

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: P1212809

Luminaire Tested: **LDA4A30950D010TE 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: P1212809
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: LDA4A30950D010TE LAR25NF 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 25° Narrow Flood Optic,
at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

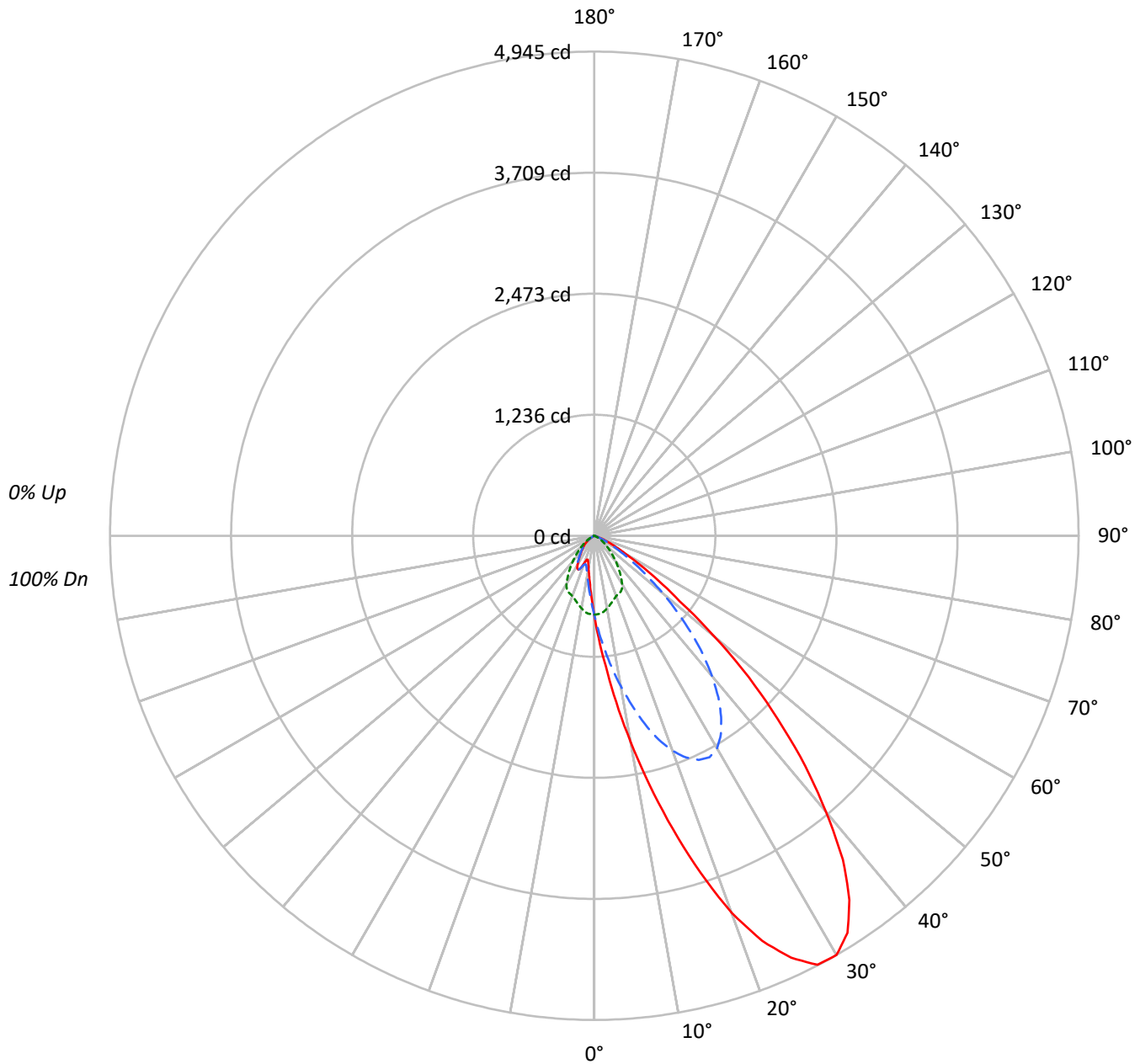
Lumens per Lamp: N/A
Luminaire Lumens: 2905.7 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	88	102	96	91	87		93	89	85		90	86	84		87	84	82
3	97	89	82	77	95	87	81	76		84	79	75		82	77	74		79	76	73
4	90	80	73	67	88	79	72	67		77	71	66		74	69	65		72	68	65
5	83	73	65	60	82	72	65	59		70	63	59		68	62	58		66	61	58
6	78	66	58	53	76	65	58	53		64	57	52		62	56	52		61	55	52
7	72	60	53	47	71	60	52	47		58	52	47		57	51	47		56	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	46	39	35		45	39	35		45	39	34		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99380	99380	99380
5°	165320	98583	62045
10°	267656	94262	41921
15°	395783	89349	32601
20°	537635	85898	38486
25°	647263	86217	52248
30°	704317	80799	48753
35°	683681	68061	39030
40°	592250	54794	31962
45°	461822	42231	27369
50°	306278	31547	21051
55°	170790	23182	12602
60°	90042	15394	5131
65°	48566	7734	555
70°	23225	2741	685
75°	8149	1811	905
80°	2699	2699	0
85°	7925	5378	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.0
10°-20°	339.2	11.7
20°-30°	697.5	24.0
30°-40°	833.1	28.7
40°-50°	615.2	21.2
50°-60°	258.9	8.9
60°-70°	63.6	2.2
70°-80°	8.7	0.3
80°-90°	3.5	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°	1122.6	38.6
0°-40°	1955.7	67.3
0°-60°	2829.9	97.4
0°-90°	2905.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	806	806	806	806	806	
5°	1335	1150	796	571	501	153
15°	3099	1989	700	318	255	909
25°	4756	2526	634	382	384	2175
35°	4540	2258	452	270	259	2785
45°	2648	1392	242	159	157	2033
55°	794	516	108	68	59	758
65°	166	114	26	6	2	181
75°	17	10	4	2	2	24
85°	6	6	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°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	1047.6	1034.5	1034.5	1038.1	1049.6	1040.1	1032.5	1025.0	1032.5	1015.6	1021.2
5°	1335.2	1333.2	1333.2	1318.0	1331.3	1333.2	1318.0	1304.8	1308.6	1284.0	1284.0
7.5°	1713.3	1702.0	1698.1	1677.4	1692.5	1690.5	1666.0	1643.4	1643.4	1603.6	1594.1
