

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: P1191934

Luminaire Tested: **LDA4A35940D010TE 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: P1191934
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: LDA4A35940D010TE 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

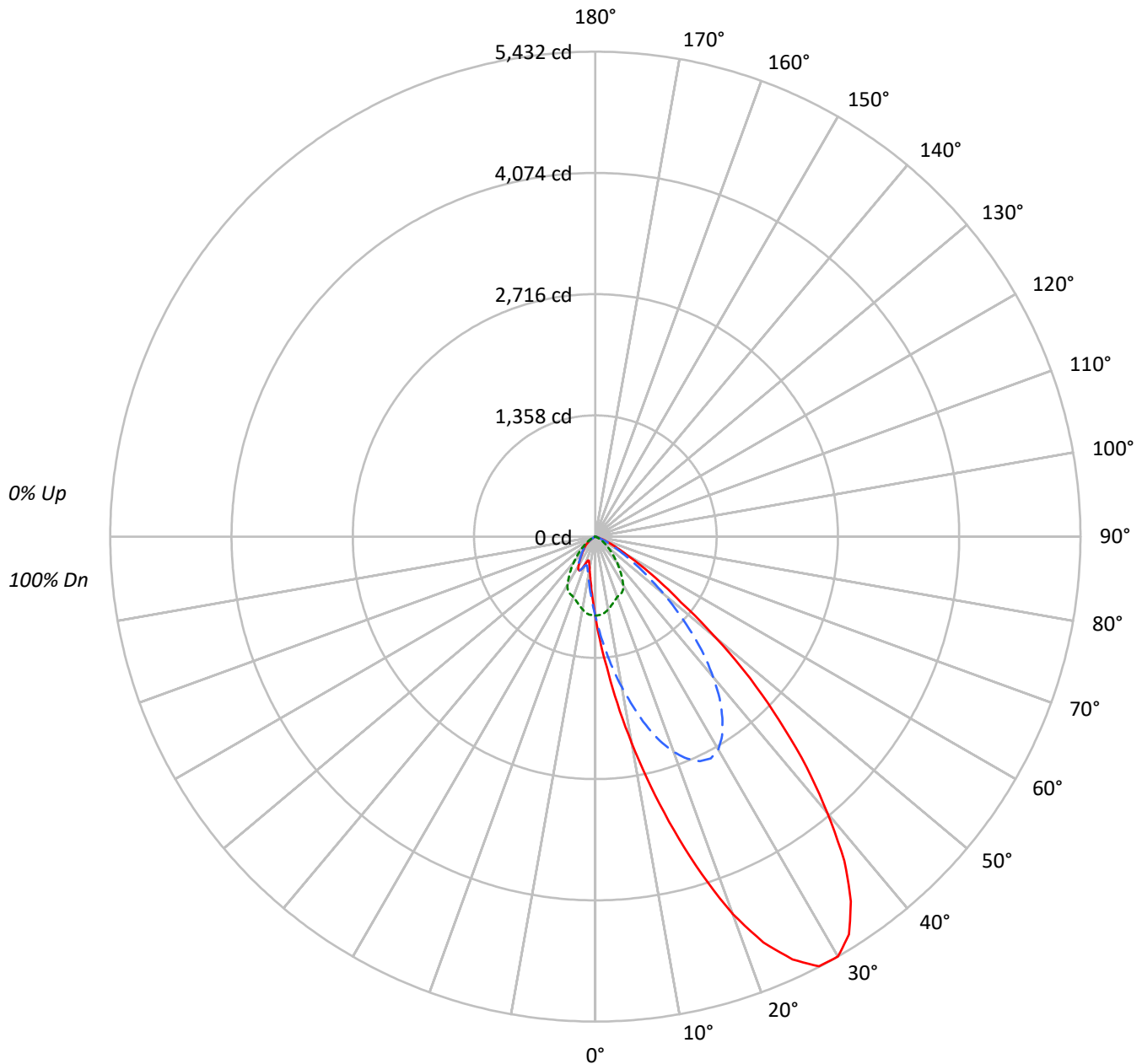
Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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: 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°	109161	109161	109161
5°	181602	108290	68161
10°	294021	103568	46054
15°	434782	98161	35806
20°	590625	94351	42266
25°	711052	94710	57378
30°	773722	88775	53553
35°	751049	74762	42869
40°	650602	60204	35118
45°	507333	46400	30073
50°	336444	34675	23142
55°	187628	25462	13827
60°	98923	16923	5649
65°	53352	8493	613
70°	25497	2993	757
75°	8912	2002	1001
80°	2983	2983	0
85°	8774	5944	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.0
10°-20°	372.6	11.7
20°-30°	766.3	24.0
30°-40°	915.2	28.7
40°-50°	675.8	21.2
50°-60°	284.4	8.9
60°-70°	69.9	2.2
70°-80°	9.6	0.3
80°-90°	3.8	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°	1233.2	38.6
0°-40°	2148.5	67.3
0°-60°	3108.7	97.4
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	885	885	885	885	885	
5°	1467	1263	875	627	550	168
15°	3405	2185	769	349	280	999
25°	5225	2775	696	420	422	2389
35°	4988	2480	496	297	285	3059
45°	2908	1529	266	174	172	2233
55°	872	567	118	75	64	832
65°	183	125	29	6	2	199
75°	19	10	4	2	2	27
85°	6	6	4	2	0	6
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°	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
2.5°	1150.9	1136.4	1136.4	1140.5	1153.0	1142.6	1134.3	1126.0	1134.3	1115.6	1121.8
5°	1466.7	1464.6	1464.6	1447.9	1462.5	1464.6	1447.9	1433.4	1437.6	1410.5	1410.5
7.5°	1882.2	1869.7	1865.4	1842.7	1859.3	1857.2	1830.2	1805.3	1805.3	1761.6	1751.2
10°	2347.5	2330.8	2322.5	2293.4	2308.0	2299.7	2260.3	2222.7	2212.5	2150.1	2127.2
12.5°	2860.6	2850.2	2837.7	2800.3	2812.9	2796.1	2740.1	2686.1	2663.2	2580.2	2540.7
15°	3404.8	3421.5	3400.7	3357.0	3365.3	3336.2	3263.6	3188.8	3153.4	3041.3	2983.1
17.5°	3965.7	3986.5	3963.7	3913.8	3911.7	3872.2	3772.5	3681.2	3629.2	3485.9	3409.0
20°	4499.6	4505.9	4476.8	4422.7	4410.4	4356.3	4235.9	4107.0	4057.1	3880.5	3782.9
