

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: P1192222

Luminaire Tested: **LDA6A40940D010TE LARH20SP 6LAL1LI 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1192222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26673)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A40940D010TE LARH20SP 6LAL1LI 30°
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

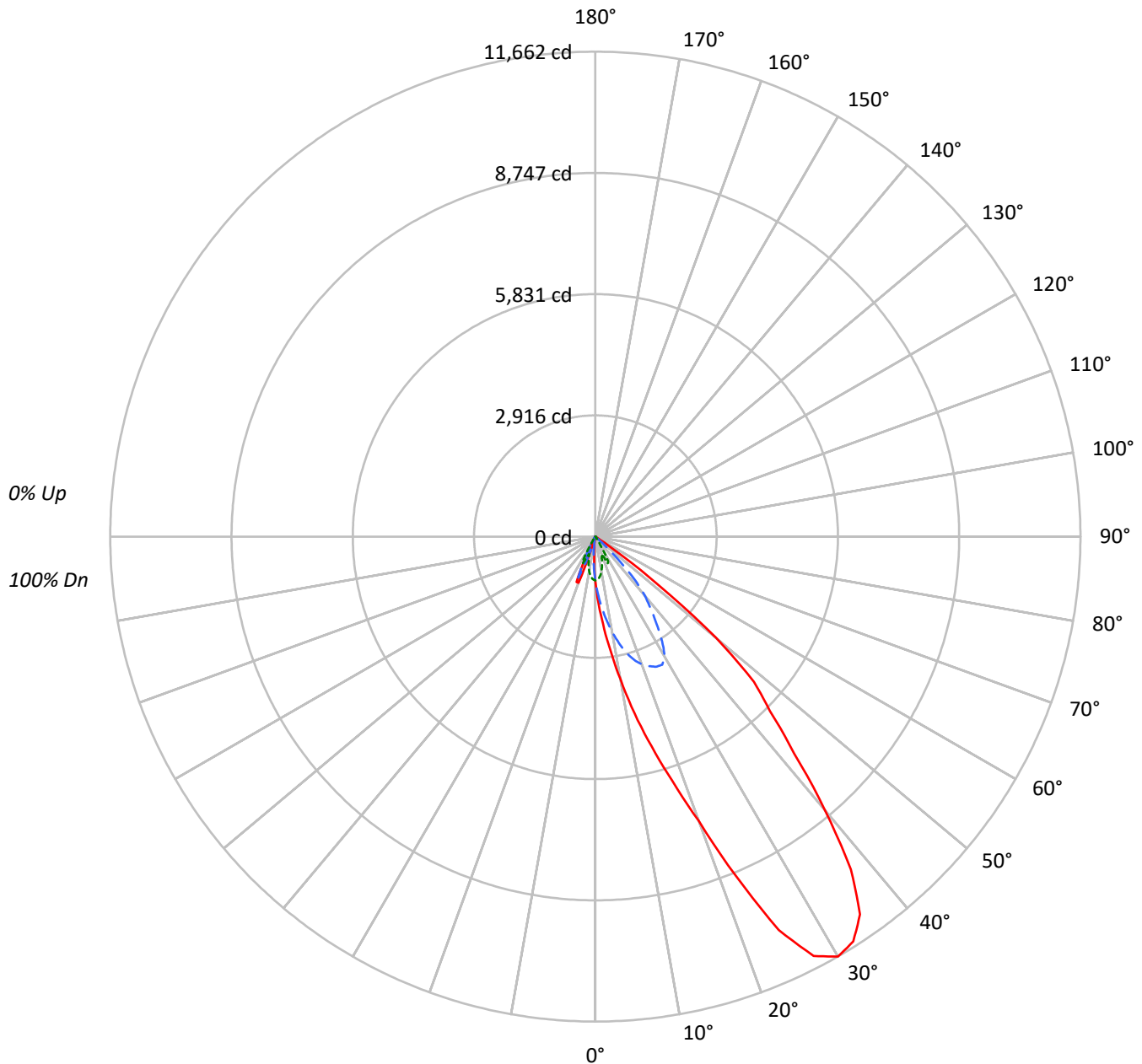
Lumens per Lamp: N/A
Luminaire Lumens: 3725.5 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.56 / 1.31
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	112	109	106	104	110	107	104	102		103	101	99			99	97	96			96
2	105	100	95	91	103	98	93	90		95	91	88			91	88	86			89
3	99	91	85	80	96	89	84	79		87	82	78			84	80	77			82
4	92	83	76	71	90	82	76	71		79	74	70			77	73	69			75
5	86	76	69	64	84	75	68	63		73	67	63			71	66	62			69
6	80	69	62	57	79	69	62	57		67	61	56			65	60	56			64
7	75	64	56	51	73	63	56	51		62	55	51			60	55	51			59
8	70	59	51	46	69	58	51	46		57	50	46			56	50	46			55
9	66	54	47	42	64	53	47	42		52	46	42			51	46	42			50
10	62	50	43	38	60	49	43	38		48	42	38			48	42	38			47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	57813	57813	57813
5°	115777	54997	14748
10°	194157	47015	4030
15°	296494	35244	5857
20°	424814	25774	68973
25°	631567	42765	35373
30°	738190	18908	5501
35°	742257	3935	2904
40°	614594	2204	1689
45°	460040	1403	1333
50°	322412	998	776
55°	51821	774	612
60°	3180	789	493
65°	934	1051	467
70°	577	1154	721
75°	402	1356	953
80°	284	2020	1421
85°	566	4026	1698

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	2.9
10°-20°	461.4	12.4
20°-30°	1110.2	29.8
30°-40°	1182.9	31.8
40°-50°	737.6	19.8
50°-60°	107.8	2.9
60°-70°	6.8	0.2
70°-80°	5.4	0.1
80°-90°	4.1	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°	1680.9	45.1
0°-40°	2863.7	76.9
0°-60°	3709.2	99.6
0°-90°	3725.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1055	1055	1055	1055	1055	
5°	2104	1687	999	498	268	243
15°	5224	2903	621	96	103	1550
25°	10441	3453	707	732	585	4705
35°	11091	2562	59	54	43	6691
45°	5934	750	18	21	17	4671
55°	542	13	8	9	6	959
65°	7	6	8	7	4	11
75°	2	4	6	6	4	2
85°	1	4	6	6	3	1
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°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1568.8	1515.4	1533.6	1493.6	1479.2	1482.8	1453.8	1430.3	1417.6	1386.9	1355.2
