

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: P1191844

Luminaire Tested: **LDA4A30940D010TE LAR25NF 4LLWW1**

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: P1191844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26102)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A30940D010TE LAR25NF 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 25° Narrow Flood Optic,
at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

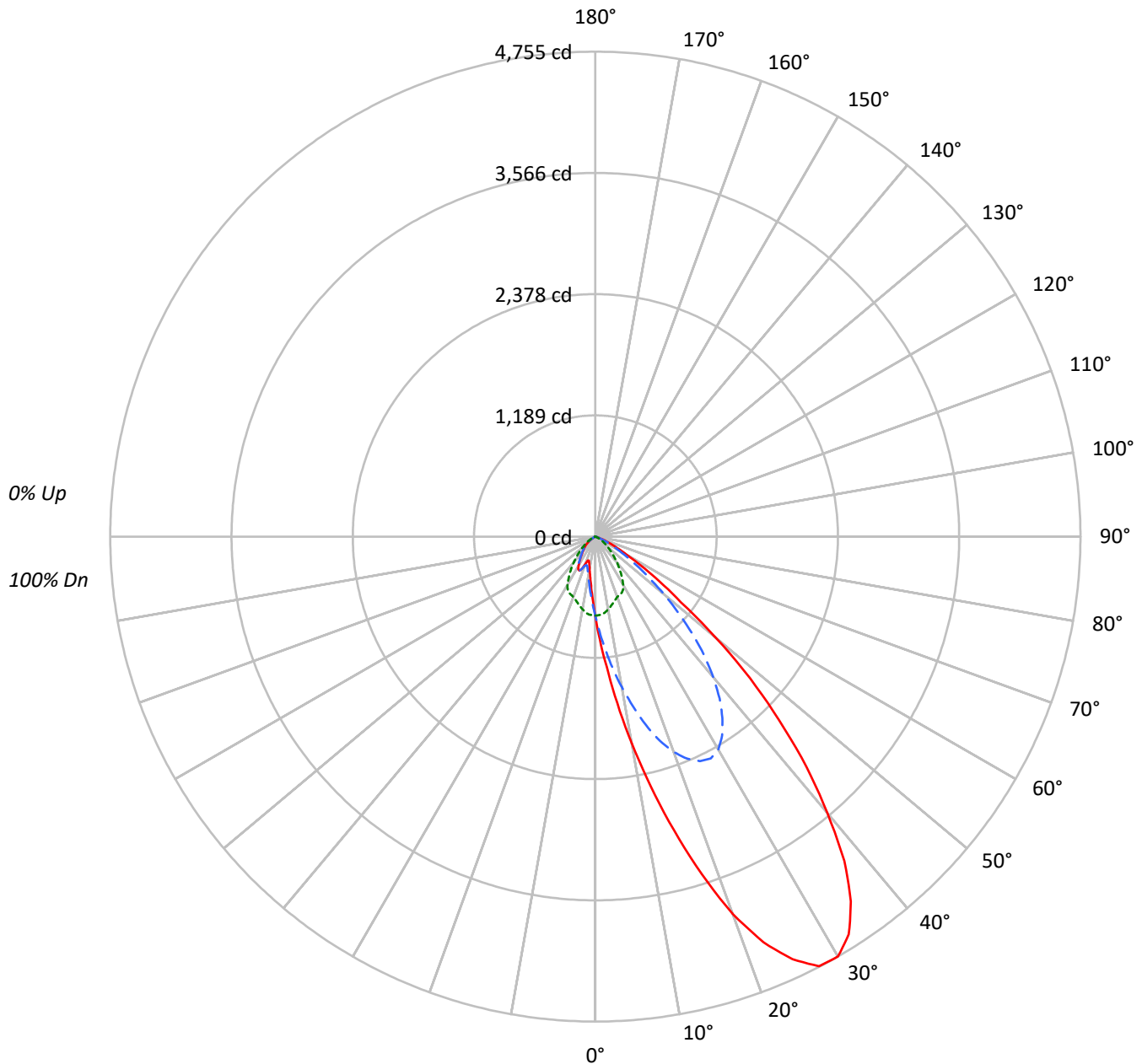
Lumens per Lamp: N/A
Luminaire Lumens: 2793.9 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50		
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95556	95556	95556
5°	158956	94794	59655
10°	257360	90642	40305
15°	380562	85914	31350
20°	516961	82590	37003
25°	622371	82897	50233
30°	677227	77694	46873
35°	657390	65441	37524
40°	569466	52685	30738
45°	444064	40609	26323
50°	294496	30338	20245
55°	164231	22300	12107
60°	86589	14801	4934
65°	46698	7442	525
70°	22324	2633	649
75°	7816	1763	858
80°	2628	2628	0
85°	7642	5236	0

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.0
10°-20°	326.1	11.7
20°-30°	670.7	24.0
30°-40°	801.1	28.7
40°-50°	591.6	21.2
50°-60°	249.0	8.9
60°-70°	61.2	2.2
70°-80°	8.4	0.3
80°-90°	3.3	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°	1079.4	38.6
0°-40°	1880.5	67.3
0°-60°	2721.0	97.4
0°-90°	2793.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2793.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	775	775	775	775	775	
5°	1284	1106	766	549	482	147
15°	2980	1913	673	306	246	874
25°	4573	2429	609	367	369	2091
35°	4366	2171	435	260	249	2678
45°	2546	1338	233	153	151	1954
55°	764	496	104	65	56	729
65°	160	109	26	5	2	174
75°	16	9	4	2	2	23
85°	5	5	4	2	0	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7
2.5°	1007.3	994.7	994.7	998.2	1009.2	1000.1	992.8	985.6	992.8	976.5	981.9
5°	1283.8	1281.9	1281.9	1267.3	1280.1	1281.9	1267.3	1254.6	1258.3	1234.6	1234.6
7.5°	1647.4	1636.5	1632.8	1612.9	1627.4	1625.5	1601.9	1580.2	1580.2	1541.9	1532.8
10°	2054.8	2040.1	2032.9	2007.4	2020.2	2012.9	1978.4	1945.5	1936.6	1882.0	1861.9
12.5°	2503.9	2494.8	2483.8	2451.1	2462.1	2447.4	2398.4	2351.1	2331.1	2258.4	2223.9
15°	2980.2	2994.8	2976.6	2938.4	2945.6	2920.2	2856.6	2791.2	2760.2	2662.0	2611.1