22.5°	4919.3	4942.2	4906.7	4867.3	4827.8	4759.4	4618.0	4476.8	4406.1	4204.7	4086.2
25°	5224.6	5276.6	5235.0	5189.3	5145.7	5064.7	4906.7	4755.1	4667.9	4443.5	4308.5
27.5°	5426.2	5476.1	5430.3	5378.4	5332.6	5239.2	5066.8	4921.4	4815.4	4570.2	4424.8
30°	5432.4	5492.6	5444.9	5388.8	5345.1	5251.7	5075.1	4925.4	4807.1	4562.0	4410.4
32.5°	5282.7	5330.6	5282.7	5235.0	5185.2	5095.9	4919.3	4775.9	4651.3	4416.5	4264.9
35°	4987.8	5029.4	4981.6	4925.4	4890.2	4811.2	4643.0	4505.9	4381.3	4165.2	4032.3
37.5°	4580.6	4618.0	4574.5	4543.3	4491.3	4420.8	4266.9	4144.4	4025.9	3830.6	3712.3
40°	4040.6	4119.5	4077.9	4057.1	4009.4	3949.1	3814.1	3706.0	3598.0	3427.7	3330.0
42.5°	3500.5	3575.2	3537.8	3523.2	3481.6	3429.8	3317.5	3226.2	3126.4	2985.2	2902.1
45°	2908.4	2987.4	2951.9	2945.8	2910.4	2871.0	2750.5	2702.7	2615.4	2482.5	2443.1
47.5°	2351.6	2366.2	2332.9	2335.0	2310.0	2283.0	2185.4	2156.3	2112.7	2010.9	1965.2
50°	1753.3	1763.7	1736.7	1745.0	1728.5	1711.7	1645.3	1630.8	1603.7	1535.1	1508.1
52.5°	1206.9	1254.7	1236.0	1244.4	1236.0	1229.8	1202.8	1177.8	1165.5	1121.8	1109.3
55°	872.5	876.6	862.1	870.4	864.2	862.1	845.5	830.9	824.7	797.8	793.6
57.5°	604.6	608.7	608.7	604.6	602.5	598.3	587.9	579.6	575.5	569.2	556.8
60°	401.0	417.6	411.4	415.5	413.4	413.4	405.1	398.9	396.8	384.3	384.3
62.5°	274.3	284.7	280.4	282.6	280.4	280.4	274.3	270.0	270.0	267.9	261.8
65°	182.8	189.0	184.9	187.0	187.0	187.0	182.8	178.7	178.7	176.6	172.4
67.5°	116.3	120.6	118.4	120.6	118.4	120.6	116.3	114.2	112.1	112.1	110.2
70°	70.7	72.6	70.7	72.6	70.7	70.7	68.6	68.6	66.5	64.3	64.3
72.5°	37.4	39.5	39.5	39.5	39.5	39.5	37.4	35.3	35.3	35.3	33.3
75°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	16.6	16.6	16.6
77.5°	8.3	8.3	8.3	8.3	10.4	8.3	8.3	8.3	8.3	8.3	8.3
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	6.2	6.2	6.2	6.2	6.2	6.2	8.3	8.3	8.3	8.3	6.2
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4	10.4	8.3	8.3
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°	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
2.5°	1105.2	1094.8	1090.6	1082.3	1071.9	1065.7	1059.5	1061.5	1047.0	1036.6	1022.0
5°	1383.5	1360.6	1348.3	1329.6	1306.7	1288.0	1271.4	1263.1	1236.0	1217.3	1177.8
7.5°	1711.7	1672.3	1647.4	1614.1	1574.6	1541.4	1508.1	1485.4	1443.8	1408.5	1348.3