5°	2103.9	2042.2	2060.3	2000.7	1963.5	1955.3	1910.1	1859.4	1814.2	1745.4	1687.4
7.5°	2752.8	2676.8	2689.5	2599.9	2524.8	2499.4	2430.7	2331.9	2240.6	2123.7	2012.4
10°	3487.9	3416.4	3412.8	3276.1	3147.6	3097.8	2997.4	2834.4	2678.7	2503.1	2320.2
12.5°	4354.3	4246.6	4228.5	4052.9	3860.9	3779.5	3639.2	3390.2	3144.0	2887.8	2624.4
15°	5224.2	5108.4	5079.4	4858.6	4590.6	4481.0	4293.6	3962.4	3622.9	3260.7	2903.1
17.5°	6151.3	5965.6	5809.1	5553.7	5244.2	5131.9	4889.3	4464.8	4037.5	3590.3	3112.3
20°	7281.9	7074.6	6854.6	6418.3	5850.7	5629.9	5363.6	4884.8	4351.6	3834.7	3267.1
22.5°	8831.7	8491.3	8024.2	7322.7	6542.3	6227.3	5816.3	5196.2	4593.3	4013.0	3370.3
25°	10441.3	9971.4	9458.2	8380.0	7175.1	6790.3	6249.9	5434.3	4785.2	4144.2	3452.7
27.5°	11368.2	10990.8	10408.7	9278.9	7688.3	7183.3	6560.4	5613.5	4907.4	4207.6	3476.2
30°	11661.6	11355.6	10826.9	9668.1	7860.3	7258.4	6589.4	5615.4	4848.6	4097.2	3340.4
32.5°	11539.3	11248.8	10664.0	9424.7	7545.4	6991.3	6342.2	5387.2	4558.9	3757.8	2991.9
35°	11091.2	10707.4	9996.8	8616.3	7009.4	6459.1	5852.5	4978.9	4113.5	3296.9	2561.9
37.5°	10085.5	9687.2	8878.8	7579.7	6318.8	5839.8	5351.9	4521.8	3665.4	2877.8	2187.1
40°	8588.2	8167.3	7502.8	6591.2	5573.7	5246.9	4835.0	4015.8	3191.1	2466.9	1840.4
42.5°	7077.3	6807.6	6413.8	5691.4	4982.5	4660.3	4260.2	3464.4	2734.7	2043.2	1397.8
45°	5933.9	5720.4	5458.7	5002.5	4333.5	4030.3	3658.2	2909.5	2131.9	1365.2	749.6
47.5°	5170.9	4910.1	4682.0	4173.2	3455.3	3087.0	2692.3	1917.4	1229.4	592.0	207.3
50°	3780.4	3466.2	3253.5	2683.2	2031.4	1724.5	1435.7	889.9	398.3	132.2	34.4
52.5°	1916.4	1679.2	1554.3	1174.1	775.8	580.3	426.4	183.7	78.8	26.2	20.0
55°	542.2	436.4	391.1	258.0	140.3	98.7	64.3	32.6	23.6	18.1	12.7
57.5°	56.2	47.9	45.3	37.1	29.8	28.1	25.3	20.0	15.4	12.7	8.1
60°	29.0	26.2	25.3	22.6	19.0	17.2	16.3	13.6	10.0	7.2	6.4
62.5°	15.4	14.5	12.7	11.7	10.0	10.0	9.1	7.2	6.4	6.4	5.5
65°	7.2	7.2	7.2	7.2	6.4	6.4	5.5	5.5	5.5	5.5	5.5
67.5°	5.5	5.5	5.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	3.6	3.6	3.6	3.6	2.7	2.7	2.7	2.7	2.7	3.6	3.6
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.7	2.7	3.6	3.6
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.7	2.7	3.6	3.6
77.5°	0.9	0.9	1.9	1.9	1.9	1.9	1.9	2.7	2.7	3.6	3.6
