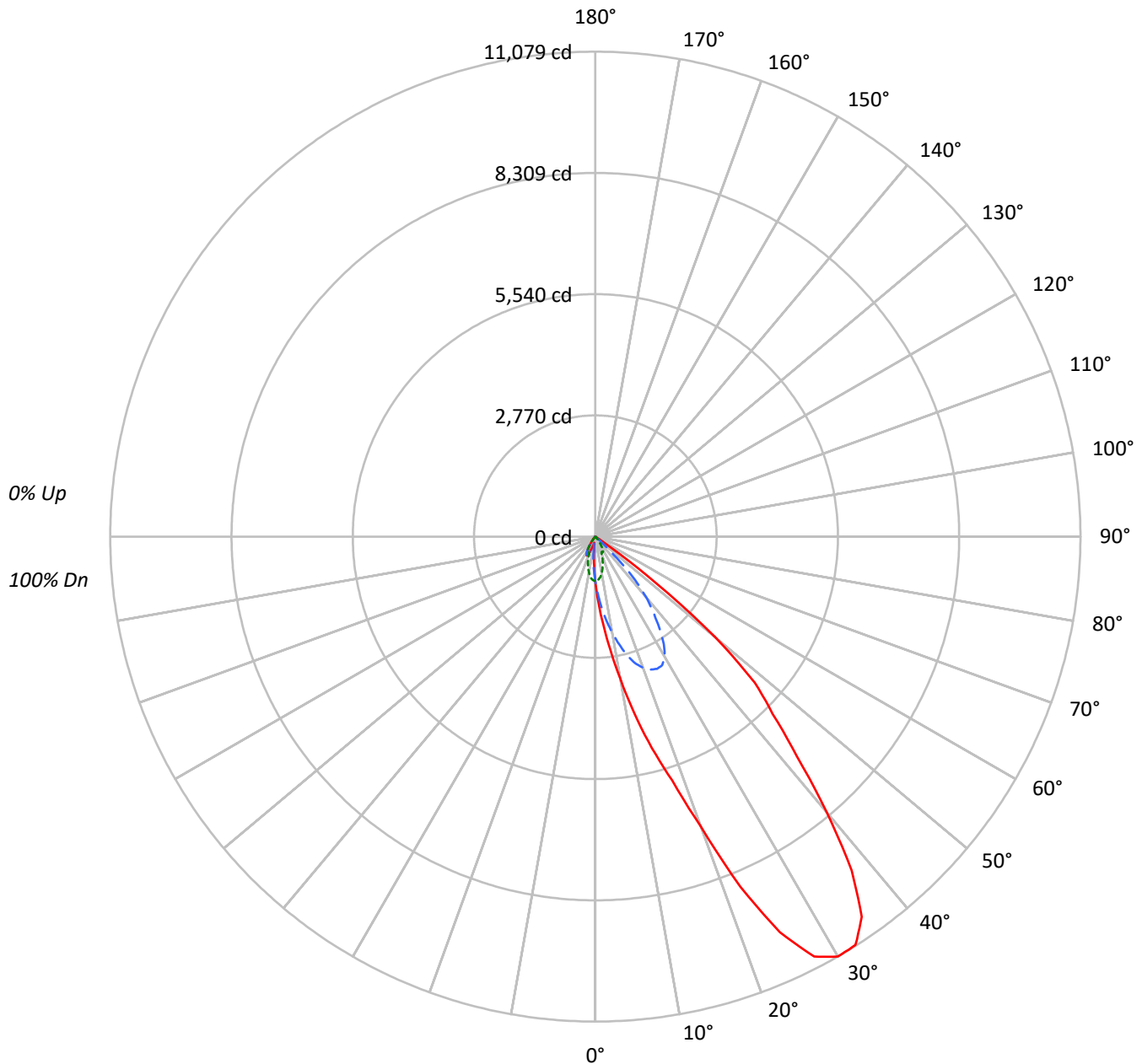
Lumens per Lamp: N/A  
Luminaire Lumens: 3617.1 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.6 / 1.31  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.8  
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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CATALOG NUMBER: LDSQA6A40940D010TE LARH20SP 6LSQA1H 30°

### 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  | 46  | 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°  | 43968  | 43968 | 43968 |
| 5°  | 85191  | 41898 | 14133 |
| 10° | 144743 | 36663 | 6348  |
| 15° | 223037 | 29245 | 10087 |
| 20° | 322876 | 19033 | 17549 |
| 25° | 473713 | 18366 | 22566 |
| 30° | 550803 | 17401 | 17296 |
| 35° | 557507 | 9214  | 9140  |
| 40° | 461579 | 3473  | 3839  |
| 45° | 348607 | 1181  | 1400  |
| 50° | 238512 | 435   | 435   |
| 55° | 33171  | 375   | 53    |
| 60° | 861    | 370   | 0     |
| 65° | 214    | 509   | 0     |
| 70° | 88     | 629   | 0     |
| 75° | 0      | 832   | 0     |
| 80° | 0      | 1438  | 174   |
| 85° | 0      | 2865  | 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°    | 107.1  | 3.0       |
| 10°-20°   | 452.8  | 12.5      |
| 20°-30°   | 1033.0 | 28.6      |
| 30°-40°   | 1195.5 | 33.1      |
| 40°-50°   | 721.0  | 19.9      |
| 50°-60°   | 97.9   | 2.7       |
| 60°-70°   | 3.1    | 0.1       |
| 70°-80°   | 3.4    | 0.1       |
| 80°-90°   | 3.2    | 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°    | 1593.0 | 44.0      |
| 0°-40°    | 2788.5 | 77.1      |
| 0°-60°    | 3607.4 | 99.7      |
| 0°-90°    | 3617.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3617.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90°  | 135° | 180° | Flux |
|-----|-------|------|------|------|------|------|
| 0°  | 1021  | 1021 | 1021 | 1021 | 1021 |      |
| 5°  | 1971  | 1614 | 969  | 530  | 327  | 229  |
| 15° | 5004  | 2813 | 656  | 202  | 226  | 1481 |
| 25° | 9972  | 3333 | 387  | 465  | 475  | 4513 |
| 35° | 10607 | 2541 | 175  | 179  | 174  | 6392 |
| 45° | 5725  | 692  | 19   | 24   | 23   | 4477 |
| 55° | 442   | 5    | 5    | 4    | 1    | 866  |
| 65° | 2     | 3    | 5    | 3    | 0    | 3    |
| 75° | 0     | 4    | 5    | 4    | 0    | 0    |
| 85° | 0     | 4    | 6    | 4    | 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°    | 1021.2  | 1021.2  | 1021.2  | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 |
| 2.5°  | 1476.7  | 1463.1  | 1468.8  | 1453.7 | 1415.7 | 1407.8 | 1407.1 | 1397.0 | 1364.7 | 1339.5 | 1309.3 |
| 5°    | 1971.1  | 1970.4  | 1974.0  | 1941.7 | 1874.9 | 1854.0 | 1844.0 | 1819.6 | 1741.2 | 1680.8 | 1614.0 |
| 7.5°  | 2588.5  | 2584.1  | 2579.8  | 2520.9 | 2416.0 | 2375.8 | 2349.9 | 2261.5 | 2153.7 | 2046.6 | 1927.4 |