10°	2071.1	2010.9	1967.3	1917.4	1857.2	1803.2	1753.3	1711.7	1649.5	1595.4	1516.4
12.5°	2463.8	2378.6	2316.3	2243.5	2158.4	2083.6	1994.3	1946.5	1861.4	1786.6	1684.8
15°	2881.3	2769.2	2681.9	2582.1	2470.0	2370.3	2256.0	2185.4	2073.2	1977.7	1851.0
17.5°	3282.3	3141.1	3026.7	2900.1	2760.9	2632.0	2497.0	2397.2	2260.3	2141.8	1990.1
20°	3631.3	3462.9	3323.9	3170.1	3006.0	2848.1	2700.6	2567.7	2407.6	2268.5	2096.2
22.5°	3915.9	3720.6	3560.6	3382.0	3192.9	3014.3	2846.0	2694.4	2511.6	2357.9	2168.8
25°	4121.5	3907.5	3728.9	3531.5	3323.9	3120.3	2941.5	2775.3	2576.0	2411.9	2210.4
27.5°	4229.5	4003.2	3814.1	3602.2	3382.0	3170.1	2977.0	2800.3	2590.6	2418.0	2210.4
30°	4210.8	3980.3	3785.0	3566.9	3344.7	3132.8	2931.1	2754.7	2538.6	2364.1	2156.3
32.5°	4067.5	3841.0	3650.0	3438.1	3220.0	3014.3	2812.9	2642.4	2426.3	2256.0	2054.6
35°	3830.6	3616.8	3436.0	3234.5	3028.8	2835.6	2652.8	2480.4	2272.6	2110.6	1921.6
37.5°	3523.2	3327.9	3163.8	2977.0	2787.8	2613.3	2432.7	2285.1	2100.2	1948.6	1763.7
40°	3155.5	2983.1	2837.7	2671.5	2501.2	2349.5	2197.9	2054.6	1873.9	1738.7	1580.9
42.5°	2750.5	2602.9	2478.3	2332.9	2185.4	2056.7	1925.7	1801.1	1651.5	1528.9	1381.4
45°	2314.2	2189.6	2087.7	1971.4	1848.9	1728.5	1632.8	1528.9	1389.7	1298.4	1173.8
47.5°	1863.5	1767.8	1690.9	1601.7	1504.1	1429.2	1337.9	1254.7	1153.0	1067.8	965.9
50°	1435.5	1369.1	1315.0	1252.7	1182.0	1113.5	1059.5	995.0	918.2	849.6	768.7
52.5°	1061.5	1017.9	984.6	943.2	895.4	860.0	810.1	762.4	704.2	652.4	590.0
55°	760.3	735.4	714.6	689.7	656.4	625.2	600.4	567.1	525.6	486.1	440.5
57.5°	546.4	519.3	517.3	490.2	477.9	454.9	432.0	407.2	378.1	351.1	317.8
60°	378.1	359.4	351.1	340.7	326.1	311.6	301.2	284.7	263.9	245.2	220.2
62.5°	255.6	243.1	238.8	234.8	222.3	216.1	203.6	193.2	178.7	164.1	147.5
65°	168.3	159.9	155.8	149.6	143.3	139.2	132.9	124.6	112.1	103.8	93.4
67.5°	105.9	99.8	95.5	93.4	87.3	85.1	79.0	74.7	66.5	62.4	56.1
70°	60.3	58.2	53.9	53.9	49.9	45.7	43.6	39.5	37.4	33.3	31.2
72.5°	31.2	31.2	29.1	27.0	24.9	24.9	22.9	20.8	18.7	16.6	16.6
75°	14.5	14.5	14.5	12.5	12.5	12.5	10.4	10.4	10.4	8.3	8.3
77.5°	8.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	6.2	4.2	4.2	4.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2
