Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P179860

Luminaire Tested: **LDA6A55827D010TE LARH20SP 6LA1LI 30°**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P179860
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26686)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LDA6A55827D010TE LARH20SP 6LA1LI 30°
Description:	PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, Self-flanged, 20° Spot, 30° Tilt
Light Source:	(1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4737.3 lumens
Efficiency:	N/A
Efficacy:	77.7 lumens/watt
Spacing Criteria (0/90/45):	2.35 / 0.6 / 1.31
Luminous Opening:	Circular (Dia: 0.5' x H: 0')
CIE Type:	Direct

Input Watts (W):	61
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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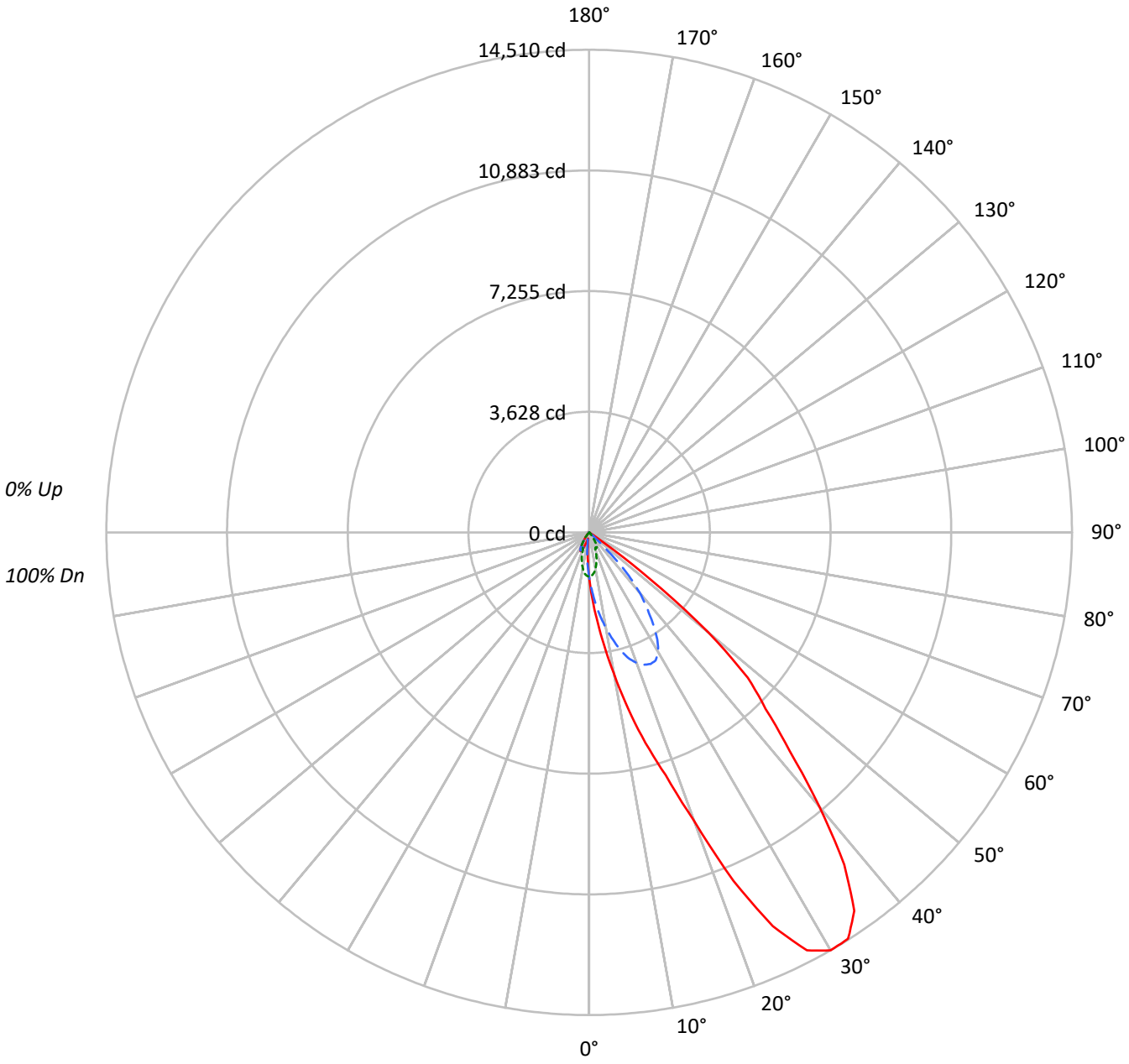
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	49
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	41	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	73316	73316	73316
5°	142064	69866	23564
10°	241362	61138	10582
15°	371926	48769	16828
20°	538405	31736	29263
25°	789935	30625	37629
30°	918483	29011	28834
35°	929662	15366	15245
40°	769699	5789	6398
45°	581316	1969	2334
50°	397718	725	725
55°	55319	631	86
60°	1447	614	0
65°	363	856	0
70°	144	1058	0
75°	0	1398	0
80°	0	2368	284
85°	0	4717	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.0
10°-20°	593.1	12.5
20°-30°	1352.9	28.6
30°-40°	1565.7	33.0
40°-50°	944.2	19.9
50°-60°	128.3	2.7
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°	2086.3	44.0
0°-40°	3652.0	77.1
0°-60°	4724.5	99.7
0°-90°	4737.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1337	1337	1337	1337	1337	
5°	2582	2114	1270	695	428	300
15°	6553	3684	859	264	296	1940
25°	13060	4365	506	609	622	5910
35°	13892	3328	230	234	228	8372
45°	7498	906	25	31	30	5863
55°	579	7	7	5	1	1135
65°	3	4	7	4	0	4
75°	0	5	7	5	0	0
85°	0	5	8	5	0	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°	1337.4	*1337.4*	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1934.1	*1916.2*	1923.7	1904.0	1854.1	1843.7	1842.8	1829.6	1787.3	1754.3	1714.8
5°	2581.6	*2580.7*	2585.4	2543.0	2455.5	2428.2	2415.0	2383.0	2280.4	2201.4	2113.8