17.5°	3471.1	3489.3	3469.4	3425.7	3423.9	3389.3	3302.0	3222.1	3176.6	3051.1	2983.9
20°	3938.4	3944.0	3918.5	3871.2	3860.3	3813.0	3707.6	3594.8	3551.2	3396.6	3311.1
22.5°	4305.8	4325.8	4294.8	4260.3	4225.7	4165.8	4042.1	3918.5	3856.7	3680.3	3576.6
25°	4573.0	4618.5	4582.1	4542.1	4504.0	4433.1	4294.8	4162.1	4085.8	3889.4	3771.2
27.5°	4749.5	4793.2	4753.1	4707.7	4667.6	4585.8	4434.9	4307.6	4214.9	4000.3	3873.0
30°	4754.9	4807.7	4765.8	4716.8	4678.5	4596.7	4442.2	4311.2	4207.6	3993.0	3860.3
32.5°	4623.9	4665.9	4623.9	4582.1	4538.6	4460.4	4305.8	4180.3	4071.3	3865.8	3733.1
35°	4365.8	4402.2	4360.4	4311.2	4280.3	4211.2	4064.0	3944.0	3834.9	3645.7	3529.4
37.5°	4009.4	4042.1	4004.0	3976.7	3931.2	3869.4	3734.8	3627.5	3523.9	3352.9	3249.4
40°	3536.7	3605.8	3569.4	3551.2	3509.4	3456.6	3338.4	3243.8	3149.3	3000.2	2914.7
42.5°	3063.9	3129.4	3096.6	3083.8	3047.4	3002.1	2903.8	2823.9	2736.6	2613.0	2540.1
45°	2545.7	2614.8	2583.8	2578.4	2547.4	2513.0	2407.5	2365.6	2289.3	2172.9	2138.4
47.5°	2058.3	2071.1	2042.0	2043.8	2021.9	1998.3	1912.8	1887.4	1849.3	1760.1	1720.1
50°	1534.7	1543.8	1520.2	1527.4	1512.9	1498.3	1440.1	1427.4	1403.7	1343.7	1320.1
52.5°	1056.4	1098.2	1081.9	1089.2	1081.9	1076.4	1052.8	1030.9	1020.1	981.9	970.9
55°	763.7	767.3	754.6	761.9	756.5	754.6	740.1	727.3	721.9	698.3	694.6
57.5°	529.2	532.7	532.7	529.2	527.3	523.6	514.5	507.3	503.7	498.2	487.4
60°	351.0	365.5	360.1	363.7	361.8	361.8	354.5	349.1	347.3	336.3	336.3
62.5°	240.1	249.2	245.5	247.3	245.5	245.5	240.1	236.4	236.4	234.5	229.1
65°	160.0	165.4	161.8	163.7	163.7	163.7	160.0	156.4	156.4	154.6	150.9
67.5°	101.8	105.5	103.7	105.5	103.7	105.5	101.8	100.0	98.1	98.1	96.4
70°	61.9	63.6	61.9	63.6	61.9	61.9	60.0	60.0	58.2	56.3	56.3
72.5°	32.7	34.6	34.6	34.6	34.6	34.6	32.7	30.9	30.9	30.9	29.2
75°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	14.5	14.5	14.5
77.5°	7.3	7.3	7.3	7.3	9.1	7.3	7.3	7.3	7.3	7.3	7.3
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	5.4	5.4	5.4	5.4	5.4	5.4	7.3	7.3	7.3	7.3	5.4
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.1	9.1	7.3	7.3
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7
2.5°	967.4	958.3	954.6	947.3	938.2	932.8	927.4	929.1	916.4	907.3	894.6
5°	1211.0	1190.9	1180.1	1163.8	1143.7	1127.4	1112.8	1105.6	1081.9	1065.5	1030.9