10°	2137.0	2121.7	2114.2	2087.7	2101.0	2093.4	2057.5	2023.3	2014.1	1957.3	1936.4
12.5°	2604.1	2594.6	2583.2	2549.1	2560.6	2545.3	2494.3	2445.1	2424.3	2348.7	2312.9
15°	3099.4	3114.6	3095.7	3055.9	3063.4	3037.0	2970.9	2902.8	2870.6	2768.5	2715.5
17.5°	3609.9	3628.9	3608.2	3562.7	3560.9	3524.9	3434.1	3351.0	3303.7	3173.1	3103.3
20°	4095.9	4101.8	4075.2	4026.0	4014.7	3965.5	3855.9	3738.6	3693.2	3532.5	3443.5
22.5°	4478.0	4498.8	4466.6	4430.7	4394.7	4332.4	4203.8	4075.2	4011.0	3827.5	3719.7
25°	4755.9	4803.2	4765.4	4723.8	4684.2	4610.4	4466.6	4328.6	4249.2	4045.0	3922.0
27.5°	4939.5	4984.9	4943.2	4896.0	4854.3	4769.2	4612.3	4479.9	4383.5	4160.3	4027.9
30°	4945.1	5000.0	4956.4	4905.5	4865.6	4780.6	4619.9	4483.6	4375.9	4152.7	4014.7
32.5°	4808.9	4852.5	4808.9	4765.4	4720.1	4638.8	4478.0	4347.5	4234.2	4020.4	3882.4
35°	4540.4	4578.3	4534.8	4483.6	4451.5	4379.6	4226.6	4101.8	3988.3	3791.5	3670.6
37.5°	4169.8	4203.8	4164.2	4135.8	4088.4	4024.2	3884.2	3772.6	3664.9	3487.0	3379.4
40°	3678.2	3750.0	3712.2	3693.2	3649.8	3594.9	3471.9	3373.6	3275.3	3120.2	3031.3
42.5°	3186.5	3254.6	3220.5	3207.2	3169.3	3122.2	3020.0	2936.9	2846.1	2717.5	2641.7
45°	2647.5	2719.4	2687.2	2681.5	2649.3	2613.5	2503.8	2460.2	2380.9	2259.8	2223.9
47.5°	2140.6	2153.9	2123.7	2125.6	2102.8	2078.2	1989.3	1962.9	1923.3	1830.5	1788.9
50°	1596.1	1605.6	1581.0	1588.5	1573.4	1558.2	1497.7	1484.5	1459.8	1397.4	1372.9
52.5°	1098.7	1142.1	1125.2	1132.8	1125.2	1119.5	1094.9	1072.1	1060.9	1021.2	1009.7
55°	794.2	798.0	784.8	792.4	786.8	784.8	769.7	756.4	750.8	726.2	722.4
57.5°	550.4	554.0	554.0	550.4	548.4	544.5	535.1	527.6	523.8	518.1	506.9
60°	365.0	380.1	374.5	378.2	376.3	376.3	368.7	363.1	361.2	349.8	349.8
62.5°	249.7	259.2	255.3	257.2	255.3	255.3	249.7	245.9	245.9	243.9	238.3
65°	166.4	172.0	168.3	170.2	170.2	170.2	166.4	162.7	162.7	160.8	156.9
67.5°	105.9	109.7	107.8	109.7	107.8	109.7	105.9	104.0	102.0	102.0	100.3
70°	64.4	66.1	64.4	66.1	64.4	64.4	62.4	62.4	60.5	58.6	58.6
72.5°	34.0	36.0	36.0	36.0	36.0	36.0	34.0	32.1	32.1	32.1	30.4
75°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	15.1	15.1	15.1
77.5°	7.6	7.6	7.6	7.6	9.5	7.6	7.6	7.6	7.6	7.6	7.6
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	5.6	5.6	5.6	5.6	5.6	5.6	7.6	7.6	7.6	7.6	5.6
