

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: P1192153

Luminaire Tested: **LDA6A35935D010TE LARL20NF 6LAL1 30° Tilt**

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: P1192153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26268)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA6A35935D010TE LARL20NF 6LAL1 30° Tilt
Description: PORTFOLIO 6" Lensed Adjustable, Self-flange Trim Ring, 20° Narrow Flood Optic, at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

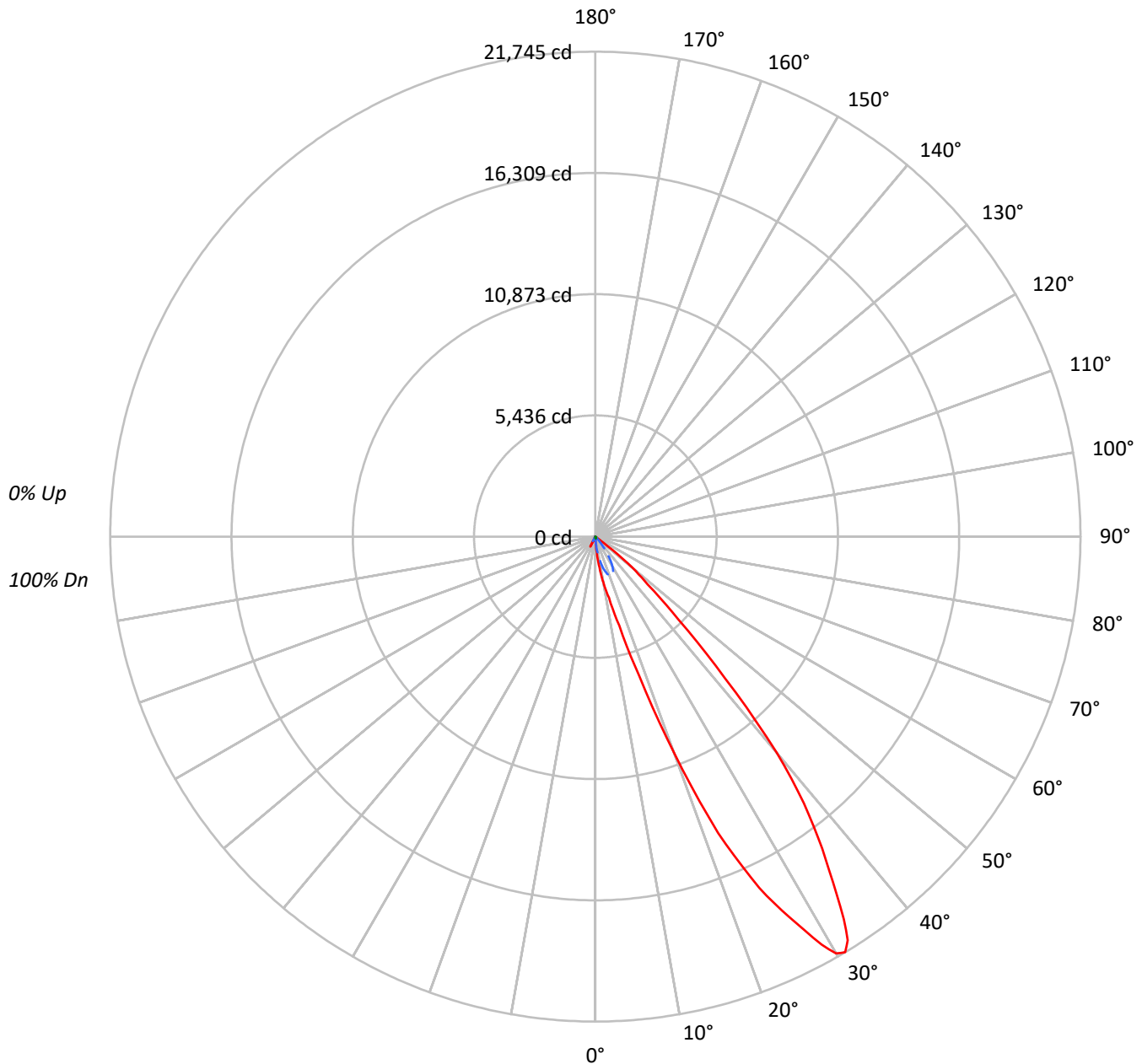
Lumens per Lamp: N/A
Luminaire Lumens: 3312.4 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 2.7 / 0.43 / 1.35
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74		
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43		
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	39		
10	60	49	41	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4112	4112	4112
5°	39852	3621	1491
10°	117845	2583	935
15°	233912	1765	812
20°	603412	1423	1138
25°	1051639	1718	8111
30°	1366027	1798	4577
35°	1223996	776	428
40°	904903	279	0
45°	407507	302	0
50°	183849	333	0
55°	16401	373	0
60°	1974	428	0
65°	830	675	0
70°	625	833	0
75°	0	1101	0
80°	0	1642	379
85°	0	3271	755