| 10°   | 3310.7  | 3308.5  | 3291.9  | 3188.5 | 3020.3 | 2946.3 | 2896.0 | 2755.9 | 2582.7 | 2430.4 | 2227.7 |
| 12.5° | 4149.3  | 4129.8  | 4100.4  | 3948.8 | 3718.1 | 3637.7 | 3527.0 | 3304.9 | 3039.0 | 2805.5 | 2522.3 |
| 15°   | 5003.7  | 4975.7  | 4923.2  | 4728.5 | 4442.4 | 4305.2 | 4168.0 | 3875.5 | 3514.8 | 3175.5 | 2812.7 |
| 17.5° | 5839.5  | 5808.6  | 5685.7  | 5355.1 | 5075.6 | 4908.1 | 4755.8 | 4354.1 | 3930.1 | 3493.9 | 3034.0 |
| 20°   | 7046.8  | 6934.6  | 6720.5  | 6199.5 | 5679.9 | 5378.1 | 5199.9 | 4775.2 | 4250.6 | 3742.6 | 3191.4 |
| 22.5° | 8659.3  | 8410.7  | 7954.3  | 7107.8 | 6365.5 | 5930.0 | 5638.3 | 5073.4 | 4481.3 | 3905.0 | 3288.4 |
| 25°   | 9971.5  | 9858.7  | 9339.9  | 8135.5 | 6977.0 | 6463.9 | 6057.9 | 5310.6 | 4649.5 | 4013.4 | 3332.9 |
| 27.5° | 10817.3 | 10789.3 | 10196.4 | 8986.3 | 7476.5 | 6803.2 | 6349.7 | 5467.2 | 4730.6 | 4036.4 | 3311.4 |
| 30°   | 11078.9 | 11122.7 | 10553.6 | 9275.1 | 7620.9 | 6871.4 | 6375.5 | 5469.4 | 4668.1 | 3932.3 | 3173.4 |
| 32.5° | 11059.4 | 11061.7 | 10363.8 | 9025.8 | 7385.9 | 6673.0 | 6160.0 | 5287.6 | 4437.4 | 3671.4 | 2911.1 |
| 35°   | 10606.8 | 10495.4 | 9706.4  | 8259.8 | 6839.1 | 6210.2 | 5733.1 | 4935.5 | 4057.3 | 3279.0 | 2541.1 |
| 37.5° | 9612.9  | 9467.0  | 8547.2  | 7278.8 | 6191.6 | 5610.2 | 5225.0 | 4473.4 | 3604.5 | 2860.1 | 2158.7 |
| 40°   | 8212.4  | 8005.3  | 7246.5  | 6366.9 | 5483.0 | 5046.1 | 4722.8 | 3956.7 | 3120.2 | 2449.0 | 1800.1 |
| 42.5° | 6810.3  | 6709.0  | 6207.4  | 5492.4 | 4887.3 | 4476.3 | 4138.5 | 3415.6 | 2654.6 | 2043.8 | 1346.7 |
| 45°   | 5725.2  | 5638.3  | 5301.2  | 4829.8 | 4236.2 | 3861.1 | 3535.6 | 2851.4 | 2062.4 | 1371.1 | 692.0  |
| 47.5° | 4934.7  | 4864.3  | 4541.6  | 4046.5 | 3395.5 | 2985.1 | 2649.5 | 1869.8 | 1168.5 | 592.2  | 173.2  |
| 50°   | 3560.8  | 3488.9  | 3172.7  | 2599.2 | 2011.4 | 1667.9 | 1426.5 | 835.0  | 331.2  | 120.0  | 18.0   |
| 52.5° | 1745.6  | 1686.6  | 1471.7  | 1101.6 | 739.5  | 531.8  | 388.8  | 156.7  | 38.1   | 12.9   | 8.6    |
| 55°   | 441.9   | 406.0   | 338.5   | 212.7  | 104.2  | 62.5   | 40.3   | 14.4   | 9.4    | 7.1    | 5.0    |
| 57.5° | 25.1    | 24.4    | 22.3    | 16.5   | 12.2   | 10.8   | 9.4    | 7.1    | 5.0    | 4.3    | 3.6    |
| 60°   | 10.0    | 9.4     | 8.6     | 7.1    | 5.8    | 5.0    | 5.0    | 3.6    | 2.9    | 2.9    | 2.9    |
| 62.5° | 4.3     | 4.3     | 4.3     | 3.6    | 2.9    | 2.9    | 2.9    | 2.1    | 2.9    | 2.9    | 2.9    |
| 65°   | 2.1     | 2.1     | 2.1     | 1.4    | 1.4    | 1.4    | 2.1    | 2.1    | 2.1    | 2.9    | 2.9    |
| 67.5° | 1.4     | 0.7     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.1    | 2.9    | 2.9    |