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.5	9.5	7.6	7.6
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	1006.1	996.6	992.8	985.2	975.7	970.1	964.5	966.3	953.1	943.6	930.4
5°	1259.4	1238.5	1227.3	1210.4	1189.4	1172.5	1157.3	1149.8	1125.2	1108.1	1072.1
7.5°	1558.2	1522.2	1499.6	1469.3	1433.3	1403.2	1372.9	1352.1	1314.2	1282.2	1227.3
10°	1885.3	1830.5	1790.9	1745.4	1690.5	1641.4	1596.1	1558.2	1501.6	1452.3	1380.4
12.5°	2242.9	2165.2	2108.6	2042.2	1964.8	1896.8	1815.4	1772.0	1694.4	1626.4	1533.7
15°	2622.8	2520.8	2441.3	2350.5	2248.5	2157.7	2053.7	1989.3	1887.3	1800.3	1684.9
17.5°	2987.8	2859.3	2755.2	2639.9	2513.3	2396.0	2273.0	2182.2	2057.5	1949.7	1811.6
20°	3305.5	3152.3	3025.7	2885.8	2736.4	2592.6	2458.4	2337.4	2191.7	2065.0	1908.1
22.5°	3564.7	3386.9	3241.3	3078.7	2906.5	2743.9	2590.7	2452.7	2286.3	2146.5	1974.2
25°	3751.8	3557.0	3394.5	3214.7	3025.7	2840.3	2677.7	2526.4	2344.9	2195.5	2012.1
27.5°	3850.2	3644.2	3471.9	3279.1	3078.7	2885.8	2709.9	2549.1	2358.2	2201.2	2012.1
30°	3833.1	3623.3	3445.5	3247.0	3044.6	2851.8	2668.2	2507.6	2310.9	2152.1	1962.9
32.5°	3702.7	3496.5	3322.6	3129.7	2931.2	2743.9	2560.6	2405.4	2208.6	2053.7	1870.2
35°	3487.0	3292.4	3127.8	2944.3	2757.1	2581.3	2414.9	2257.9	2068.8	1921.3	1749.3
37.5°	3207.2	3029.4	2880.1	2709.9	2537.8	2378.9	2214.5	2080.1	1911.8	1773.8	1605.6
40°	2872.5	2715.5	2583.2	2431.8	2276.9	2138.8	2000.8	1870.2	1705.8	1582.8	1439.2
42.5°	2503.8	2369.4	2256.0	2123.7	1989.3	1872.2	1753.0	1639.6	1503.3	1391.8	1257.5
45°	2106.6	1993.2	1900.5	1794.5	1683.0	1573.4	1486.3	1391.8	1265.1	1182.0	1068.5
47.5°	1696.3	1609.2	1539.3	1458.1	1369.2	1300.9	1217.8	1142.1	1049.6	972.1	879.3
50°	1306.8	1246.2	1197.0	1140.4	1076.0	1013.6	964.5	905.7	835.8	773.4	699.7
52.5°	966.3	926.6	896.3	858.6	815.2	782.9	737.5	694.0	641.1	593.8	537.1
55°	692.0	669.4	650.5	627.8	597.6	569.2	546.5	516.2	478.5	442.5	400.9
57.5°	497.4	472.7	470.9	446.3	435.0	414.1	393.3	370.7	344.1	319.6	289.3
60°	344.1	327.2	319.6	310.1	296.8	283.7	274.2	259.2	240.2	223.2	200.4
62.5°	232.6	221.3	217.5	213.7	202.4	196.7	185.3	175.9	162.7	149.3	134.3
65°	153.2	145.5	141.9	136.2	130.4	126.8	121.0	113.5	102.0	94.5	85.1
67.5°	96.4	90.8	86.9	85.1	79.5	77.5	71.9	68.0	60.5	56.8	51.1
70°	54.9	52.9	49.1	49.1	45.4	41.6	39.6	36.0	34.0	30.4	28.4