7.5°	1498.3	1463.7	1441.9	1412.8	1378.2	1349.2	1320.1	1300.1	1263.7	1232.9	1180.1
10°	1812.8	1760.1	1722.0	1678.3	1625.5	1578.3	1534.7	1498.3	1443.8	1396.4	1327.3
12.5°	2156.6	2081.9	2027.5	1963.7	1889.2	1823.8	1745.6	1703.8	1629.2	1563.8	1474.7
15°	2521.9	2423.8	2347.4	2260.1	2162.0	2074.7	1974.7	1912.8	1814.7	1731.1	1620.1
17.5°	2872.9	2749.3	2649.2	2538.4	2416.6	2303.8	2185.6	2098.3	1978.4	1874.7	1741.9
20°	3178.4	3031.1	2909.3	2774.8	2631.2	2492.9	2363.8	2247.5	2107.4	1985.6	1834.7
22.5°	3427.6	3256.6	3116.6	2960.3	2794.7	2638.4	2491.1	2358.4	2198.4	2063.9	1898.3
25°	3607.5	3420.2	3263.9	3091.1	2909.3	2731.1	2574.7	2429.2	2254.7	2111.1	1934.7
27.5°	3702.1	3504.0	3338.4	3153.0	2960.3	2774.8	2605.7	2451.1	2267.5	2116.5	1934.7
30°	3685.7	3483.9	3313.0	3122.1	2927.5	2742.1	2565.6	2411.2	2222.0	2069.3	1887.4
32.5°	3560.3	3362.0	3194.8	3009.3	2818.5	2638.4	2462.1	2312.9	2123.7	1974.7	1798.3
35°	3352.9	3165.8	3007.5	2831.1	2651.1	2482.0	2322.0	2171.1	1989.2	1847.4	1682.0
37.5°	3083.8	2912.9	2769.3	2605.7	2440.2	2287.4	2129.3	2000.1	1838.3	1705.6	1543.8
40°	2762.0	2611.1	2483.8	2338.3	2189.3	2056.5	1923.8	1798.3	1640.2	1521.9	1383.8
42.5°	2407.5	2278.3	2169.2	2042.0	1912.8	1800.2	1685.6	1576.5	1445.5	1338.3	1209.1
45°	2025.6	1916.5	1827.4	1725.5	1618.3	1512.9	1429.1	1338.3	1216.4	1136.5	1027.4
47.5°	1631.1	1547.3	1480.1	1402.0	1316.5	1250.9	1171.0	1098.2	1009.2	934.7	845.5
50°	1256.5	1198.3	1151.0	1096.5	1034.6	974.6	927.4	870.9	803.7	743.7	672.8
52.5°	929.1	891.0	861.8	825.6	783.8	752.8	709.1	667.3	616.4	571.0	516.4
55°	665.4	643.7	625.5	603.7	574.6	547.3	525.5	496.3	460.1	425.5	385.5
57.5°	478.3	454.5	452.8	429.1	418.3	398.2	378.2	356.4	330.9	307.3	278.2
60°	330.9	314.6	307.3	298.2	285.4	272.8	263.7	249.2	231.0	214.6	192.7
62.5°	223.7	212.8	209.1	205.5	194.6	189.1	178.2	169.1	156.4	143.6	129.1
65°	147.3	139.9	136.4	131.0	125.4	121.9	116.3	109.1	98.1	90.9	81.8
67.5°	92.7	87.3	83.6	81.8	76.4	74.5	69.1	65.4	58.2	54.6	49.1
70°	52.8	50.9	47.2	47.2	43.7	40.0	38.1	34.6	32.7	29.2	27.3
72.5°	27.3	27.3	25.5	23.6	21.8	21.8	20.0	18.2	16.4	14.5	14.5
75°	12.7	12.7	12.7	10.9	10.9	10.9	9.1	9.1	9.1	7.3	7.3
77.5°	7.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	5.4	3.7	3.7	3.7	3.7	5.4	5.4	5.4	5.4	5.4	5.4
