

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: P1192363

Luminaire Tested: **LDA6A50930D010TE LARH30NF 6LAL1LI 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1192363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26674)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A50930D010TE LARH30NF 6LAL1LI 30°
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 30° Narrow Flood, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

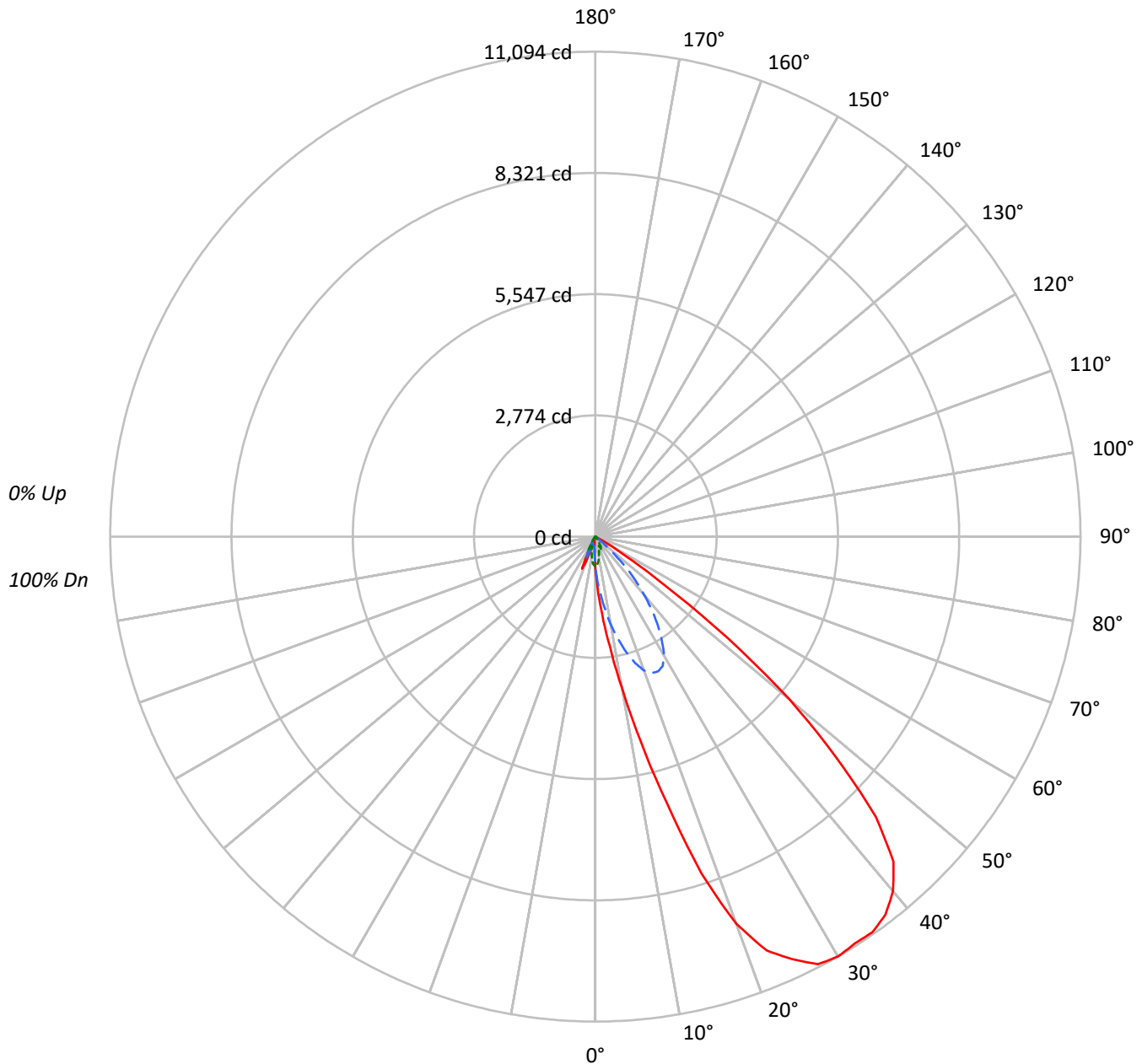
Lumens per Lamp: N/A
Luminaire Lumens: 4322.4 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 2.68 / 0.47 / 1.42
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91		
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81		
3	98	89	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72		
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57		
6	78	67	59	54	77	66	59	54	65	58	53	63	57	53	61	57	53	51		
7	73	61	54	48	71	60	53	48	59	53	48	58	52	47	56	51	47	45		
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	39	48	42	38	37		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37333	37333	37333
5°	98393	34058	10984
10°	196467	26107	4359
15°	357681	18326	4767
20°	549985	13155	30091
25°	645013	19646	24897
30°	702279	12331	7261
35°	739145	5113	2998
40°	757913	2261	1703
45°	703569	1481	1256
50°	493493	1143	571
55°	180486	822	373
60°	38122	833	208
65°	3230	986	246
70°	1074	1218	449
75°	191	1610	826
80°	284	2399	1231
85°	0	4780	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	2.0
10°-20°	471.2	10.9
20°-30°	1138.8	26.3
30°-40°	1338.7	31.0
40°-50°	1011.3	23.4
50°-60°	253.7	5.9
60°-70°	12.3	0.3
70°-80°	5.9	0.1
80°-90°	4.8	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°	1695.7	39.2
0°-40°	3034.4	70.2
0°-60°	4299.4	99.5
0°-90°	4322.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4322.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	681	681	681	681	681	
5°	1788	1298	619	263	200	223
15°	6302	2734	323	87	84	1907
25°	10664	3401	325	451	412	4905
35°	11045	2506	76	54	45	6877
45°	9075	985	19	20	16	6687
55°	1888	28	9	8	4	2089
65°	25	7	8	7	2	67
75°	1	5	8	7	4	2
85°	0	5	8	6	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1192363

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	1188.3	1169.1	1155.8	1132.9	1121.4	1126.2	1102.2	1069.8	1060.2	1031.6	981.9