| 70°   | 0.7     | 0.7     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.1    | 2.9    | 3.6    |
| 72.5° | 0.0     | 0.7     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.1    | 2.9    | 3.6    |
| 75°   | 0.0     | 0.7     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.9    | 2.9    | 3.6    |
| 77.5° | 0.0     | 0.7     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.9    | 2.9    | 3.6    |
| 80°   | 0.0     | 0.7     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.9    | 2.9    | 3.6    |
| 82.5° | 0.0     | 0.0     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.9    | 2.9    | 3.6    |
| 85°   | 0.0     | 0.0     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.9    | 2.9    | 3.6    |
| 87.5° | 0.0     | 0.0     | 0.7     | 0.7    | 1.4    | 1.4    | 1.4    | 2.1    | 2.1    | 2.9    | 3.6    |
| 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°    | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 |
| 2.5°  | 1270.5 | 1244.6 | 1206.5 | 1181.4 | 1157.0 | 1134.0 | 1095.9 | 1074.3 | 1035.6 | 999.6  | 968.7  |
| 5°    | 1533.5 | 1468.8 | 1390.6 | 1323.7 | 1280.5 | 1238.2 | 1161.3 | 1104.5 | 1033.3 | 969.4  | 910.5  |
| 7.5°  | 1799.4 | 1685.2 | 1556.5 | 1446.6 | 1379.7 | 1314.3 | 1199.4 | 1107.4 | 1006.8 | 915.5  | 828.5  |
| 10°   | 2040.9 | 1869.1 | 1687.3 | 1530.0 | 1439.3 | 1354.6 | 1203.0 | 1080.8 | 951.4  | 838.6  | 729.4  |
| 12.5° | 2265.1 | 2030.0 | 1792.9 | 1587.4 | 1475.3 | 1373.3 | 1187.9 | 1038.4 | 884.6  | 751.0  | 623.7  |
| 15°   | 2464.8 | 2163.1 | 1869.8 | 1620.5 | 1489.0 | 1368.2 | 1152.6 | 978.8  | 805.5  | 656.1  | 495.2  |
| 17.5° | 2616.5 | 2245.7 | 1903.6 | 1615.4 | 1464.6 | 1330.2 | 1092.3 | 904.0  | 721.5  | 540.4  | 358.6  |
| 20°   | 2708.5 | 2280.9 | 1896.5 | 1576.6 | 1412.1 | 1269.8 | 1020.4 | 822.8  | 620.2  | 415.4  | 316.2  |
| 22.5° | 2747.3 | 2278.0 | 1862.6 | 1518.5 | 1347.4 | 1203.6 | 951.4  | 743.7  | 513.8  | 375.9  | 329.9  |
| 25°   | 2753.8 | 2248.6 | 1815.2 | 1454.5 | 1283.4 | 1140.5 | 881.8  | 654.0  | 446.3  | 386.6  | 369.4  |
| 27.5° | 2704.1 | 2179.6 | 1726.1 | 1362.4 | 1193.6 | 1045.6 | 777.5  | 519.5  | 419.0  | 385.1  | 396.6  |
| 30°   | 2557.6 | 2022.2 | 1568.7 | 1200.8 | 1037.7 | 889.7  | 555.4  | 407.5  | 347.9  | 350.0  | 352.9  |
| 32.5° | 2299.6 | 1760.6 | 1315.8 | 964.4  | 786.1  | 586.4  | 345.6  | 272.3  | 264.5  | 264.5  | 263.0  |
| 35°   | 1955.4 | 1440.8 | 1032.7 | 610.1  | 390.9  | 281.7  | 178.9  | 179.7  | 176.1  | 175.3  | 174.7  |
| 37.5° | 1599.6 | 1136.9 | 654.0  | 252.2  | 169.6  | 117.9  | 105.7  | 107.0  | 105.7  | 107.8  | 106.4  |
| 40°   | 1261.2 | 702.1  | 238.6  | 80.5   | 59.6   | 57.5   | 58.9   | 60.4   | 60.4   | 61.8   | 61.8   |
| 42.5° | 733.0  | 232.8  | 62.5   | 32.4   | 32.4   | 30.9   | 31.6   | 33.0   | 33.8   | 34.5   | 33.8   |
