

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: P1192356

Luminaire Tested: **LDA6A50930D010TE LARH20SP 6LA1LI 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: P1192356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26670)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A50930D010TE LARH20SP 6LA1LI 30°
Description: PORTFOLIO 6" 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

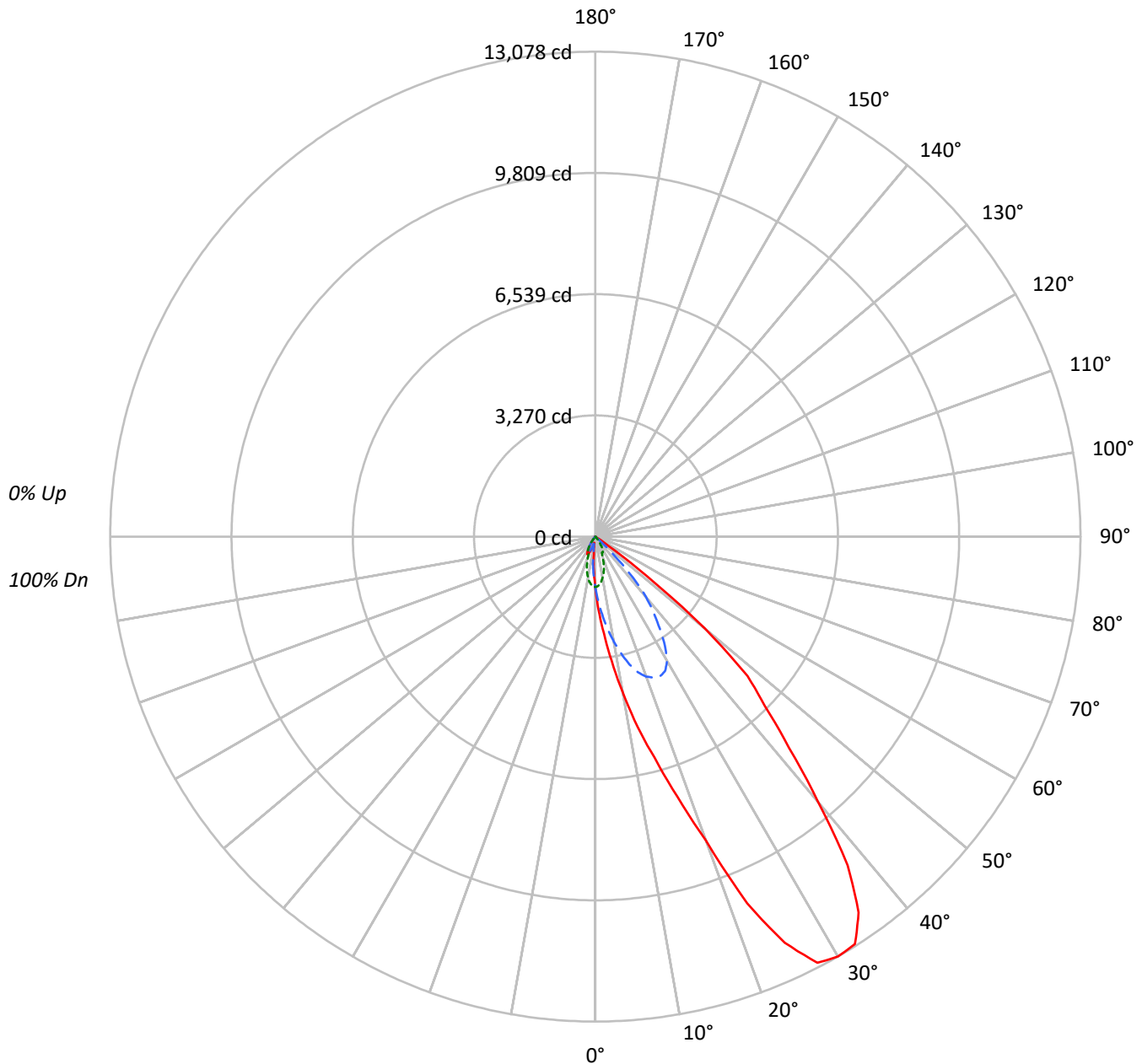
Lumens per Lamp: N/A
Luminaire Lumens: 4249.8 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.6 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	109	106	104	110	107	105	102		103	101	99			99	98	96			96
2	106	100	95	91	103	98	94	90		95	91	88			92	89	86			89
3	99	91	85	81	97	90	84	80		87	83	79			85	81	77			82
4	92	83	77	72	91	82	76	71		80	75	71			78	73	70			76
5	86	76	69	64	85	75	69	64		74	68	63			72	67	63			70
6	81	70	63	58	79	69	62	58		68	62	57			66	61	57			65
7	76	64	57	52	74	64	57	52		62	56	52			61	55	51			60
8	71	59	52	47	69	59	52	47		57	51	47			56	51	47			55
9	66	55	48	43	65	54	47	43		53	47	43			52	47	43			51
10	62	51	44	39	61	50	44	39		49	43	39			48	43	39			48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	74561	74561	74561
5°	143490	71428	26755
10°	237348	62691	9625
15°	350405	50579	15341
20°	508804	32209	25966
25°	730911	28133	31484
30°	827843	24371	22915
35°	827912	12655	11758
40°	668696	4723	4924
45°	500726	1628	1775
50°	327802	648	571
55°	38527	554	86
60°	1162	636	0
65°	246	752	0
70°	144	930	0
75°	0	1419	0
80°	0	2115	284
85°	0	4214	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.3
10°-20°	568.6	13.4
20°-30°	1247.5	29.4
30°-40°	1384.9	32.6
40°-50°	801.7	18.9
50°-60°	95.3	2.2
60°-70°	3.7	0.1
70°-80°	4.0	0.1
80°-90°	3.7	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°	1956.5	46.0
0°-40°	3341.4	78.6
0°-60°	4238.4	99.7
0°-90°	4249.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4249.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1360	1360	1360	1360	1360	
5°	2608	2108	1298	743	486	300
15°	6174	3571	891	242	270	1854
25°	12084	4147	465	518	520	5458
35°	12371	3025	189	186	176	7458
45°	6459	713	21	25	23	5048
55°	403	6	6	4	1	887
65°	2	4	6	4	0	3
75°	0	4	7	4	0	0
85°	0	4	7	4	1	0
90°	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°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1978.1	1939.0	1899.8	1897.0	1864.5	1821.5	1851.1	1788.0	1807.2	1759.4	1729.8