7.5°	3390.1	*3384.4*	3378.8	3301.6	3164.2	3111.5	3077.6	2961.8	2820.7	2680.4	2524.2
10°	4335.9	*4333.1*	4311.4	4175.9	3955.7	3858.7	3792.9	3609.3	3382.5	3183.0	2917.6
12.5°	5434.2	*5408.8*	5370.2	5171.7	4869.6	4764.1	4619.2	4328.4	3980.2	3674.3	3303.5
15°	6553.3	*6516.6*	6447.9	6192.8	5818.2	5638.5	5458.7	5075.7	4603.2	4159.0	3683.7
17.5°	7647.9	*7607.4*	7446.4	7013.5	6647.4	6428.1	6228.6	5702.5	5147.2	4575.9	3973.6
20°	9229.0	*9082.2*	8801.7	8119.4	7438.9	7043.6	6810.2	6254.0	5566.9	4901.6	4179.7
22.5°	11341.0	*11015.3*	10417.7	9309.0	8336.8	7766.4	7384.3	6644.6	5869.1	5114.3	4306.7
25°	13059.5	*12911.7*	12232.2	10654.9	9137.7	8465.7	7934.0	6955.2	6089.3	5256.4	4365.1
27.5°	14167.3	*14130.5*	13354.1	11769.2	9791.8	8909.9	8316.1	7160.3	6195.6	5286.5	4336.9
30°	*14509.8*	*14567.2*	*13821.8*	*12147.5*	*9981.0*	*8999.4*	*8350.0*	*7163.2*	*6113.8*	*5150.0*	*4156.2*
32.5°	14484.4	*14487.2*	13573.4	11820.9	9673.2	8739.6	8067.6	6925.0	5811.7	4808.4	3812.6
35°	13891.5	*13745.6*	12712.2	10817.7	8957.0	8133.5	7508.6	6463.9	5313.8	4294.5	3327.9
37.5°	12589.9	*12398.8*	11194.1	9533.0	8109.0	7347.6	6843.2	5858.7	4720.8	3745.8	2827.2
40°	10755.6	*10484.5*	9490.6	8338.7	7181.0	6608.8	6185.3	5182.0	4086.5	3207.5	2357.6
42.5°	8919.4	*8786.7*	8129.7	7193.3	6400.8	5862.5	5420.1	4473.3	3476.6	2676.7	1763.7
45°	7498.2	*7384.3*	6942.9	6325.5	5548.1	5056.8	4630.5	3734.5	2701.1	1795.7	906.3
47.5°	6462.9	*6370.7*	5948.1	5299.7	4447.0	3909.6	3470.0	2448.9	1530.3	775.5	226.8
50°	4663.4	*4569.3*	4155.2	3404.2	2634.3	2184.4	1868.2	1093.6	433.9	157.2	23.5
52.5°	2286.1	*2208.9*	1927.5	1442.8	968.5	696.5	509.2	205.2	49.9	16.9	11.3
55°	578.8	*531.8*	443.3	278.6	136.5	81.9	52.7	18.8	12.2	9.4	6.6
57.5°	32.9	*32.0*	29.2	21.6	16.0	14.1	12.2	9.4	6.6	5.6	4.7
60°	13.2	*12.2*	11.3	9.4	7.5	6.6	6.6	4.7	3.8	3.8	3.8
62.5°	5.6	*5.6*	5.6	4.7	3.8	3.8	3.8	2.8	3.8	3.8	3.8
65°	2.8	*2.8*	2.8	1.9	1.9	1.9	2.8	2.8	2.8	3.8	3.8
67.5°	1.9	*0.9*	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.8	3.8
70°	0.9	*0.9*	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.8	4.7
72.5°	0.0	*0.9*	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.8	4.7
75°	0.0	*0.9*	0.9	0.9	1.9	1.9	1.9	2.8	3.8	3.8	4.7
77.5°	0.0	*0.9*	0.9	0.9	1.9	1.9	1.9	2.8	3.8	3.8	4.7