80°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.7	2.7	3.6	3.6
82.5°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.7	2.7	3.6	3.6
85°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	2.7	3.6	3.6
87.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	2.7	3.6	3.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1317.1	1294.5	1258.3	1222.1	1211.3	1181.3	1146.1	1104.4	1065.5	1034.7	1004.8
5°	1594.1	1533.6	1465.7	1374.2	1341.6	1290.9	1214.9	1133.4	1062.7	999.4	940.5
7.5°	1870.2	1756.2	1632.2	1500.0	1443.9	1368.8	1249.2	1134.3	1029.3	936.0	848.2
10°	2114.7	1939.1	1764.4	1582.4	1503.6	1406.8	1247.5	1100.8	966.9	844.6	734.2
12.5°	2340.1	2097.5	1865.7	1632.2	1533.6	1416.7	1220.3	1042.9	883.5	740.5	611.0
15°	2537.4	2225.1	1938.1	1655.8	1530.8	1396.8	1166.8	963.2	785.8	621.0	480.7
17.5°	2675.1	2297.6	1959.0	1631.3	1493.6	1339.8	1085.4	868.1	673.5	500.7	340.4
20°	2757.4	2316.6	1939.1	1577.9	1425.7	1266.5	1009.3	789.4	600.2	441.8	307.8
22.5°	2802.7	2325.6	1924.6	1558.9	1404.0	1252.0	1012.9	803.0	641.0	534.1	523.3
25°	2848.0	2354.5	1950.0	1580.6	1435.7	1294.5	1066.4	851.8	741.4	707.0	718.7
27.5°	2845.2	2336.4	1926.4	1560.7	1421.2	1274.6	1020.2	794.9	718.7	665.3	621.0
30°	2684.1	2164.4	1745.4	1357.0	1197.7	1002.1	679.9	467.1	357.6	298.7	268.9
32.5°	2311.1	1765.2	1333.5	943.3	787.6	569.4	292.4	153.9	132.2	117.7	105.0
35°	1921.0	1405.9	1003.9	594.8	395.6	216.3	100.5	65.2	60.7	58.8	57.9
37.5°	1584.2	1111.7	659.9	238.0	142.2	80.5	46.2	41.7	40.7	41.7	40.7
40°	1250.2	733.2	261.6	79.6	43.4	35.3	32.6	29.8	29.8	30.8	29.8
42.5°	748.7	273.4	79.6	29.8	28.1	25.3	24.5	23.6	22.6	23.6	23.6
45°	247.1	69.7	26.2	20.8	20.0	19.0	18.1	18.1	18.1	18.1	19.0
47.5°	56.2	24.5	18.1	15.4	15.4	14.5	14.5	13.6	14.5	14.5	15.4
50°	21.7	15.4	12.7	11.7	11.7	10.9	10.9	10.9	10.9	11.7	11.7
52.5°	13.6	10.9	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.0
55°	9.1	8.1	7.2	7.2	7.2	7.2	7.2	8.1	8.1	8.1	8.1
57.5°	6.4	6.4	6.4	6.4	7.2	6.4	7.2	6.4	6.4	7.2	8.1
60°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.2	7.2	8.1
62.5°	5.5	6.4	6.4	6.4	6.4	6.4	6.4	7.2	7.2	7.2	8.1
65°	5.5	5.5	6.4	6.4	6.4	6.4	7.2	7.2	7.2	8.1	8.1
67.5°	4.5	5.5	5.5	6.4	6.4	6.4	6.4	7.2	7.2	7.2	8.1
70°	4.5	4.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	7.2	7.2
72.5°	4.5	4.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	7.2