5°	2607.5	2564.6	2507.3	2491.0	2435.6	2371.6	2395.6	2284.8	2273.3	2181.6	2108.0
7.5°	3379.4	3329.6	3239.9	3196.9	3105.2	3009.6	3021.2	2843.5	2790.0	2639.1	2504.4
10°	4263.8	4228.4	4099.6	4010.7	3866.5	3727.0	3703.1	3440.4	3324.0	3087.0	2875.0
12.5°	5256.3	5203.7	5025.0	4890.4	4693.6	4516.9	4464.4	4088.1	3878.9	3535.9	3235.1
15°	6174.1	6138.8	5985.0	5782.4	5533.1	5305.0	5215.2	4775.7	4445.2	3989.7	3571.3
17.5°	7350.9	7253.5	6976.5	6579.0	6222.8	5995.5	5886.6	5336.4	4931.5	4375.5	3841.6
20°	8721.6	8589.7	8165.6	7615.4	7024.2	6624.9	6385.1	5793.0	5291.6	4645.8	4017.4
22.5°	10705.4	10436.9	9631.8	8646.1	7823.7	7290.7	6947.8	6087.1	5554.3	4814.9	4114.8
25°	12083.7	11847.8	11112.3	9816.2	8498.0	7884.8	7402.4	6330.8	5726.1	4915.2	4147.2
27.5°	12956.7	12831.6	11985.3	10690.1	9019.6	8221.9	7676.6	6484.6	5791.1	4912.4	4081.4
30°	13077.9	13085.6	12300.5	10924.0	9060.6	8230.6	7617.3	6418.6	5656.4	4727.0	3864.6
32.5°	13025.5	12921.4	11952.8	10480.8	8605.9	7877.2	7294.5	6140.7	5331.6	4354.5	3488.2
35°	12371.1	12139.1	11115.1	9491.4	7944.0	7250.5	6707.1	5695.6	4814.9	3860.7	3025.0
37.5°	11171.5	10803.7	9660.4	8277.3	7132.1	6520.8	6110.1	5126.3	4280.1	3346.9	2564.6
40°	9344.2	8948.8	8142.7	7177.1	6274.3	5855.1	5460.6	4501.7	3677.4	2821.5	2119.5
42.5°	7731.1	7514.1	6912.5	6173.2	5572.3	5140.7	4764.4	3851.2	3100.4	2310.5	1501.5
45°	6458.7	6311.7	5932.4	5390.0	4793.9	4400.4	4057.5	3126.2	2265.6	1467.1	712.6
47.5°	5561.9	5398.5	4968.7	4397.6	3697.4	3269.5	2883.6	1949.4	1236.9	567.4	166.2
50°	3843.6	3650.6	3193.1	2642.9	2044.0	1722.2	1452.8	788.0	324.8	98.4	19.1
52.5°	1739.3	1605.6	1319.0	1011.5	668.6	496.7	323.8	136.6	34.4	14.3	10.6
55°	403.1	353.4	268.4	165.3	82.2	54.5	36.3	14.3	10.6	7.6	5.8
57.5°	25.8	22.9	20.1	16.2	13.4	11.5	10.6	7.6	5.8	4.8	3.9
60°	10.6	10.6	9.5	7.6	6.7	5.8	5.8	3.9	3.9	3.9	3.9
62.5°	4.8	4.8	4.8	3.9	2.8	2.8	2.8	2.8	2.8	2.8	3.9
65°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	3.9
67.5°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	2.8	2.8	3.9
70°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	2.8	3.9	3.9
72.5°	0.0	0.9	0.9	0.9	1.9	1.9	1.9	1.9	2.8	3.9	3.9
75°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9
77.5°	0.0	0.0	0.9	0.9	1.9	1.9	1.9	1.9	2.8	3.9	3.9
80°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9
