

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: P1192407

Luminaire Tested: **LDA6A50950D010TE 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: P1192407
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: LDA6A50950D010TE LARH20SP 6LA1LI 30°
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, Self-flanged, 20° Spot, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

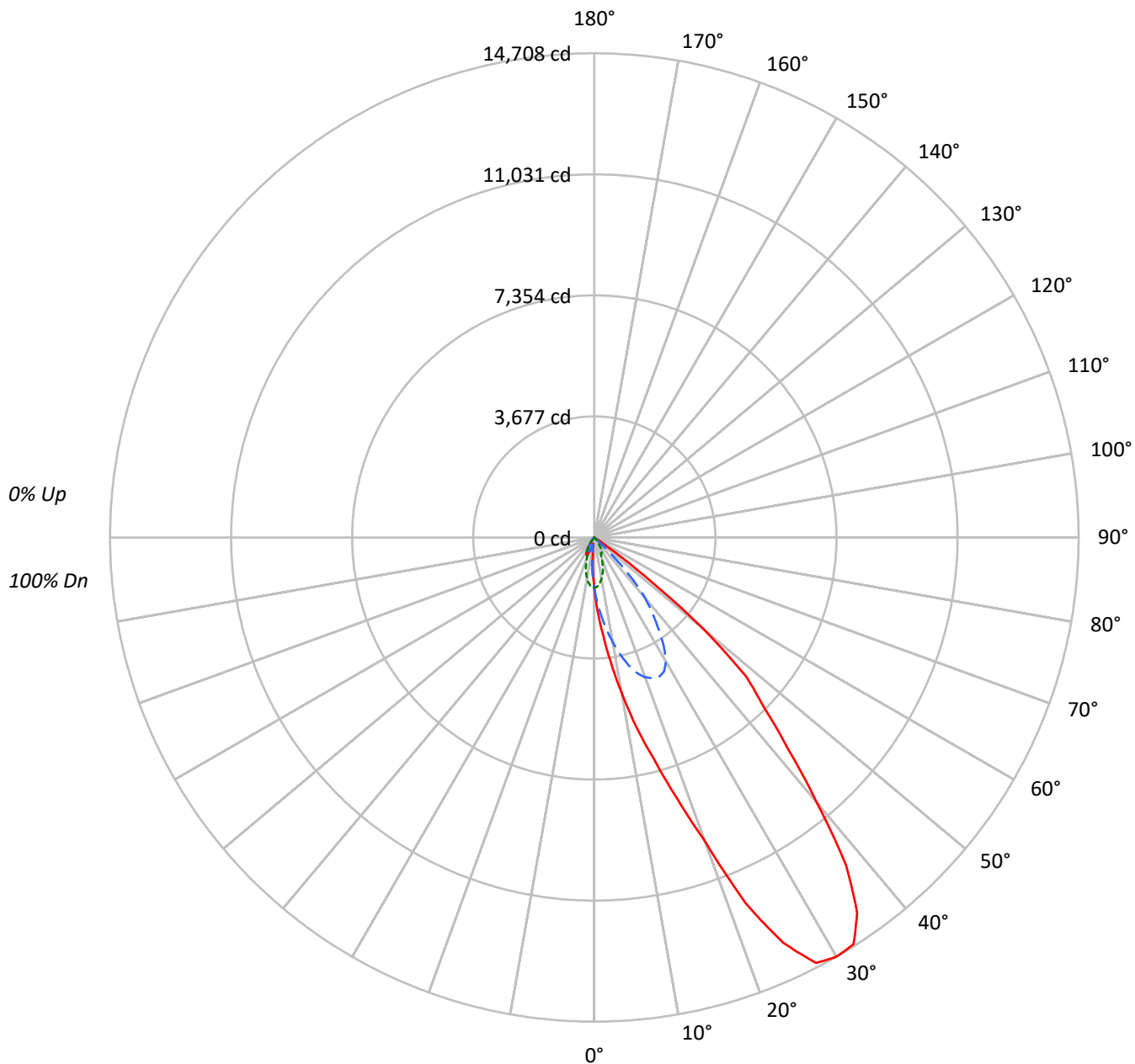
Lumens per Lamp: N/A
Luminaire Lumens: 4779.5 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.6 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	83858	83858	83858
5°	161385	80343	30085
10°	266929	70506	10827
15°	394089	56879	17253
20°	572224	36228	29204
25°	822017	31647	35409
30°	931042	27409	25770
35°	931121	14235	13224
40°	752059	5296	5539
45°	563144	1837	2000
50°	368662	725	648
55°	43325	612	105
60°	1305	702	0
65°	285	830	0
70°	176	1026	0
75°	0	1610	0
80°	0	2399	347
85°	0	4780	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	3.3
10°-20°	639.5	13.4
20°-30°	1403.1	29.4
30°-40°	1557.6	32.6
40°-50°	901.7	18.9
50°-60°	107.1	2.2
60°-70°	4.1	0.1
70°-80°	4.5	0.1
80°-90°	4.2	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°	2200.4	46.0
0°-40°	3757.9	78.6
0°-60°	4766.7	99.7
0°-90°	4779.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4779.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1530	1530	1530	1530	1530	
5°	2933	2371	1460	836	547	337
15°	6944	4016	1002	272	304	2085
25°	13590	4664	523	582	585	6138
35°	13913	3402	213	210	198	8388
45°	7264	801	24	28	26	5677
55°	453	6	6	4	1	997
65°	2	4	6	4	0	4
75°	0	4	8	4	0	0
85°	0	4	8	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°	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7
2.5°	2224.7	2180.7	2136.7	2133.4	2096.8	2048.5	2081.9	2010.9	2032.4	1978.7	1945.4
5°	2932.7	2884.3	2819.9	2801.6	2739.3	2667.3	2694.1	2569.5	2556.7	2453.6	2370.8
7.5°	3800.6	3744.7	3643.8	3595.4	3492.3	3384.9	3397.7	3197.9	3137.9	2968.1	2816.5
10°	4795.2	4755.6	4610.6	4510.6	4348.3	4191.6	4164.8	3869.4	3738.3	3471.8	3233.5
12.5°	5911.5	5852.4	5651.5	5499.9	5278.7	5079.9	5020.8	4597.6	4362.4	3976.9	3638.4
15°	6943.8	6903.9	6731.0	6503.3	6222.9	5966.3	5865.2	5371.1	4999.4	4487.1	4016.5