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.9
10°-20°	278.9	8.4
20°-30°	1101.4	33.3
30°-40°	1329.1	40.1
40°-50°	515.8	15.6
50°-60°	45.3	1.4
60°-70°	4.3	0.1
70°-80°	4.1	0.1
80°-90°	3.8	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°	1410.1	42.6
0°-40°	2739.2	82.7
0°-60°	3300.3	99.6
0°-90°	3312.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	724	354	66	32	27	115
15°	4122	1559	31	20	14	1511
25°	17386	1844	28	90	134	7951
35°	18290	938	12	12	6	11242
45°	5256	66	4	2	0	4618
55°	172	8	4	2	0	414
65°	6	5	5	4	0	7
75°	0	5	5	5	0	1
85°	0	5	5	5	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
2.5°	235.0	223.4	210.3	215.5	218.2	224.6	219.5	200.0	211.6	202.7	194.8
5°	724.2	711.2	686.8	690.7	682.8	691.9	671.2	630.0	637.7	624.9	591.1
7.5°	1412.2	1358.0	1318.0	1320.5	1297.3	1307.7	1269.0	1197.9	1190.0	1124.2	1114.1
10°	2117.0	2089.9	2042.0	2035.6	1994.4	1999.6	1938.7	1844.5	1818.9	1742.7	1698.8
12.5°	2808.9	2763.5	2696.5	2682.4	2615.1	2616.6	2534.0	2427.9	2389.2	2310.6	2249.9
15°	4121.5	4057.2	3903.5	3845.3	3659.4	3631.1	3427.1	3186.9	3070.8	2935.4	2757.1
17.5°	6544.5	6503.1	6202.5	6035.8	5659.0	5284.7	5064.0	4544.9	4241.6	3862.1	3532.9
20°	10343.3	10419.5	9894.2	9522.4	8822.8	8032.7	7475.2	6530.2	5898.9	5244.5	4625.1
22.5°	14383.6	14416.0	13877.6	13414.3	12599.8	11514.1	10229.8	9083.4	7926.9	6802.7	5780.3
25°	17386.1	17293.2	16700.6	16144.3	15287.2	14178.5	12930.2	11399.2	9818.0	8274.1	6776.8
26°	18302.5	18252.2	17658.4	16992.3	16048.9	14923.2	13624.6	12079.5	10409.1	8746.6	7081.4
27°	19152.0	19119.7	18475.6	17734.6	16677.4	15499.0	14139.8	12595.9	10855.9	9112.0	7302.3
28°	20012.8	19976.8	19197.1	18337.5	17188.6	15908.1	14495.8	12940.6	11143.7	9326.3	7393.8
29°	20923.0	20853.2	19856.7	18780.1	17529.4	16147.0	14681.8	13097.9	11241.8	9379.1	7370.6
30°	21579.9	21471.7	20333.1	19060.2	17668.7	16221.7	14702.5	13094.2	11181.2	9269.4	7222.2
31°	21745.1	21635.4	20466.1	19056.5	17566.9	16108.3	14554.0	12910.8	10928.2	9003.5	6971.6