82.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9
85°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9
87.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9
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°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1685.8	1644.7	1601.8	1557.9	1537.8	1505.3	1453.8	1417.5	1385.0	1342.0	1287.6
5°	2019.1	1927.5	1831.0	1741.2	1697.3	1640.0	1539.7	1458.5	1383.1	1298.0	1214.0
7.5°	2351.5	2193.0	2040.2	1894.0	1823.4	1741.2	1586.5	1461.4	1343.0	1225.5	1110.8
10°	2646.7	2417.5	2198.7	1995.3	1899.8	1789.9	1587.5	1420.3	1271.3	1126.2	987.7
12.5°	2921.9	2611.4	2325.8	2062.2	1937.1	1805.3	1559.8	1361.0	1182.5	1013.4	852.0
15°	3164.5	2772.8	2415.6	2093.7	1947.6	1789.9	1509.2	1281.8	1082.2	891.2	683.9
17.5°	3337.4	2865.5	2448.0	2075.6	1911.3	1736.5	1427.0	1183.5	967.6	732.6	485.2
20°	3429.0	2894.2	2427.0	2018.2	1841.6	1652.4	1330.5	1079.4	831.9	552.1	396.4
22.5°	3461.5	2876.9	2368.8	1937.1	1750.8	1558.8	1232.2	970.4	676.3	468.1	406.0
25°	3446.2	2825.4	2293.3	1841.6	1655.3	1462.3	1136.6	831.0	547.3	465.1	432.6
27.5°	3344.0	2709.8	2152.0	1698.3	1511.0	1320.0	970.4	613.2	484.3	436.5	445.1
30°	3118.6	2474.8	1910.3	1464.2	1287.6	1086.0	660.0	450.8	380.2	385.0	385.0
32.5°	2755.7	2123.3	1573.1	1163.4	935.1	677.2	376.3	282.7	287.4	286.5	282.7
35°	2310.5	1734.5	1207.3	714.4	458.5	311.4	190.0	184.4	190.0	189.1	186.3
37.5°	1901.7	1329.6	747.9	286.5	184.4	134.6	112.7	112.7	114.7	114.7	113.6
40°	1434.6	781.3	261.7	94.6	66.0	63.0	64.0	64.0	64.9	66.0	66.9
42.5°	803.3	257.9	68.8	37.2	37.2	35.3	35.3	35.3	37.2	37.2	38.3
45°	216.8	55.4	22.9	21.9	21.0	20.1	20.1	20.1	21.0	21.0	21.9
47.5°	32.5	16.2	13.4	12.4	12.4	11.5	11.5	11.5	12.4	12.4	12.4
50°	12.4	9.5	8.6	7.6	7.6	7.6	6.7	6.7	7.6	7.6	7.6
52.5°	7.6	6.7	5.8	4.8	5.8	4.8	4.8	4.8	5.8	5.8	5.8
55°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.8	5.8
57.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.8	5.8
60°	3.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.8	5.8	5.8
62.5°	3.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.8	5.8	5.8
65°	3.9	4.8	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
67.5°	3.9	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
70°	4.8	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
72.5°	4.8	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.7
75°	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7