| 45°   | 217.7  | 48.1   | 20.1   | 18.0   | 18.0   | 17.3   | 17.3   | 18.0   | 18.6   | 19.4   | 19.4   |
| 47.5° | 34.5   | 13.6   | 11.5   | 10.0   | 10.0   | 10.0   | 10.0   | 10.0   | 10.8   | 10.8   | 11.5   |
| 50°   | 10.8   | 8.6    | 7.1    | 6.5    | 6.5    | 5.8    | 5.8    | 6.5    | 6.5    | 6.5    | 7.1    |
| 52.5° | 6.5    | 5.0    | 5.0    | 4.3    | 5.0    | 5.0    | 4.3    | 5.0    | 5.0    | 5.0    | 5.8    |
| 55°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    |
| 57.5° | 3.6    | 3.6    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 60°   | 3.6    | 3.6    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.0    |
| 62.5° | 3.6    | 3.6    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    |
| 65°   | 3.6    | 3.6    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    |
| 67.5° | 3.6    | 4.3    | 4.3    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 70°   | 3.6    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 72.5° | 3.6    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 75°   | 4.3    | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    |
| 77.5° | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    | 5.8    | 5.8    |
| 80°   | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    | 5.8    | 5.8    | 5.8    |
| 82.5° | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    | 5.8    | 5.8    | 5.8    |
| 85°   | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    | 5.8    | 5.8    | 5.8    |
| 87.5° | 4.3    | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.8    | 5.8    | 5.8    | 5.8    |
| 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°    | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 |
| 2.5°  | 942.1  | 909.0  | 893.3  | 870.9  | 855.1  | 819.9  | 805.5  | 781.1  | 761.0  | 728.0  | 730.1  |
| 5°    | 860.2  | 797.6  | 755.2  | 722.2  | 699.2  | 643.2  | 605.8  | 566.3  | 530.3  | 485.8  | 469.3  |
| 7.5°  | 746.6  | 669.7  | 605.1  | 565.6  | 536.1  | 461.4  | 378.7  | 314.0  | 265.2  | 230.0  | 216.3  |
| 10°   | 633.1  | 533.2  | 430.4  | 369.4  | 327.0  | 255.1  | 218.4  | 201.2  | 185.4  | 166.0  | 153.1  |
| 12.5° | 500.9  | 358.6  | 265.2  | 240.7  | 223.5  | 199.8  | 176.1  | 157.4  | 160.9  | 161.7  | 166.7  |
| 15°   | 342.1  | 258.0  | 228.6  | 212.0  | 193.3  | 179.7  | 187.6  | 192.6  | 201.9  | 202.7  | 209.1  |
| 17.5° | 278.1  | 242.2  | 218.4  | 217.7  | 219.2  | 227.1  | 239.3  | 245.8  | 258.0  | 260.8  | 270.2  |
| 20°   | 278.1  | 257.2  | 277.3  | 277.3  | 281.0  | 291.7  | 307.6  | 316.9  | 330.6  | 335.6  | 347.1  |
| 22.5° | 316.9  | 331.2  | 356.5  | 359.4  | 360.7  | 372.2  | 392.4  | 401.7  | 417.5  | 420.4  | 432.6  |