5°	1788.0	1768.0	1736.5	1687.8	1651.5	1645.8	1599.0	1520.7	1471.0	1397.4	1298.1
7.5°	2524.6	2507.3	2454.8	2382.2	2321.0	2298.1	2229.4	2091.8	1981.9	1834.9	1663.9
10°	3529.4	3462.5	3364.1	3217.0	3076.7	3011.6	2890.4	2663.1	2484.4	2282.9	2050.7
12.5°	4789.2	4670.8	4511.3	4290.6	4049.0	3927.7	3734.8	3387.0	3074.7	2728.9	2390.7
15°	6302.3	6182.8	5951.7	5609.8	5220.9	5026.1	4741.5	4193.2	3728.1	3220.8	2733.7
17.5°	8087.5	7892.7	7585.0	7089.3	6487.5	6181.9	5778.8	5019.4	4326.0	3664.0	3033.6
20°	9427.5	9285.3	8994.0	8475.3	7757.9	7364.4	6822.8	5776.9	4881.8	4018.5	3260.9
22.5°	10250.0	10122.0	9854.5	9420.9	8761.8	8325.3	7715.0	6441.7	5313.7	4263.9	3374.7
25°	10663.6	10571.9	10385.7	10007.4	9431.4	8993.0	8375.9	6933.6	5605.9	4396.6	3401.4
27.5°	11027.6	10873.7	10571.0	10313.0	9803.0	9356.9	8772.4	7178.1	5708.1	4381.4	3333.6
30°	11094.3	11006.4	10767.7	10399.0	9924.3	9473.4	8857.4	7142.8	5592.5	4203.7	3149.2
32.5°	11037.1	10960.7	10780.1	10378.0	9846.9	9349.3	8673.0	6852.4	5253.4	3874.2	2837.8
35°	11044.7	10923.3	10607.2	10263.3	9600.4	9015.9	8222.1	6321.3	4778.8	3446.3	2506.4
37.5°	10898.6	10698.9	10438.1	9994.9	9100.0	8375.0	7467.6	5636.6	4207.5	3009.8	2119.5
40°	10590.9	10439.2	10092.3	9411.3	8247.0	7335.7	6497.1	4850.4	3583.8	2533.1	1727.9
42.5°	10088.6	9907.1	9422.8	8396.0	7011.9	6217.2	5462.6	4046.2	2970.6	2071.7	1356.3
45°	9075.1	8798.1	8164.9	6940.3	5759.7	5085.4	4470.2	3299.2	2408.0	1620.9	984.8
47.5°	7456.0	7220.1	6550.6	5528.6	4599.2	4077.6	3553.2	2601.9	1791.9	1042.1	506.2
50°	5786.4	5600.2	5089.1	4192.3	3416.7	2910.5	2497.8	1661.0	955.2	479.5	227.3
52.5°	3807.3	3689.8	3251.4	2617.2	1962.0	1600.8	1300.0	721.1	445.1	213.0	78.3
55°	1888.4	1737.5	1528.3	1132.9	819.5	662.9	562.6	355.3	184.4	61.2	27.7
57.5°	769.8	736.4	662.9	512.0	393.5	332.4	265.5	110.8	41.1	24.9	17.1
60°	347.7	332.4	288.5	202.5	109.9	67.8	47.8	30.5	21.0	15.3	11.5
62.5°	61.2	56.3	49.6	38.3	30.5	26.8	22.9	17.1	13.4	10.6	8.6
65°	24.9	24.9	22.9	20.1	16.2	15.3	13.4	10.6	8.6	7.6	6.7
67.5°	13.4	12.4	12.4	10.6	9.5	8.6	7.6	6.7	6.7	5.8	5.8
70°	6.7	6.7	6.7	5.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.8	2.8	2.8	3.9	3.9
75°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9	4.8
77.5°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9	4.8