80°	0.0	*0.9*	0.9	0.9	1.9	1.9	1.9	2.8	3.8	3.8	4.7
82.5°	0.0	*0.0*	0.9	0.9	1.9	1.9	1.9	2.8	3.8	3.8	4.7
85°	0.0	*0.0*	0.9	0.9	1.9	1.9	1.9	2.8	3.8	3.8	4.7
87.5°	0.0	*0.0*	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.8	4.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1664.0	1630.1	1580.2	1547.3	1515.3	1485.1	1435.3	1407.0	1356.2	1309.2	1268.7
5°	2008.4	1923.7	1821.1	1733.6	1677.1	1621.6	1520.9	1446.6	1353.4	1269.6	1192.4
7.5°	2356.7	2207.0	2038.5	1894.6	1807.0	1721.4	1570.8	1450.3	1318.6	1199.0	1085.2
10°	2672.9	2448.0	2209.8	2003.7	1885.1	1774.1	1575.5	1415.5	1246.1	1098.3	955.3
12.5°	2966.5	2658.8	2348.2	2079.0	1932.2	1798.6	1555.7	1360.0	1158.6	983.5	816.9
15°	3228.2	2832.9	2448.9	2122.3	1950.1	1792.0	1509.6	1281.9	1055.0	859.3	648.5
17.5°	3426.8	2941.1	2493.1	2115.7	1918.1	1742.1	1430.6	1184.0	944.9	707.8	469.6
20°	3547.2	2987.2	2483.7	2064.9	1849.4	1663.0	1336.4	1077.6	812.2	544.0	414.1
22.5°	3598.0	2983.5	2439.5	1988.7	1764.7	1576.4	1246.1	974.1	672.9	492.2	432.0
25°	3606.5	2944.9	2377.4	1904.9	1680.9	1493.6	1154.8	856.5	584.5	506.3	483.8
27.5°	3541.6	2854.5	2260.7	1784.4	1563.3	1369.4	1018.3	680.5	548.7	504.5	519.5
30°	*3349.6*	*2648.4*	*2054.5*	*1572.7*	*1359.0*	*1165.2*	*727.5*	*533.6*	*455.5*	*458.3*	*462.1*
32.5°	3011.7	2305.8	1723.3	1263.0	1029.6	768.0	452.7	356.7	346.3	346.3	344.5
35°	2560.9	1887.0	1352.4	799.0	512.0	368.9	234.3	235.3	230.6	229.6	228.7
37.5°	2095.0	1488.9	856.5	330.3	222.1	154.3	138.4	140.2	138.4	141.2	139.3
40°	1651.7	919.5	312.5	105.4	78.1	75.3	77.2	79.1	79.1	80.9	80.9
42.5°	960.0	304.9	81.9	42.4	42.4	40.5	41.4	43.3	44.2	45.2	44.2
45°	285.2	63.1	26.4	23.5	23.5	22.6	22.6	23.5	24.5	25.4	25.4
47.5°	45.2	17.9	15.1	13.2	13.2	13.2	13.2	13.2	14.1	14.1	15.1
50°	14.1	11.3	9.4	8.5	8.5	7.5	7.5	8.5	8.5	8.5	9.4
52.5°	8.5	6.6	6.6	5.6	6.6	6.6	5.6	6.6	6.6	6.6	7.5
55°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6	6.6	6.6
57.5°	4.7	4.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
60°	4.7	4.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6.6
62.5°	4.7	4.7	5.6	5.6	5.6	5.6	5.6	5.6	6.6	6.6	6.6
65°	4.7	4.7	5.6	5.6	5.6	5.6	5.6	6.6	6.6	6.6	6.6
67.5°	4.7	5.6	5.6	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6