| 25°   | 386.6  | 399.5  | 422.5  | 424.7  | 425.4  | 434.0  | 449.1  | 454.1  | 464.9  | 459.2  | 466.4  |
| 27.5° | 408.9  | 414.6  | 429.0  | 430.4  | 426.9  | 430.4  | 436.2  | 436.2  | 439.8  | 428.3  | 430.4  |
| 30°   | 359.4  | 360.7  | 367.9  | 368.6  | 360.7  | 362.2  | 362.9  | 362.2  | 361.5  | 349.2  | 349.2  |
| 32.5° | 266.6  | 266.6  | 276.0  | 273.8  | 265.2  | 267.3  | 267.3  | 267.3  | 266.6  | 256.6  | 255.1  |
| 35°   | 176.8  | 177.5  | 185.4  | 183.9  | 177.5  | 178.9  | 178.9  | 181.1  | 178.9  | 173.2  | 171.8  |
| 37.5° | 107.8  | 108.5  | 112.1  | 112.8  | 110.7  | 111.4  | 112.1  | 111.4  | 112.8  | 109.9  | 108.5  |
| 40°   | 62.5   | 63.9   | 66.8   | 67.5   | 66.8   | 66.8   | 67.5   | 68.3   | 71.1   | 67.5   | 66.1   |
| 42.5° | 36.6   | 37.4   | 38.8   | 38.8   | 38.8   | 38.8   | 39.5   | 40.3   | 41.0   | 40.3   | 39.5   |
| 45°   | 20.9   | 21.5   | 22.3   | 22.3   | 23.0   | 22.3   | 23.0   | 23.0   | 23.7   | 23.0   | 23.0   |
| 47.5° | 12.2   | 12.2   | 12.9   | 12.9   | 13.6   | 12.9   | 13.6   | 13.6   | 13.6   | 12.9   | 12.9   |
| 50°   | 7.1    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.1    | 7.1    |
| 52.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    |
| 55°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 3.6    | 3.6    | 2.9    | 2.9    |
| 57.5° | 4.3    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    | 2.1    |
| 60°   | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    | 2.1    |
| 62.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    | 2.1    |
| 65°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    | 2.1    |
| 67.5° | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.9    | 2.1    |
| 70°   | 5.0    | 5.8    | 5.8    | 5.0    | 5.0    | 5.0    | 4.3    | 3.6    | 3.6    | 2.9    | 2.1    |
| 72.5° | 5.0    | 5.8    | 5.8    | 5.0    | 5.0    | 5.0    | 4.3    | 3.6    | 3.6    | 2.9    | 2.1    |
| 75°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    |
| 77.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    |
| 80°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 4.3    | 3.6    | 2.9    | 2.9    |
| 82.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 4.3    | 3.6    | 2.9    | 2.9    |
| 85°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 4.3    | 3.6    | 2.9    | 2.1    |
| 87.5° | 5.8    | 5.8    | 5.8    | 5.8    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 2.1    |
| 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: P1212560

CATALOG NUMBER: LDSQA6A40940D010TE LARH20SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 | 1021.2 |
| 2.5°  | 703.5  | 687.0  | 679.8  | 691.3  | 685.6  | 668.3  | 671.9  | 661.1  |