72.5°	28.4	28.4	26.5	24.5	22.7	22.7	20.8	18.9	17.1	15.1	15.1
75°	13.2	13.2	13.2	11.3	11.3	11.3	9.5	9.5	9.5	7.6	7.6
77.5°	7.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	5.6	3.8	3.8	3.8	3.8	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	5.6	5.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	921.0	917.2	907.7	905.7	885.0	881.2	869.9	852.8	839.7	835.8	839.7
5°	1059.0	1042.0	1013.6	1008.0	974.0	962.5	938.0	911.6	888.8	875.6	869.9
7.5°	1200.9	1172.5	1130.9	1110.0	1060.9	1036.3	1000.5	962.5	926.6	902.1	886.8
10°	1336.9	1291.5	1216.0	1198.9	1138.4	1098.7	1049.6	998.5	953.1	919.0	894.5
12.5°	1465.6	1410.8	1333.2	1285.9	1206.5	1155.4	1093.0	1030.6	974.0	928.5	894.5
15°	1598.0	1526.1	1429.7	1363.4	1272.8	1204.5	1128.9	1057.1	991.0	934.1	892.6
17.5°	1707.6	1618.7	1505.2	1425.8	1320.0	1238.5	1151.6	1068.5	996.6	932.3	885.0
20°	1788.9	1684.9	1556.3	1463.7	1346.4	1255.7	1161.1	1070.4	991.0	921.0	869.9
22.5°	1843.8	1724.6	1584.6	1482.6	1359.7	1261.3	1159.3	1064.6	983.3	911.6	856.6
25°	1870.2	1741.6	1596.1	1486.3	1357.8	1255.7	1149.8	1053.4	970.1	896.3	843.3
27.5°	1866.4	1730.4	1581.0	1465.6	1335.2	1229.3	1121.4	1025.0	943.6	869.9	815.2
30°	1811.6	1677.4	1526.1	1408.8	1280.2	1174.4	1066.5	972.1	892.6	816.9	765.9
32.5°	1726.5	1588.5	1441.0	1310.5	1200.9	1096.9	994.7	898.2	822.6	748.8	699.7
35°	1611.2	1478.8	1336.9	1225.4	1106.4	1006.1	907.7	816.9	745.1	673.3	627.8
37.5°	1476.8	1350.2	1219.8	1104.4	1000.5	907.7	815.2	733.7	661.9	597.6	554.0
40°	1321.8	1204.5	1085.4	987.2	885.0	799.9	714.8	635.4	576.8	518.1	480.4
42.5°	1153.6	1049.6	941.7	856.6	764.0	688.4	607.0	550.4	493.6	440.6	410.3
45°	977.7	886.8	796.2	718.5	642.9	576.8	506.9	454.0	410.3	366.8	340.3
47.5°	803.7	726.2	652.4	590.0	523.8	469.0	419.7	372.5	330.8	295.0	274.2
50°	627.8	576.8	518.1	467.1	414.1	368.7	323.3	289.3	257.2	230.8	217.5
52.5°	489.7	442.5	395.2	353.6	315.7	277.9	247.7	219.3	196.7	179.7	170.2
55°	365.0	327.2	291.2	259.2	228.8	204.3	183.5	166.4	151.3	138.0	134.3
57.5°	260.9	232.6	208.0	183.5	164.4	149.3	136.2	124.8	115.3	105.9	104.0
60°	181.5	160.8	145.5	130.4	119.1	107.8	100.3	92.6	85.1	79.5	77.5
62.5°	121.0	109.7	98.4	90.8	85.1	75.6	71.9	66.1	62.4	56.8	54.9
65°	77.5	70.0	64.4	58.6	54.9	51.1	47.3	43.5	39.6	36.0	36.0
67.5°	47.3	41.6	39.6	36.0	32.1	30.4	28.4	24.5	22.7	22.7	20.8