87.5°	5.4	5.4	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7
2.5°	885.6	881.9	872.8	870.9	851.0	847.3	836.4	820.0	807.4	803.7	807.4
5°	1018.3	1001.9	974.6	969.2	936.5	925.5	901.9	876.5	854.6	841.9	836.4
7.5°	1154.7	1127.4	1087.4	1067.3	1020.1	996.4	962.0	925.5	891.0	867.4	852.7
10°	1285.5	1241.8	1169.2	1152.8	1094.6	1056.4	1009.2	960.1	916.4	883.7	860.1
12.5°	1409.2	1356.5	1281.9	1236.4	1160.1	1111.0	1051.0	991.0	936.5	892.8	860.1
15°	1536.5	1467.4	1374.7	1311.0	1223.8	1158.2	1085.5	1016.4	952.9	898.2	858.3
17.5°	1641.9	1556.4	1447.3	1371.0	1269.2	1190.9	1107.3	1027.4	958.3	896.4	851.0
20°	1720.1	1620.1	1496.4	1407.4	1294.6	1207.4	1116.4	1029.2	952.9	885.6	836.4
22.5°	1772.9	1658.3	1523.7	1425.6	1307.4	1212.8	1114.7	1023.7	945.5	876.5	823.7
25°	1798.3	1674.6	1534.7	1429.1	1305.6	1207.4	1105.6	1012.9	932.8	861.8	810.9
27.5°	1794.6	1663.8	1520.2	1409.2	1283.8	1182.0	1078.3	985.6	907.3	836.4	783.8
30°	1741.9	1612.9	1467.4	1354.6	1231.0	1129.2	1025.5	934.7	858.3	785.5	736.4
32.5°	1660.1	1527.4	1385.6	1260.1	1154.7	1054.7	956.4	863.7	791.0	720.0	672.8
35°	1549.2	1421.9	1285.5	1178.3	1063.8	967.4	872.8	785.5	716.4	647.4	603.7
37.5°	1420.0	1298.3	1172.9	1061.9	962.0	872.8	783.8	705.5	636.4	574.6	532.7
40°	1271.0	1158.2	1043.7	949.2	851.0	769.1	687.3	611.0	554.6	498.2	461.9
42.5°	1109.2	1009.2	905.5	823.7	734.6	661.9	583.7	529.2	474.6	423.7	394.5
45°	940.1	852.7	765.6	690.9	618.2	554.6	487.4	436.5	394.5	352.7	327.2
47.5°	772.8	698.3	627.3	567.3	503.7	451.0	403.6	358.2	318.1	283.7	263.7
50°	603.7	554.6	498.2	449.1	398.2	354.5	310.9	278.2	247.3	221.9	209.1
52.5°	470.9	425.5	380.0	340.0	303.6	267.2	238.2	210.9	189.1	172.8	163.7
55°	351.0	314.6	280.0	249.2	220.0	196.4	176.4	160.0	145.5	132.7	129.1
57.5°	250.9	223.7	200.0	176.4	158.1	143.6	131.0	120.0	110.9	101.8	100.0
60°	174.5	154.6	139.9	125.4	114.5	103.7	96.4	89.0	81.8	76.4	74.5
62.5°	116.3	105.5	94.6	87.3	81.8	72.7	69.1	63.6	60.0	54.6	52.8
65°	74.5	67.3	61.9	56.3	52.8	49.1	45.5	41.8	38.1	34.6	34.6
67.5°	45.5	40.0	38.1	34.6	30.9	29.2	27.3	23.6	21.8	21.8	20.0
70°	25.5	21.8	20.0	18.2	16.4	16.4	14.5	12.7	12.7	10.9	10.9
72.5°	12.7	12.7	10.9	10.9	9.1	9.1	7.3	7.3	7.3	5.4	5.4
75°	7.3	7.3	5.4	5.4	5.4	5.4	5.4	5.4	3.7	3.7	3.7