75°	4.5	4.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	7.2
77.5°	4.5	4.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	7.2
80°	4.5	4.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	6.4	7.2
82.5°	4.5	4.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4	6.4
85°	4.5	4.5	5.5	5.5	5.5	5.5	5.5	5.5	6.4	6.4	6.4
87.5°	4.5	4.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.4
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°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	965.0	927.9	909.8	882.6	884.5	839.2	822.0	789.4	771.3	752.3	730.6
5°	869.0	803.9	757.7	721.5	701.6	642.7	602.9	551.3	497.9	446.3	403.8
7.5°	748.7	662.7	592.0	545.9	517.8	399.2	323.2	262.5	239.0	220.9	202.8
10°	614.6	507.9	382.9	319.5	280.6	224.5	201.8	167.5	143.0	120.4	106.8
12.5°	479.8	316.8	229.0	210.1	196.5	145.8	115.0	106.8	86.9	82.4	80.5
15°	301.4	208.2	162.0	139.4	121.3	101.4	93.2	92.4	96.0	96.9	96.0
17.5°	213.7	166.5	122.2	119.5	119.5	130.3	132.2	140.3	147.5	153.9	154.8
20°	274.2	246.3	287.0	305.1	336.8	375.7	432.8	512.4	582.1	652.7	707.0
22.5°	525.0	586.7	677.2	708.9	762.3	845.5	924.3	997.6	1071.8	1127.0	1138.9
25°	772.2	814.7	868.1	856.4	872.6	868.1	823.8	764.0	732.3	674.4	654.5
27.5°	591.2	546.7	509.7	467.1	446.3	406.4	349.4	313.2	280.6	248.0	234.4
30°	240.8	210.9	189.2	173.8	164.8	143.0	132.2	120.4	115.0	106.8	102.3
32.5°	94.1	88.7	86.0	83.3	82.4	79.6	76.9	73.3	72.4	72.4	68.8
35°	56.2	56.2	56.2	55.2	56.2	55.2	54.3	53.4	54.3	54.3	51.6
37.5°	39.8	40.7	40.7	40.7	40.7	40.7	40.7	40.7	39.8	39.8	37.1
40°	29.8	30.8	31.7	30.8	31.7	31.7	30.8	29.8	29.8	29.8	28.1
42.5°	24.5	24.5	24.5	24.5	25.3	24.5	24.5	24.5	24.5	24.5	23.6
45°	20.0	20.0	20.0	20.0	20.8	20.8	20.0	20.0	20.8	20.8	20.0
47.5°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.5	14.5	14.5	13.6
50°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	12.7	11.7	11.7
52.5°	10.0	10.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.0
55°	9.1	9.1	10.0	10.0	10.0	10.0	10.0	9.1	9.1	9.1	8.1
57.5°	8.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	8.1	8.1	7.2
60°	8.1	8.1	9.1	9.1	9.1	9.1	8.1	8.1	7.2	7.2	6.4
62.5°	8.1	8.1	9.1	9.1	9.1	8.1	8.1	7.2	7.2	6.4	6.4
65°	8.1	9.1	9.1	9.1	9.1	8.1	8.1	7.2	7.2	6.4	6.4
67.5°	8.1	9.1	9.1	9.1	9.1	8.1	8.1	7.2	7.2	6.4	6.4
70°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.2	7.2	6.4	6.4