70°	26.5	22.7	20.8	18.9	17.1	17.1	15.1	13.2	13.2	11.3	11.3
72.5°	13.2	13.2	11.3	11.3	9.5	9.5	7.6	7.6	7.6	5.6	5.6
75°	7.6	7.6	5.6	5.6	5.6	5.6	5.6	5.6	3.8	3.8	3.8
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	5.6	5.6	5.6	5.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	5.6	5.6	5.6	5.6	5.6	3.8	3.8	3.8	3.8	3.8	3.8
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: P1212809

CATALOG NUMBER: LDA4A30950D010TE LAR25NF 4LLWW1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	824.4	805.7	801.8	801.8	722.4	675.1	639.1	629.8
5°	843.3	816.9	803.7	796.2	654.4	571.1	516.2	501.1
7.5°	852.8	815.2	794.2	777.3	588.1	480.4	421.7	404.7
10°	849.2	803.7	775.3	752.6	527.6	410.3	349.8	334.7
12.5°	841.6	790.4	754.5	726.2	476.5	355.6	300.7	285.6
15°	833.9	775.3	733.7	699.7	435.0	317.7	268.6	255.3
17.5°	818.8	758.3	710.9	675.1	408.5	302.6	260.9	253.3
20°	801.8	739.3	690.2	654.4	400.9	317.7	293.2	293.2
22.5°	790.4	726.2	678.9	642.9	414.1	353.6	344.1	349.8
25°	775.3	714.8	667.5	633.5	427.4	382.0	376.3	383.9
27.5°	750.8	690.2	644.9	610.9	419.7	378.2	372.5	376.3
30°	701.5	642.9	603.3	567.3	389.6	349.8	340.3	342.3
32.5°	639.1	582.5	544.5	510.5	346.1	308.3	298.8	298.8
35°	571.1	518.1	482.1	452.0	304.4	270.4	260.9	259.2
37.5°	503.0	454.0	423.6	395.2	266.7	236.4	226.9	225.0
40°	435.0	391.5	363.1	340.3	234.4	209.9	200.4	198.5
42.5°	370.7	332.8	308.3	289.3	204.3	185.3	177.7	175.9
45°	306.3	276.1	257.2	242.1	177.7	158.8	156.9	156.9
47.5°	247.7	223.2	209.9	200.4	151.3	136.2	134.3	136.2
50°	198.5	181.5	172.0	164.4	128.5	115.3	109.7	109.7
52.5°	156.9	145.5	139.9	134.3	105.9	92.6	85.1	83.3
55°	124.8	115.3	111.5	107.8	83.3	68.0	60.5	58.6
57.5°	98.4	90.8	86.9	83.3	62.4	47.3	39.6	37.9
60°	73.8	68.0	64.4	62.4	43.5	28.4	22.7	20.8
62.5°	52.9	49.1	45.4	43.5	26.5	15.1	9.5	7.6
65°	32.1	32.1	28.4	26.5	13.2	5.6	3.8	1.9
67.5°	18.9	17.1	15.1	15.1	5.6	3.8	1.9	1.9
70°	9.5	9.5	7.6	7.6	3.8	1.9	1.9	1.9
72.5°	5.6	5.6	5.6	3.8	3.8	1.9	1.9	1.9
75°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9
77.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	0.0
80°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	0.0
82.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9
85°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

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)