| 5°    | 419.6  | 394.5  | 378.7  | 385.9  | 362.9  | 342.1  | 342.1  | 327.0  |
| 7.5°  | 202.7  | 194.7  | 190.4  | 191.8  | 186.8  | 180.4  | 176.8  | 176.8  |
| 10°   | 142.3  | 139.4  | 140.2  | 140.2  | 144.4  | 143.7  | 145.9  | 145.2  |
| 12.5° | 168.9  | 170.3  | 171.0  | 173.9  | 177.5  | 177.5  | 179.7  | 178.2  |
| 15°   | 216.3  | 214.8  | 219.2  | 219.9  | 225.7  | 226.3  | 229.2  | 226.3  |
| 17.5° | 275.2  | 278.1  | 282.5  | 281.7  | 293.2  | 294.0  | 294.0  | 293.2  |
| 20°   | 354.2  | 356.5  | 360.7  | 362.2  | 375.9  | 377.3  | 382.3  | 383.0  |
| 22.5° | 440.5  | 440.5  | 442.6  | 445.5  | 458.5  | 459.2  | 461.4  | 461.4  |
| 25°   | 470.0  | 465.7  | 466.4  | 470.0  | 477.2  | 474.3  | 476.4  | 475.0  |
| 27.5° | 431.9  | 425.4  | 424.0  | 429.0  | 434.0  | 426.1  | 429.0  | 429.0  |
| 30°   | 350.7  | 345.0  | 343.5  | 348.5  | 352.1  | 343.5  | 346.4  | 347.9  |
| 32.5° | 256.6  | 253.0  | 252.2  | 255.8  | 258.7  | 251.5  | 254.3  | 256.6  |
| 35°   | 173.2  | 171.8  | 170.3  | 171.0  | 175.3  | 169.6  | 172.4  | 173.9  |
| 37.5° | 109.9  | 107.0  | 107.8  | 109.3  | 112.1  | 108.5  | 111.4  | 111.4  |
| 40°   | 67.5   | 66.1   | 66.1   | 67.5   | 69.0   | 66.1   | 67.5   | 68.3   |
| 42.5° | 39.5   | 39.5   | 39.5   | 40.3   | 41.0   | 39.5   | 39.5   | 40.3   |
| 45°   | 23.0   | 22.3   | 22.3   | 23.0   | 23.7   | 22.3   | 23.0   | 23.0   |
| 47.5° | 12.9   | 12.2   | 12.2   | 12.9   | 12.9   | 12.2   | 12.9   | 12.9   |
| 50°   | 7.1    | 6.5    | 6.5    | 7.1    | 7.1    | 6.5    | 6.5    | 6.5    |
| 52.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.9    | 2.9    |
| 55°   | 2.1    | 2.1    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 0.7    |
| 57.5° | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    |
| 60°   | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 62.5° | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 65°   | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    |
| 70°   | 2.1    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    |
| 72.5° | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.0    | 0.0    |
| 75°   | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.0    | 0.0    |
| 77.5° | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    |
| 80°   | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    |
| 82.5° | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    |
| 85°   | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.0    |
| 87.5° | 2.1    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 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



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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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