32°	21345.2	21244.3	20129.2	18621.3	17244.1	15834.6	14258.4	12571.5	10535.6	8606.0	6632.3
33°	20451.8	20375.6	19414.1	18049.5	16782.0	15446.0	13835.0	12088.6	9978.1	8100.0	6233.3
34°	19324.8	19269.4	18529.8	17377.0	16195.8	14912.8	13286.6	11452.2	9243.7	7526.7	5798.3
35°	18289.6	18248.5	17649.5	16627.1	15526.1	14253.2	12591.9	10668.8	8487.2	6909.7	5333.8
36°	17293.2	17258.4	16738.1	15788.0	14725.7	13480.1	11718.0	9731.5	7675.1	6269.6	4852.2
37°	16252.8	16221.7	15775.2	14871.7	13826.1	12555.9	10680.3	8733.8	6850.3	5630.7	4357.8
38°	15173.7	15147.8	14738.7	13837.7	12776.6	11426.3	9496.7	7702.3	6046.2	5007.0	3913.9
39°	13969.4	13947.4	13570.4	12625.5	11492.1	10095.4	8278.1	6696.9	5283.5	4401.6	3483.8
40°	12644.9	12615.1	12238.3	11182.4	10037.5	8725.9	7107.2	5773.9	4563.2	3836.2	3105.8
42.5°	8596.9	8564.6	8284.5	7670.0	6567.7	5724.9	4710.1	3864.8	3233.5	2795.8	2419.1
45°	5256.3	5260.0	5113.1	4733.6	4070.0	3601.5	3050.3	2646.2	2362.1	2194.4	1932.3
47.5°	3179.3	3179.3	3113.5	2919.9	2621.8	2434.6	2206.0	2017.6	1800.6	1635.4	1351.6
50°	2155.7	2156.9	2056.3	2066.7	1867.9	1751.5	1533.5	1303.7	1090.7	850.7	606.6
51°	1595.4	1603.1	1510.4	1552.8	1334.8	1236.7	1030.0	835.2	646.8	460.9	265.8
52°	975.8	990.1	926.7	965.6	839.1	695.6	528.0	389.9	262.1	183.2	127.7
53°	453.0	464.6	432.5	450.5	375.6	293.0	221.9	180.8	144.5	117.4	86.6
54°	240.2	242.6	232.3	227.1	206.6	182.0	150.9	125.3	98.1	78.7	58.2
55°	171.6	171.6	166.4	161.3	144.5	124.0	100.6	85.1	64.6	51.5	37.5
57.5°	53.0	53.0	53.0	50.3	43.9	37.5	29.6	25.9	20.7	19.5	15.5
60°	18.0	18.0	18.0	16.8	15.5	14.3	12.8	11.6	10.4	10.4	9.1
61°	12.8	12.8	12.8	12.8	11.6	11.6	10.4	9.1	7.6	9.1	7.6
62°	10.4	11.6	10.4	10.4	10.4	9.1	7.6	7.6	6.4	7.6	6.4
63°	9.1	9.1	9.1	9.1	7.6	7.6	6.4	6.4	5.2	6.4	6.4
64°	7.6	7.6	7.6	7.6	6.4	6.4	5.2	5.2	3.9	5.2	5.2
65°	6.4	6.4	6.4	6.4	5.2	5.2	5.2	3.9	3.9	5.2	5.2
66°	5.2	5.2	5.2	5.2	5.2	3.9	3.9	3.9	2.5	3.9	3.9