72.5°	7.2	8.1	8.1	8.1	8.1	8.1	7.2	7.2	7.2	6.4	6.4
75°	7.2	7.2	7.2	7.2	8.1	7.2	7.2	7.2	6.4	6.4	5.5
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.4	6.4	6.4	5.5
80°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.4	6.4	5.5	5.5
82.5°	7.2	7.2	7.2	7.2	7.2	7.2	6.4	6.4	5.5	5.5	5.5
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.5	5.5	4.5	4.5
87.5°	6.4	6.4	6.4	6.4	6.4	5.5	5.5	4.5	3.6	3.6	2.7
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: P1192222

CATALOG NUMBER: LDA6A40940D010TE LARH20SP 6LAL1LI 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	707.0	691.6	688.0	688.0	679.9	663.6	660.8	655.4
5°	357.6	319.5	312.3	304.2	290.6	274.2	269.7	268.0
7.5°	184.6	168.4	165.6	160.3	152.0	143.9	142.2	141.2
10°	108.6	98.7	94.1	86.0	77.9	73.3	73.3	72.4
12.5°	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
15°	97.7	100.5	100.5	101.4	102.3	103.2	105.0	103.2
17.5°	164.8	178.4	177.4	179.2	185.6	193.7	190.1	194.6
20°	800.2	904.3	934.2	964.1	1054.6	1139.7	1122.5	1182.3
22.5°	1149.7	1181.3	1168.7	1160.6	1179.6	1169.6	1212.2	1184.1
25°	616.5	610.1	610.1	583.0	588.4	574.8	592.9	584.8
27.5°	227.2	207.3	205.5	192.8	201.0	182.0	187.4	183.7
30°	97.7	98.7	95.0	92.4	89.6	87.8	87.8	86.9
32.5°	67.0	67.0	65.2	63.4	61.5	59.8	58.8	57.9
35°	49.8	49.8	47.9	47.1	46.2	44.3	43.4	43.4
37.5°	36.2	36.2	35.3	34.4	32.6	31.7	30.8	30.8
40°	28.1	27.2	26.2	26.2	24.5	24.5	23.6	23.6
42.5°	22.6	22.6	22.6	21.7	20.8	20.0	20.0	20.0
45°	20.0	20.0	19.0	18.1	18.1	18.1	17.2	17.2
47.5°	13.6	13.6	12.7	12.7	11.7	11.7	10.9	10.9
50°	10.9	10.9	10.9	10.9	10.0	9.1	9.1	9.1
52.5°	10.0	9.1	9.1	9.1	8.1	8.1	7.2	7.2
55°	8.1	8.1	7.2	7.2	6.4	6.4	6.4	6.4
57.5°	7.2	6.4	6.4	6.4	5.5	5.5	5.5	5.5
60°	6.4	5.5	5.5	5.5	4.5	4.5	4.5	4.5
62.5°	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5
65°	5.5	5.5	5.5	4.5	4.5	4.5	4.5	3.6
67.5°	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5
70°	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5
72.5°	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5
75°	5.5	5.5	5.5	5.5	4.5	4.5	4.5	4.5
77.5°	5.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	5.5	4.5	4.5	4.5	4.5	3.6	3.6	4.5
82.5°	4.5	4.5	4.5	4.5	3.6	3.6	3.6	3.6
85°	3.6	3.6	3.6	3.6	2.7	2.7	2.7	2.7
87.5°	2.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)