77.5°	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7
80°	4.8	4.8	5.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7
82.5°	4.8	4.8	5.8	5.8	5.8	6.7	5.8	6.7	6.7	6.7	6.7
85°	4.8	4.8	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	6.7
87.5°	4.8	4.8	5.8	5.8	5.8	6.7	5.8	5.8	6.7	6.7	6.7
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°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1249.3	1227.4	1187.2	1159.5	1148.1	1125.1	1082.2	1077.4	1025.8	999.1	971.4
5°	1142.4	1087.9	1020.1	977.1	952.2	903.5	836.7	806.1	743.1	702.0	641.9
7.5°	1011.5	927.5	834.7	780.4	740.3	658.1	539.7	469.0	375.4	320.9	281.8
10°	861.5	749.8	609.4	519.6	453.6	357.3	283.7	260.8	235.9	215.8	196.7
12.5°	685.8	497.7	362.0	309.5	284.6	256.0	225.5	198.7	193.9	195.8	202.5
15°	467.0	332.4	286.5	265.5	248.4	220.7	227.3	235.0	241.7	246.5	255.0
17.5°	351.5	307.5	262.7	263.6	270.3	277.0	287.4	298.9	308.6	315.1	326.6
20°	346.7	319.0	324.8	336.3	343.9	353.4	371.6	382.0	394.5	403.1	415.5
22.5°	377.2	402.1	409.7	418.3	429.8	440.4	459.4	473.7	483.3	491.9	500.5
25°	448.0	467.0	473.7	480.4	488.0	495.8	508.1	520.5	517.7	520.5	521.5
27.5°	452.7	467.0	470.0	473.7	473.7	480.4	480.4	488.0	475.7	473.7	470.0
30°	389.7	394.5	397.3	397.3	393.5	398.2	393.5	399.3	385.0	380.2	375.4
32.5°	287.4	294.1	291.3	290.4	287.4	292.3	286.5	292.3	279.8	277.0	272.2
35°	184.4	194.8	190.0	193.0	191.1	195.8	192.0	195.8	186.3	185.3	182.4
37.5°	115.6	119.4	117.5	118.4	118.4	121.4	119.4	121.4	117.5	117.5	114.7
40°	67.8	69.7	69.7	70.7	71.6	72.5	71.6	73.6	71.6	72.5	69.7
42.5°	39.2	40.1	40.1	41.1	42.0	42.0	42.0	43.9	42.0	43.0	41.1
45°	21.9	23.8	22.9	23.8	23.8	24.9	24.9	24.9	24.9	24.9	23.8
47.5°	13.4	14.3	14.3	14.3	14.3	14.3	15.3	15.3	14.3	14.3	14.3
50°	8.6	8.6	8.6	8.6	9.5	9.5	9.5	8.6	8.6	8.6	7.6
52.5°	5.8	5.8	5.8	5.8	6.7	5.8	5.8	5.8	4.8	4.8	4.8
55°	5.8	5.8	5.8	5.8	5.8	4.8	4.8	4.8	3.9	2.8	2.8
57.5°	5.8	5.8	5.8	5.8	5.8	4.8	4.8	3.9	3.9	2.8	2.8
60°	5.8	5.8	5.8	5.8	5.8	4.8	4.8	3.9	3.9	2.8	2.8
62.5°	5.8	5.8	5.8	5.8	5.8	4.8	4.8	3.9	3.9	2.8	2.8
65°	5.8	5.8	5.8	5.8	5.8	4.8	4.8	4.8	3.9	2.8	2.8
67.5°	5.8	6.7	5.8	5.8	5.8	5.8	4.8	4.8	3.9	2.8	2.8
70°	5.8	6.7	5.8	5.8	5.8	5.8	4.8	4.8	3.9	2.8	2.8
72.5°	6.7	6.7	6.7	5.8	5.8	5.8	5.8	4.8	3.9	2.8	2.8
75°	6.7	6.7	6.7	5.8	5.8	5.8	5.8	4.8	3.9	2.8	2.8
77.5°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	4.8	3.9	3.9	2.8