17.5°	8267.2	8157.6	7846.1	7399.2	6998.6	6742.8	6620.4	6001.6	5546.2	4921.0	4320.6
20°	9808.7	9660.5	9183.4	8564.8	7899.8	7450.9	7181.2	6515.2	5951.1	5225.0	4518.2
22.5°	12039.8	11738.1	10832.4	9723.8	8798.9	8199.5	7813.8	6846.0	6246.7	5415.2	4627.8
25°	13589.9	13324.6	12497.5	11039.7	9557.3	8867.7	8325.2	7119.9	6440.0	5527.9	4664.3
27.5°	14571.9	14431.1	13479.3	12022.7	10143.8	9247.0	8633.6	7292.9	6513.0	5524.8	4590.2
30°	14708.2	14716.8	13833.9	12285.9	10190.0	9256.5	8566.9	7218.7	6361.5	5316.4	4346.3
32.5°	14649.1	14532.0	13442.8	11787.4	9678.7	8859.1	8203.8	6906.1	5996.3	4897.4	3923.1
35°	13913.3	13652.3	12500.7	10674.5	8934.3	8154.4	7543.1	6405.6	5415.2	4342.0	3402.0
37.5°	12564.1	12150.5	10864.7	9309.1	8021.2	7333.7	6871.8	5765.3	4813.5	3764.1	2884.3
40°	10509.1	10064.4	9157.7	8071.6	7056.6	6585.0	6141.3	5062.8	4135.8	3173.2	2383.7
42.5°	8694.7	8450.9	7774.2	6942.6	6267.0	5781.5	5358.3	4331.3	3486.9	2598.5	1688.6
45°	7263.8	7098.4	6671.9	6061.8	5391.6	4948.9	4563.3	3515.9	2548.0	1650.0	801.3
47.5°	6255.2	6071.5	5588.1	4945.6	4158.3	3677.0	3243.0	2192.4	1391.1	638.0	186.9
50°	4322.7	4105.7	3591.1	2972.3	2298.9	1936.8	1633.8	886.2	365.2	110.6	21.5
52.5°	1956.1	1805.8	1483.5	1137.6	751.9	558.6	364.1	153.6	38.7	16.1	11.9
55°	453.3	397.5	301.9	185.7	92.5	61.3	40.8	16.1	11.9	8.5	6.4
57.5°	29.0	25.8	22.6	18.3	15.0	12.9	11.9	8.5	6.4	5.4	4.3
60°	11.9	11.9	10.7	8.5	7.6	6.4	6.4	4.3	4.3	4.3	4.3
62.5°	5.4	5.4	5.4	4.3	3.2	3.2	3.2	3.2	3.2	3.2	4.3
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3
67.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.2	3.2	4.3
70°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.2	4.3	4.3
72.5°	0.0	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.2	4.3	4.3
75°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	3.2	4.3	4.3
77.5°	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	3.2	4.3	4.3
80°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	3.2	4.3	4.3
82.5°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	3.2	4.3	4.3
85°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	3.2	4.3	4.3
87.5°	0.0	0.0	1.1	1.1	1.1	2.2	2.2	2.2	3.2	4.3	4.3
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7