87.5°	6.2	6.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
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°	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
2.5°	1011.8	1007.5	997.1	995.0	972.3	968.1	955.6	936.9	922.4	918.2	922.4
5°	1163.4	1144.7	1113.5	1107.3	1069.9	1057.4	1030.4	1001.4	976.3	961.9	955.6
7.5°	1319.2	1288.0	1242.3	1219.4	1165.5	1138.3	1099.0	1057.4	1017.9	991.0	974.2
10°	1468.7	1418.8	1335.8	1317.1	1250.6	1206.9	1153.0	1096.9	1047.0	1009.6	982.7
12.5°	1610.0	1549.7	1464.6	1412.6	1325.4	1269.3	1200.7	1132.2	1069.9	1020.0	982.7
15°	1755.4	1676.5	1570.5	1497.7	1398.1	1323.2	1240.2	1161.2	1088.6	1026.2	980.6
17.5°	1875.8	1778.2	1653.6	1566.3	1450.0	1360.6	1265.1	1173.8	1094.8	1024.1	972.3
20°	1965.2	1851.0	1709.6	1607.9	1479.1	1379.5	1275.5	1175.9	1088.6	1011.8	955.6
22.5°	2025.5	1894.5	1740.8	1628.7	1493.7	1385.6	1273.5	1169.5	1080.2	1001.4	941.1
25°	2054.6	1913.2	1753.3	1632.8	1491.6	1379.5	1263.1	1157.2	1065.7	984.6	926.5
27.5°	2050.3	1900.9	1736.7	1610.0	1466.7	1350.4	1231.9	1126.0	1036.6	955.6	895.4
30°	1990.1	1842.7	1676.5	1547.6	1406.4	1290.1	1171.6	1067.8	980.6	897.4	841.3
32.5°	1896.6	1745.0	1583.0	1439.6	1319.2	1204.9	1092.7	986.7	903.7	822.6	768.7
35°	1769.9	1624.5	1468.7	1346.1	1215.3	1105.2	997.1	897.4	818.4	739.6	689.7
37.5°	1622.4	1483.3	1340.0	1213.2	1099.0	997.1	895.4	806.1	727.1	656.4	608.7
40°	1452.1	1323.2	1192.4	1084.4	972.3	878.7	785.3	698.0	633.7	569.2	527.7
42.5°	1267.2	1153.0	1034.5	941.1	839.2	756.2	666.8	604.6	542.2	484.0	450.7
45°	1074.0	974.2	874.6	789.3	706.3	633.7	556.8	498.6	450.7	403.0	373.9
47.5°	882.9	797.8	716.7	648.1	575.5	515.2	461.1	409.3	363.5	324.1	301.2
50°	689.7	633.7	569.2	513.1	454.9	405.1	355.2	317.8	282.6	253.5	238.8
52.5°	538.0	486.1	434.1	388.5	346.9	305.3	272.2	241.0	216.1	197.4	187.0
55°	401.0	359.4	319.9	284.7	251.4	224.4	201.5	182.8	166.2	151.6	147.5
57.5°	286.6	255.6	228.5	201.5	180.7	164.1	149.6	137.1	126.7	116.3	114.2
60°	199.4	176.6	159.9	143.3	130.8	118.4	110.2	101.7	93.4	87.3	85.1
62.5°	132.9	120.6	108.0	99.8	93.4	83.0	79.0	72.6	68.6	62.4	60.3
65°	85.1	76.9	70.7	64.3	60.3	56.1	52.0	47.8	43.6	39.5	39.5
67.5°	52.0	45.7	43.6	39.5	35.3	33.3	31.2	27.0	24.9	24.9	22.9
70°	29.1	24.9	22.9	20.8	18.7	18.7	16.6	14.5	14.5	12.5	12.5