80°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.9	3.9	4.8
82.5°	0.0	0.0	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.9	4.8
85°	0.0	0.0	0.9	0.9	1.9	1.9	1.9	2.8	2.8	3.9	4.8
87.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	2.8	2.8	3.9	4.8
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°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	980.1	930.3	892.1	855.9	847.2	817.6	789.9	742.1	699.2	659.0	613.3
5°	1259.9	1162.5	1081.2	1002.0	976.2	926.5	859.6	773.7	693.4	618.9	540.6
7.5°	1564.6	1399.3	1255.1	1121.4	1074.5	1003.9	895.9	773.7	658.1	551.2	455.6
10°	1863.5	1617.1	1399.3	1206.3	1135.7	1044.0	895.9	740.3	593.2	469.0	374.4
12.5°	2152.0	1813.9	1519.7	1264.7	1172.0	1057.4	872.1	682.0	511.0	388.7	309.5
15°	2377.5	1980.1	1604.7	1287.6	1172.0	1039.2	816.7	600.8	427.9	322.9	252.1
17.5°	2546.5	2078.4	1633.3	1265.6	1131.9	982.9	732.6	505.3	352.5	267.5	199.6
20°	2644.9	2103.3	1603.8	1201.7	1055.5	897.9	628.5	416.4	298.9	225.5	161.4
22.5°	2667.9	2068.9	1535.0	1119.5	968.6	809.0	536.9	372.5	288.5	230.2	201.5
25°	2642.0	1999.2	1444.3	1036.4	886.4	728.8	503.4	401.2	345.8	324.8	347.7
27.5°	2539.8	1869.3	1332.5	943.7	792.8	645.7	477.6	404.0	347.7	338.1	327.6
30°	2357.4	1673.5	1160.6	771.8	612.2	490.0	339.1	240.7	192.0	194.8	193.0
32.5°	2071.7	1388.9	908.3	539.7	421.2	331.5	224.4	142.4	133.7	133.7	131.8
35°	1757.5	1128.1	683.0	379.2	293.2	233.1	133.7	104.1	87.9	76.4	68.8
37.5°	1437.6	877.8	470.9	256.0	186.3	119.4	64.0	52.6	46.8	43.9	43.0
40°	1112.8	618.0	300.8	140.4	82.2	52.6	41.1	35.3	32.5	31.6	31.6
42.5°	823.4	398.4	162.3	55.4	43.9	36.3	29.6	25.8	24.9	24.9	23.8
45°	495.8	199.6	61.2	34.4	28.6	25.8	21.9	20.1	19.1	19.1	20.1
47.5°	229.2	74.5	33.5	22.9	21.0	19.1	17.1	16.2	16.2	16.2	17.1
50°	83.1	32.5	21.0	16.2	15.3	14.3	13.4	12.4	12.4	13.4	13.4
52.5°	31.6	20.1	15.3	12.4	11.5	11.5	10.6	10.6	10.6	10.6	10.6
55°	19.1	14.3	11.5	9.5	9.5	8.6	8.6	8.6	8.6	8.6	8.6
57.5°	12.4	10.6	8.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
60°	9.5	7.6	6.7	6.7	6.7	6.7	6.7	7.6	7.6	7.6	7.6
62.5°	7.6	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.6	7.6	7.6
65°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.6	7.6	7.6	8.6
67.5°	5.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6
70°	4.8	4.8	5.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6