80°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	4.8	3.9	3.9	2.8
82.5°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	4.8	3.9	3.9	2.8
85°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	4.8	3.9	3.9	2.8
87.5°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	4.8	3.9	3.9	2.8
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: P1192356

CATALOG NUMBER: LDA6A50930D010TE LARH20SP 6LA1LI 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	978.1	968.6	961.9	946.6	937.9	928.4	914.1	907.4
5°	620.9	592.1	574.1	547.3	506.2	515.7	493.8	486.2
7.5°	267.5	255.0	251.2	245.4	235.9	231.1	230.2	228.3
10°	183.3	172.9	171.9	172.9	173.8	172.9	172.9	172.9
12.5°	206.3	207.3	209.2	212.1	213.0	213.0	212.1	212.1
15°	259.7	261.7	264.6	268.4	270.3	270.3	270.3	270.3
17.5°	333.3	336.3	341.0	344.8	348.6	348.6	348.6	349.5
20°	428.9	428.9	434.6	439.3	442.3	443.2	444.1	445.1
22.5°	513.9	514.8	518.7	522.4	525.4	524.4	522.4	522.4
25°	530.1	527.2	528.2	528.2	527.2	522.4	522.4	520.5
27.5°	472.8	469.0	469.0	466.1	465.1	463.3	459.4	457.5
30°	375.4	373.5	372.5	369.6	374.4	367.7	364.0	362.0
32.5°	270.3	271.2	270.3	267.5	272.2	265.5	263.6	260.8
35°	181.5	182.4	181.5	179.6	179.6	179.6	177.7	175.7
37.5°	114.7	113.6	114.7	114.7	116.6	113.6	113.6	111.7
40°	69.7	69.7	70.7	70.7	71.6	69.7	68.8	68.8
42.5°	41.1	41.1	42.0	42.0	43.0	41.1	41.1	41.1
45°	23.8	23.8	23.8	23.8	24.9	23.8	22.9	22.9
47.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	12.4
50°	7.6	7.6	7.6	7.6	7.6	6.7	6.7	6.7
52.5°	4.8	3.9	3.9	3.9	3.9	2.8	2.8	2.8
55°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9
57.5°	1.9	1.9	1.9	0.9	0.9	0.9	0.0	0.0
60°	1.9	1.9	0.9	0.9	0.9	0.0	0.0	0.0
62.5°	1.9	1.9	0.9	0.9	0.9	0.0	0.0	0.0
65°	1.9	1.9	0.9	0.9	0.9	0.0	0.0	0.0
67.5°	1.9	1.9	1.9	0.9	0.9	0.0	0.0	0.0
70°	1.9	1.9	1.9	0.9	0.9	0.9	0.0	0.0
72.5°	1.9	1.9	1.9	0.9	0.9	0.9	0.0	0.0
75°	2.8	1.9	1.9	1.9	0.9	0.9	0.0	0.0
77.5°	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.0
80°	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.9
82.5°	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.9
85°	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.9
87.5°	2.8	1.9	1.9	1.9	0.9	0.9	0.0	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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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)