72.5°	14.5	14.5	12.5	12.5	10.4	10.4	8.3	8.3	8.3	6.2	6.2
75°	8.3	8.3	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2	4.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	6.2	6.2	6.2	6.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	6.2	6.2	6.2	6.2	6.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P1191934

CATALOG NUMBER: LDA4A35940D010TE LAR25NF 4LLWW1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
2.5°	905.7	885.0	880.8	880.8	793.6	741.6	702.1	691.8
5°	926.5	897.4	882.9	874.6	718.8	627.3	567.1	550.5
7.5°	936.9	895.4	872.5	853.8	646.0	527.7	463.2	444.5
10°	932.8	882.9	851.7	826.9	579.6	450.7	384.3	367.7
12.5°	924.5	868.3	828.8	797.8	523.5	390.6	330.3	313.7
15°	916.1	851.7	806.1	768.7	477.9	349.0	295.1	280.4
17.5°	899.5	833.0	781.0	741.6	448.8	332.4	286.6	278.3
20°	880.8	812.2	758.3	718.8	440.5	349.0	322.0	322.0
22.5°	868.3	797.8	745.8	706.3	454.9	388.5	378.1	384.3
25°	851.7	785.3	733.3	695.9	469.6	419.7	413.4	421.6
27.5°	824.7	758.3	708.4	671.0	461.1	415.5	409.3	413.4
30°	770.6	706.3	662.8	623.3	428.0	384.3	373.9	376.0
32.5°	702.1	639.8	598.3	560.9	380.2	338.6	328.2	328.2
35°	627.3	569.2	529.7	496.5	334.4	297.0	286.6	284.7
37.5°	552.6	498.6	465.3	434.1	292.9	259.6	249.2	247.1
40°	477.9	430.1	398.9	373.9	257.5	230.6	220.2	218.1
42.5°	407.2	365.6	338.6	317.8	224.4	203.6	195.3	193.2
45°	336.5	303.3	282.6	266.0	195.3	174.5	172.4	172.4
47.5°	272.2	245.2	230.6	220.2	166.2	149.6	147.5	149.6
50°	218.1	199.4	189.0	180.7	141.2	126.7	120.6	120.6
52.5°	172.4	159.9	153.7	147.5	116.3	101.7	93.4	91.5
55°	137.1	126.7	122.5	118.4	91.5	74.7	66.5	64.3
57.5°	108.0	99.8	95.5	91.5	68.6	52.0	43.6	41.6
60°	81.1	74.7	70.7	68.6	47.8	31.2	24.9	22.9
62.5°	58.2	53.9	49.9	47.8	29.1	16.6	10.4	8.3
65°	35.3	35.3	31.2	29.1	14.5	6.2	4.2	2.1
67.5°	20.8	18.7	16.6	16.6	6.2	4.2	2.1	2.1
70°	10.4	10.4	8.3	8.3	4.2	2.1	2.1	2.1
72.5°	6.2	6.2	6.2	4.2	4.2	2.1	2.1	2.1
75°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1
77.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	0.0
80°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	0.0
82.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1
85°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1
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)