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	5.4	5.4	5.4	5.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7
87.5°	5.4	5.4	5.4	5.4	5.4	3.7	3.7	3.7	3.7	3.7	3.7
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: P1191844

CATALOG NUMBER: LDA4A30940D010TE LAR25NF 4LLWW1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	774.7	774.7	774.7	774.7	774.7	774.7	774.7	774.7
2.5°	792.7	774.7	771.0	771.0	694.6	649.1	614.5	605.6
5°	810.9	785.5	772.8	765.6	629.2	549.1	496.3	481.8
7.5°	820.0	783.8	763.7	747.4	565.5	461.9	405.5	389.1
10°	816.5	772.8	745.5	723.7	507.3	394.5	336.3	321.8
12.5°	809.2	760.0	725.5	698.3	458.2	341.9	289.1	274.6
15°	801.8	745.5	705.5	672.8	418.3	305.5	258.3	245.5
17.5°	787.3	729.1	683.6	649.1	392.8	291.0	250.9	243.6
20°	771.0	710.9	663.7	629.2	385.5	305.5	281.9	281.9
22.5°	760.0	698.3	652.8	618.2	398.2	340.0	330.9	336.3
25°	745.5	687.3	641.8	609.1	411.0	367.3	361.8	369.1
27.5°	721.9	663.7	620.1	587.4	403.6	363.7	358.2	361.8
30°	674.5	618.2	580.1	545.5	374.6	336.3	327.2	329.1
32.5°	614.5	560.1	523.6	490.9	332.8	296.4	287.3	287.3
35°	549.1	498.2	463.6	434.6	292.7	260.0	250.9	249.2
37.5°	483.7	436.5	407.3	380.0	256.4	227.3	218.2	216.3
40°	418.3	376.4	349.1	327.2	225.4	201.8	192.7	190.9
42.5°	356.4	320.0	296.4	278.2	196.4	178.2	170.9	169.1
45°	294.5	265.5	247.3	232.8	170.9	152.7	150.9	150.9
47.5°	238.2	214.6	201.8	192.7	145.5	131.0	129.1	131.0
50°	190.9	174.5	165.4	158.1	123.6	110.9	105.5	105.5
52.5°	150.9	139.9	134.5	129.1	101.8	89.0	81.8	80.1
55°	120.0	110.9	107.2	103.7	80.1	65.4	58.2	56.3
57.5°	94.6	87.3	83.6	80.1	60.0	45.5	38.1	36.4
60°	71.0	65.4	61.9	60.0	41.8	27.3	21.8	20.0
62.5°	50.9	47.2	43.7	41.8	25.5	14.5	9.1	7.3
65°	30.9	30.9	27.3	25.5	12.7	5.4	3.7	1.8
67.5°	18.2	16.4	14.5	14.5	5.4	3.7	1.8	1.8
70°	9.1	9.1	7.3	7.3	3.7	1.8	1.8	1.8
72.5°	5.4	5.4	5.4	3.7	3.7	1.8	1.8	1.8
75°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8
77.5°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	0.0
80°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	0.0
82.5°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8
85°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	1.8	1.8	1.8
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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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)