70°	4.7	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
72.5°	4.7	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
75°	5.6	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.5
77.5°	5.6	5.6	6.6	6.6	6.6	6.6	6.6	6.6	7.5	7.5	7.5
80°	5.6	5.6	6.6	6.6	6.6	6.6	6.6	7.5	7.5	7.5	7.5
82.5°	5.6	5.6	6.6	6.6	6.6	6.6	6.6	7.5	7.5	7.5	7.5
85°	5.6	5.6	6.6	6.6	6.6	6.6	6.6	7.5	7.5	7.5	7.5
87.5°	5.6	5.6	6.6	6.6	6.6	6.6	6.6	7.5	7.5	7.5	7.5
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°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1233.9	1190.6	1169.9	1140.7	1120.0	1073.9	1055.0	1023.0	996.7	953.4	956.2
5°	1126.6	1044.7	989.2	945.9	915.7	842.3	793.4	741.6	694.6	636.2	614.6
7.5°	977.9	877.2	792.5	740.7	702.1	604.2	496.0	411.3	347.3	301.2	283.3
10°	829.2	698.3	563.8	483.8	428.2	334.1	286.1	263.5	242.8	217.4	200.5
12.5°	656.0	469.6	347.3	315.3	292.7	261.6	230.6	206.1	210.8	211.8	218.3
15°	448.0	337.9	299.3	277.6	253.2	235.3	245.6	252.2	264.5	265.4	273.9
17.5°	364.2	317.2	286.1	285.2	287.1	297.4	313.4	321.9	337.9	341.6	353.9
20°	364.2	336.9	363.3	363.3	368.0	382.1	402.8	415.1	432.9	439.5	454.6
22.5°	415.1	433.9	466.8	470.6	472.5	487.5	513.9	526.1	546.8	550.6	566.6
25°	506.3	523.3	553.4	556.2	557.2	568.5	588.2	594.8	608.9	601.4	610.8
27.5°	535.5	543.0	561.9	563.8	559.0	563.8	571.3	571.3	576.0	560.9	563.8
30°	*470.6*	*472.5*	*481.9*	*482.8*	*472.5*	*474.3*	*475.3*	*474.3*	*473.4*	*457.4*	*457.4*
32.5°	349.2	349.2	361.4	358.6	347.3	350.1	350.1	350.1	349.2	336.0	334.1
35°	231.5	232.5	242.8	240.9	232.5	234.3	234.3	237.2	234.3	226.8	224.9
37.5°	141.2	142.1	146.8	147.8	144.9	145.9	146.8	145.9	147.8	144.0	142.1
40°	81.9	83.8	87.5	88.5	87.5	87.5	88.5	89.4	93.2	88.5	86.6
42.5°	48.0	48.9	50.8	50.8	50.8	50.8	51.8	52.7	53.6	52.7	51.8
45°	27.3	28.2	29.2	29.2	30.1	29.2	30.1	30.1	31.1	30.1	30.1
47.5°	16.0	16.0	16.9	16.9	17.9	16.9	17.9	17.9	17.9	16.9	16.9
50°	9.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	9.4	9.4
52.5°	7.5	7.5	7.5	7.5	7.5	6.6	6.6	6.6	6.6	5.6	5.6
55°	6.6	6.6	6.6	6.6	6.6	6.6	5.6	4.7	4.7	3.8	3.8
57.5°	5.6	6.6	6.6	6.6	6.6	5.6	5.6	4.7	3.8	2.8	2.8
60°	6.6	6.6	6.6	6.6	5.6	5.6	5.6	4.7	3.8	2.8	2.8
62.5°	6.6	6.6	6.6	6.6	6.6	5.6	5.6	4.7	3.8	2.8	2.8