72.5°	4.8	5.8	5.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6
75°	4.8	5.8	5.8	5.8	6.7	6.7	6.7	6.7	7.6	7.6	7.6
77.5°	4.8	5.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6	8.6
80°	4.8	5.8	5.8	6.7	6.7	6.7	6.7	7.6	7.6	7.6	8.6
82.5°	4.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6	8.6	8.6
85°	4.8	5.8	5.8	6.7	6.7	6.7	7.6	7.6	7.6	7.6	8.6
87.5°	4.8	5.8	5.8	6.7	6.7	6.7	6.7	7.6	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°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	588.4	549.2	521.5	496.7	487.1	465.1	441.3	413.6	390.6	388.7	369.6
5°	488.1	433.7	394.5	369.6	357.3	334.3	306.6	288.5	262.7	255.0	235.9
7.5°	394.5	343.9	307.5	284.6	270.3	242.6	211.2	191.1	170.1	153.8	132.7
10°	320.9	272.2	233.1	210.1	195.8	166.2	133.7	110.8	91.7	87.9	85.9
12.5°	257.9	208.2	169.0	144.3	129.0	101.3	92.6	88.9	85.9	83.1	83.1
15°	200.6	150.0	108.0	98.4	95.5	92.6	90.7	88.9	87.0	85.9	87.0
17.5°	146.1	106.0	101.3	100.2	98.4	98.4	100.2	101.3	103.2	105.0	108.0
20°	129.0	129.9	140.4	148.0	145.2	159.5	179.6	195.8	235.0	258.8	291.3
22.5°	231.1	265.5	314.2	343.9	360.1	407.9	460.4	539.7	579.8	637.1	688.7
25°	395.4	435.6	477.6	489.1	497.7	502.5	495.8	459.4	450.8	434.6	429.8
27.5°	296.1	277.0	283.7	286.5	283.7	279.8	268.4	248.4	243.5	235.9	237.8
30°	174.8	169.0	176.8	175.7	175.7	175.7	171.9	155.6	148.0	139.4	133.7
32.5°	129.0	118.4	109.9	102.2	99.3	94.6	91.7	85.0	82.2	78.3	78.3
35°	64.0	61.2	61.2	59.3	58.2	59.3	59.3	56.3	54.5	53.5	53.5
37.5°	42.0	42.0	43.0	42.0	42.0	42.0	42.0	41.1	40.1	39.2	39.2
40°	31.6	31.6	32.5	32.5	31.6	31.6	31.6	30.5	30.5	30.5	30.5
42.5°	24.9	24.9	24.9	24.9	23.8	24.9	24.9	24.9	23.8	23.8	22.9
45°	21.0	20.1	20.1	20.1	20.1	20.1	21.0	20.1	20.1	19.1	19.1
47.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	16.2	16.2
50°	13.4	13.4	13.4	13.4	13.4	12.4	12.4	11.5	11.5	10.6	10.6
52.5°	10.6	10.6	9.5	9.5	9.5	9.5	9.5	9.5	8.6	8.6	8.6
55°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	7.6	6.7	6.7
57.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.7	6.7	5.8
60°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.7	5.8	5.8	5.8
62.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.7	5.8	5.8	4.8
65°	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8	5.8
67.5°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