2.5°	1895.9	1849.8	1801.5	1752.0	1729.4	1692.9	1635.0	1594.2	1557.6	1509.2	1448.1
5°	2270.9	2167.8	2059.3	1958.3	1908.9	1844.4	1731.6	1640.3	1555.5	1460.0	1365.3
7.5°	2644.7	2466.4	2294.4	2130.2	2050.7	1958.3	1784.2	1643.5	1510.3	1378.2	1249.4
10°	2976.7	2718.8	2472.8	2244.1	2136.7	2013.1	1785.4	1597.3	1429.8	1266.6	1110.7
12.5°	3286.1	2937.0	2615.8	2319.3	2178.5	2030.3	1754.3	1530.7	1330.0	1139.7	958.3
15°	3558.9	3118.4	2716.7	2354.7	2190.3	2013.1	1697.2	1441.6	1217.1	1002.2	769.2
17.5°	3753.4	3222.6	2753.2	2334.3	2149.5	1952.9	1604.9	1331.0	1088.3	824.0	545.8
20°	3856.4	3254.9	2729.6	2269.8	2071.1	1858.4	1496.5	1213.8	935.7	621.0	445.7
22.5°	3892.9	3235.5	2664.1	2178.5	1969.0	1753.1	1385.7	1091.4	760.6	526.3	456.6
25°	3875.8	3177.5	2579.2	2071.1	1861.6	1644.7	1278.3	934.5	615.6	523.2	486.7
27.5°	3760.8	3047.5	2420.2	1910.0	1699.5	1484.6	1091.4	689.7	544.6	491.0	500.6
30°	3507.3	2783.2	2148.5	1646.8	1448.1	1221.4	742.2	507.1	427.6	433.0	433.0
32.5°	3099.2	2387.9	1769.2	1308.4	1051.6	761.6	423.2	318.0	323.3	322.3	318.0
35°	2598.5	1950.7	1357.8	803.6	515.6	350.2	213.7	207.3	213.7	212.7	209.5
37.5°	2138.8	1495.3	841.2	322.3	207.3	151.5	126.7	126.7	128.9	128.9	127.8
40°	1613.5	878.8	294.3	106.3	74.0	70.9	72.0	72.0	73.0	74.0	75.2
42.5°	903.4	290.1	77.4	41.9	41.9	39.8	39.8	39.8	41.9	41.9	43.0
45°	243.9	62.3	25.8	24.6	23.7	22.6	22.6	22.6	23.7	23.7	24.6
47.5°	36.5	18.3	15.0	13.9	13.9	12.9	12.9	12.9	13.9	13.9	13.9
50°	13.9	10.7	9.7	8.5	8.5	8.5	7.6	7.6	8.5	8.5	8.5
52.5°	8.5	7.6	6.4	5.4	6.4	5.4	5.4	5.4	6.4	6.4	6.4
55°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	6.4
57.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	6.4
60°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	6.4	6.4
62.5°	4.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.4	6.4	6.4
65°	4.3	5.4	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
67.5°	4.3	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
70°	5.4	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
72.5°	5.4	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.6
75°	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.6	7.6
77.5°	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	7.6	7.6	7.6