65°	6.6	6.6	6.6	6.6	6.6	5.6	5.6	4.7	3.8	2.8	2.8
67.5°	6.6	6.6	6.6	6.6	6.6	5.6	5.6	4.7	3.8	3.8	2.8
70°	6.6	7.5	7.5	6.6	6.6	6.6	5.6	4.7	4.7	3.8	2.8
72.5°	6.6	7.5	7.5	6.6	6.6	6.6	5.6	4.7	4.7	3.8	2.8
75°	7.5	7.5	7.5	7.5	6.6	6.6	5.6	5.6	4.7	3.8	2.8
77.5°	7.5	7.5	7.5	7.5	6.6	6.6	5.6	5.6	4.7	3.8	2.8
80°	7.5	7.5	7.5	7.5	7.5	6.6	6.6	5.6	4.7	3.8	3.8
82.5°	7.5	7.5	7.5	7.5	7.5	6.6	6.6	5.6	4.7	3.8	3.8
85°	7.5	7.5	7.5	7.5	7.5	6.6	6.6	5.6	4.7	3.8	2.8
87.5°	7.5	7.5	7.5	7.5	6.6	6.6	5.6	5.6	4.7	3.8	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

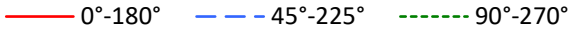
Scaled Data Report

TEST NUMBER: P179860
CATALOG NUMBER: LDA6A55827D010TE LARH20SP 6LA1LI 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	921.4	899.7	890.3	905.4	897.9	875.3	880.0	865.9
5°	549.6	516.7	496.0	505.4	475.3	448.0	448.0	428.2
7.5°	265.4	255.1	249.4	251.3	244.7	236.2	231.5	231.5
10°	186.3	182.6	183.5	183.5	189.2	188.2	191.1	190.1
12.5°	221.2	223.1	224.0	227.8	232.5	232.5	235.3	233.4
15°	283.3	281.4	287.1	288.0	295.5	296.5	300.2	296.5
17.5°	360.5	364.2	369.9	368.9	384.0	384.9	384.9	384.0
20°	464.0	466.8	472.5	474.3	492.2	494.1	500.7	501.6
22.5°	576.9	576.9	579.8	583.5	600.5	601.4	604.2	604.2
25°	615.5	609.9	610.8	615.5	624.9	621.2	624.0	622.1
27.5°	565.6	557.2	555.3	561.9	568.5	558.1	561.9	561.9
30°	*459.3*	*451.8*	*449.9*	*456.5*	*461.2*	*449.9*	*453.6*	*455.5*
32.5°	336.0	331.3	330.3	335.1	338.8	329.4	333.2	336.0
35°	226.8	224.9	223.1	224.0	229.6	222.1	225.9	227.8
37.5°	144.0	140.2	141.2	143.1	146.8	142.1	145.9	145.9
40°	88.5	86.6	86.6	88.5	90.4	86.6	88.5	89.4
42.5°	51.8	51.8	51.8	52.7	53.6	51.8	51.8	52.7
45°	30.1	29.2	29.2	30.1	31.1	29.2	30.1	30.1
47.5°	16.9	16.0	16.0	16.9	16.9	16.0	16.9	16.9
50°	9.4	8.5	8.5	9.4	9.4	8.5	8.5	8.5
52.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.8	3.8
55°	2.8	2.8	1.9	1.9	1.9	1.9	1.9	0.9
57.5°	1.9	1.9	0.9	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	0.9	0.9	0.9	0.0	0.0	0.0
70°	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0
72.5°	2.8	1.9	1.9	1.9	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	0.0
87.5°	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Report Generated By E9808895 / USPTCWHP6082093


0°-180°
45°-225°
90°-270°

(END OF REPORT)