70°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
72.5°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
75°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
77.5°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
80°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
82.5°	8.6	8.6	8.6	8.6	8.6	7.6	7.6	7.6	6.7	6.7	5.8
85°	8.6	8.6	7.6	7.6	7.6	7.6	7.6	6.7	5.8	5.8	4.8
87.5°	7.6	7.6	7.6	7.6	7.6	6.7	6.7	5.8	4.8	4.8	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

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1192363

CATALOG NUMBER: LDA6A50930D010TE LARH30NF 6LAL1LI 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	681.0	681.0	681.0	681.0	681.0	681.0	681.0	681.0
2.5°	365.8	352.5	349.7	353.4	338.1	338.1	338.1	344.8
5°	228.3	214.9	211.2	212.1	199.6	191.1	195.8	199.6
7.5°	124.2	109.9	105.0	105.0	92.6	87.9	88.9	90.7
10°	83.1	81.2	81.2	80.3	78.3	77.3	78.3	78.3
12.5°	80.3	79.2	79.2	78.3	78.3	77.3	77.3	78.3
15°	84.0	84.0	84.0	83.1	83.1	82.2	84.0	84.0
17.5°	106.9	108.9	112.7	114.7	118.4	114.7	121.4	120.3
20°	314.2	345.8	404.0	426.1	489.1	458.5	524.4	515.8
22.5°	711.6	734.5	744.1	748.8	749.8	780.4	785.1	795.7
25°	420.3	414.6	409.7	409.7	392.6	412.7	408.8	411.6
27.5°	224.4	222.5	217.7	219.7	211.2	217.7	219.7	219.7
30°	127.0	123.2	119.4	119.4	111.7	115.6	114.7	114.7
32.5°	73.6	71.6	69.7	68.8	66.9	66.9	66.0	66.0
35°	50.6	49.6	48.7	47.8	45.9	44.8	44.8	44.8
37.5°	37.2	36.3	35.3	35.3	34.4	32.5	32.5	32.5
40°	28.6	27.7	26.8	26.8	25.8	23.8	23.8	23.8
42.5°	21.9	21.0	20.1	19.1	19.1	18.2	17.1	17.1
45°	18.2	18.2	17.1	17.1	16.2	16.2	16.2	16.2
47.5°	15.3	15.3	14.3	14.3	14.3	13.4	13.4	12.4
50°	9.5	8.6	8.6	7.6	7.6	6.7	6.7	6.7
52.5°	7.6	6.7	6.7	5.8	5.8	4.8	4.8	4.8
55°	5.8	5.8	4.8	4.8	4.8	3.9	3.9	3.9
57.5°	4.8	4.8	3.9	3.9	3.9	2.8	2.8	2.8
60°	4.8	3.9	3.9	2.8	2.8	2.8	1.9	1.9
62.5°	4.8	3.9	3.9	2.8	2.8	1.9	1.9	1.9
65°	4.8	3.9	3.9	2.8	2.8	2.8	2.8	1.9
67.5°	4.8	4.8	3.9	3.9	3.9	2.8	2.8	2.8
70°	5.8	4.8	4.8	3.9	3.9	3.9	3.9	2.8
72.5°	5.8	4.8	4.8	4.8	3.9	3.9	3.9	3.9
75°	5.8	4.8	4.8	4.8	3.9	3.9	3.9	3.9
77.5°	5.8	4.8	4.8	4.8	3.9	3.9	3.9	3.9
80°	5.8	4.8	4.8	4.8	3.9	3.9	3.9	3.9
82.5°	4.8	4.8	4.8	3.9	3.9	3.9	3.9	3.9
85°	3.9	3.9	3.9	2.8	2.8	2.8	2.8	1.9
87.5°	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9
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)