80°	5.4	5.4	6.4	6.4	6.4	6.4	6.4	6.4	7.6	7.6	7.6
82.5°	5.4	5.4	6.4	6.4	6.4	7.6	6.4	7.6	7.6	7.6	7.6
85°	5.4	5.4	6.4	6.4	6.4	6.4	6.4	7.6	7.6	7.6	7.6
87.5°	5.4	5.4	6.4	6.4	6.4	7.6	6.4	6.4	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7
2.5°	1405.1	1380.3	1335.3	1304.2	1291.3	1265.5	1217.1	1211.8	1153.7	1123.6	1092.5
5°	1284.7	1223.6	1147.3	1099.0	1071.0	1016.2	941.0	906.6	835.7	789.6	721.9
7.5°	1137.6	1043.0	938.8	877.7	832.5	740.1	606.9	527.5	422.2	361.0	316.9
10°	969.0	843.2	685.4	584.4	510.2	401.8	319.1	293.2	265.4	242.8	221.3
12.5°	771.4	559.7	407.1	348.0	320.0	287.9	253.6	223.4	218.0	220.2	227.8
15°	525.3	373.8	322.3	298.6	279.2	248.1	255.6	264.3	271.8	277.1	286.8
17.5°	395.3	345.9	295.4	296.5	304.0	311.5	323.3	336.1	346.9	354.4	367.4
20°	389.9	358.8	365.2	378.1	386.7	397.5	417.9	429.6	443.7	453.3	467.3
22.5°	424.3	452.3	460.8	470.6	483.4	495.2	516.7	532.8	543.6	553.2	562.8
25°	503.8	525.3	532.8	540.4	548.9	557.4	571.5	585.4	582.3	585.4	586.6
27.5°	509.2	525.3	528.5	532.8	532.8	540.4	540.4	548.9	535.0	532.8	528.5
30°	438.4	443.7	446.9	446.9	442.6	448.0	442.6	449.1	433.0	427.6	422.2
32.5°	323.3	330.8	327.6	326.6	323.3	328.7	322.3	328.7	314.7	311.5	306.2
35°	207.3	219.1	213.7	217.0	214.9	220.2	215.9	220.2	209.5	208.4	205.2
37.5°	130.0	134.3	132.1	133.2	133.2	136.4	134.3	136.4	132.1	132.1	128.9
40°	76.3	78.4	78.4	79.5	80.6	81.6	80.6	82.8	80.6	81.6	78.4
42.5°	44.1	45.1	45.1	46.2	47.2	47.2	47.2	49.4	47.2	48.4	46.2
45°	24.6	26.8	25.8	26.8	26.8	28.0	28.0	28.0	28.0	28.0	26.8
47.5°	15.0	16.1	16.1	16.1	16.1	16.1	17.2	17.2	16.1	16.1	16.1
50°	9.7	9.7	9.7	9.7	10.7	10.7	10.7	9.7	9.7	9.7	8.5
52.5°	6.4	6.4	6.4	6.4	7.6	6.4	6.4	6.4	5.4	5.4	5.4
55°	6.4	6.4	6.4	6.4	6.4	5.4	5.4	5.4	4.3	3.2	3.2
57.5°	6.4	6.4	6.4	6.4	6.4	5.4	5.4	4.3	4.3	3.2	3.2
60°	6.4	6.4	6.4	6.4	6.4	5.4	5.4	4.3	4.3	3.2	3.2
62.5°	6.4	6.4	6.4	6.4	6.4	5.4	5.4	4.3	4.3	3.2	3.2
65°	6.4	6.4	6.4	6.4	6.4	5.4	5.4	5.4	4.3	3.2	3.2
67.5°	6.4	7.6	6.4	6.4	6.4	6.4	5.4	5.4	4.3	3.2	3.2
70°	6.4	7.6	6.4	6.4	6.4	6.4	5.4	5.4	4.3	3.2	3.2
72.5°	7.6	7.6	7.6	6.4	6.4	6.4	6.4	5.4	4.3	3.2	3.2
75°	7.6	7.6	7.6	6.4	6.4	6.4	6.4	5.4	4.3	3.2	3.2
77.5°	7.6	7.6	7.6	7.6	7.6	6.4	6.4	5.4	4.3	4.3	3.2
80°	7.6	7.6	7.6	7.6	7.6	6.4	6.4	5.4	4.3	4.3	3.2
82.5°	7.6	7.6	7.6	7.6	7.6	6.4	6.4	5.4	4.3	4.3	3.2
85°	7.6	7.6	7.6	7.6	7.6	6.4	6.4	5.4	4.3	4.3	3.2
87.5°	7.6	7.6	7.6	7.6	7.6	6.4	6.4	5.4	4.3	4.3	3.2
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: P1192407

CATALOG NUMBER: LDA6A50950D010TE LARH20SP 6LA1LI 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7	1529.7
2.5°	1099.9	1089.2	1081.7	1064.5	1054.9	1044.2	1028.0	1020.4
5°	698.3	666.0	645.6	615.6	569.3	580.1	555.4	546.7
7.5°	300.8	286.8	282.5	276.1	265.4	260.0	258.9	256.7
10°	206.3	194.5	193.3	194.5	195.5	194.5	194.5	194.5
12.5°	232.0	233.2	235.2	238.5	239.5	239.5	238.5	238.5
15°	292.2	294.3	297.6	301.9	304.0	304.0	304.0	304.0
17.5°	374.8	378.1	383.6	387.8	392.1	392.1	392.1	393.2
20°	482.2	482.2	488.8	494.1	497.4	498.4	499.5	500.6
22.5°	578.0	579.0	583.3	587.6	590.8	589.7	587.6	587.6
25°	596.1	593.0	594.0	594.0	593.0	587.6	587.6	585.4
27.5°	531.8	527.5	527.5	524.3	523.2	520.9	516.7	514.5
30°	422.2	420.1	418.9	415.8	421.1	413.6	409.2	407.1
32.5°	304.0	305.0	304.0	300.8	306.2	298.6	296.5	293.2
35°	204.0	205.2	204.0	201.9	201.9	201.9	199.8	197.6
37.5°	128.9	127.8	128.9	128.9	131.1	127.8	127.8	125.7
40°	78.4	78.4	79.5	79.5	80.6	78.4	77.4	77.4
42.5°	46.2	46.2	47.2	47.2	48.4	46.2	46.2	46.2
45°	26.8	26.8	26.8	26.8	28.0	26.8	25.8	25.8
47.5°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	13.9
50°	8.5	8.5	8.5	8.5	8.5	7.6	7.6	7.6
52.5°	5.4	4.3	4.3	4.3	4.3	3.2	3.2	3.2
55°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1
57.5°	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0
60°	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
62.5°	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
65°	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
67.5°	2.2	2.2	2.2	1.1	1.1	0.0	0.0	0.0
70°	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0
72.5°	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0
75°	3.2	2.2	2.2	2.2	1.1	1.1	0.0	0.0
77.5°	3.2	2.2	2.2	2.2	1.1	1.1	1.1	0.0
80°	3.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
82.5°	3.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
85°	3.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
87.5°	3.2	2.2	2.2	2.2	1.1	1.1	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)