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



TEST NUMBER: P1192153

CATALOG NUMBER: LDA6A35935D010TE LARL20NF 6LAL1 30° Tilt

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	2.5	2.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	67.5°	90°	112.5°
0°	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
2.5°	187.2	174.3	171.6	171.6	144.5	149.7	140.8	134.1	94.2	72.3	54.2
5°	571.8	525.5	506.0	489.2	415.8	409.1	364.0	353.6	126.5	65.8	41.4
7.5°	1066.3	995.2	950.1	906.2	787.4	755.1	677.6	658.4	171.6	55.5	32.3
10°	1629.0	1527.1	1448.2	1343.7	1190.0	1123.0	1009.5	968.1	209.1	46.4	31.1
12.5°	2158.2	2042.0	1935.0	1796.9	1589.0	1481.8	1332.1	1279.3	223.4	38.7	28.4
15°	2615.1	2460.2	2327.3	2178.9	1946.6	1811.0	1627.7	1559.2	211.6	31.1	24.4
17.5°	3194.8	2932.7	2701.6	2493.8	2240.8	2075.6	1862.7	1751.5	171.6	27.1	21.9
20°	4052.0	3524.0	3117.4	2781.8	2430.6	2225.5	1989.2	1854.9	124.0	24.4	21.9
22.5°	4858.6	4104.8	3481.4	3001.3	2528.8	2283.4	2038.3	1889.9	87.8	24.4	25.9
25°	5517.0	4542.5	3733.1	3145.8	2583.0	2295.0	2020.1	1844.5	68.3	28.4	50.3
26°	5701.7	4651.0	3782.2	3157.4	2575.1	2278.3	1989.2	1803.3	60.7	38.7	94.2
27°	5816.3	4699.8	3783.4	3139.3	2546.8	2244.7	1942.6	1747.8	53.0	59.4	158.8
28°	5839.8	4676.6	3739.6	3089.0	2497.7	2199.6	1891.1	1680.8	49.1	75.0	180.8
29°	5776.4	4594.0	3659.4	3015.3	2438.3	2145.3	1829.2	1607.0	42.7	56.7	117.4
30°	5634.4	4457.1	3542.0	2921.1	2375.2	2084.7	1753.0	1519.2	34.8	28.4	53.0
31°	5421.5	4268.7	3397.5	2810.1	2304.1	2007.2	1661.3	1421.1	29.6	19.5	31.1
32°	5151.8	4042.9	3236.0	2696.5	2224.0	1913.1	1554.3	1311.4	27.1	15.5	25.9
33°	4841.8	3805.4	3069.6	2581.6	2128.6	1800.6	1439.4	1194.0	24.4	16.8	25.9
34°	4503.7	3562.7	2881.2	2461.7	2017.6	1678.1	1316.5	1055.9	21.9	15.5	19.5
35°	4137.1	3311.0	2712.0	2355.7	1892.3	1545.1	1191.5	938.5	19.5	11.6	12.8
36°	3820.9	3065.6	2548.0	2221.5	1755.5	1408.3	1062.3	812.0	16.8	7.6	9.1
37°	3476.2	2836.0	2395.9	2082.2	1608.3	1267.5	933.3	686.8	15.5	5.2	7.6
38°	3154.9	2624.2	2243.5	1921.9	1457.4	1125.7	801.7	564.2	14.3	5.2	6.4
39°	2863.2	2431.9	2101.4	1751.5	1298.5	977.2	668.8	442.6	12.8	3.9	6.4
40°	2612.6	2260.3	1931.1	1572.3	1134.6	830.0	535.6	328.0	11.6	3.9	6.4
42.5°	2124.6	1813.7	1457.4	1111.4	734.6	469.8	240.2	120.1	9.1	3.9	5.2
45°	1623.8	1290.9	961.7	668.8	378.3	182.0	89.0	65.8	7.6	3.9	5.2
47.5°	1054.7	774.5	516.4	291.7	126.5	73.5	46.4	33.5	6.4	3.9	5.2
50°	389.9	215.5	113.7	71.0	49.1	31.1	20.7	19.5	6.4	3.9	5.2
51°	160.0	104.6	71.0	47.8	31.1	21.9	16.8	16.8	6.4	3.9	5.2
52°	95.4	65.8	47.8	34.8	23.2	16.8	12.8	14.3	6.4	3.9	5.2
53°	63.1	45.1	34.8	27.1	18.0	12.8	9.1	10.4	6.4	3.9	5.2
54°	42.7	32.3	25.9	20.7	12.8	10.4	5.2	9.1	5.2	3.9	5.2
55°	29.6	23.2	19.5	15.5	9.1	6.4	3.9	7.6	5.2	3.9	5.2
57.5°	12.8	11.6	10.4	9.1	3.9	2.5	1.2	6.4	5.2	3.9	5.2
60°	9.1	7.6	6.4	6.4	1.2	1.2	0.0	5.2	5.2	3.9	5.2
61°	7.6	6.4	6.4	5.2	1.2	1.2	0.0	5.2	6.4	3.9	5.2
62°	6.4	6.4	5.2	5.2	1.2	0.0	0.0	5.2	6.4	3.9	6.4
63°	5.2	5.2	5.2	5.2	1.2	0.0	0.0	5.2	6.4	3.9	6.4
64°	5.2	5.2	5.2	5.2	0.0	0.0	0.0	5.2	6.4	3.9	6.4
65°	5.2	3.9	3.9	3.9	0.0	0.0	0.0	5.2	6.4	5.2	6.4
66°	3.9	3.9	3.9	3.9	0.0	0.0	0.0	5.2	6.4	5.2	6.4



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	67.5°	90°	112.5°
72.5°	2.5	2.5	2.5	2.5	0.0	0.0	0.0	3.9	6.4	5.2	7.6
75°	1.2	2.5	2.5	2.5	0.0	0.0	0.0	5.2	6.4	5.2	7.6
77.5°	1.2	2.5	2.5	2.5	0.0	0.0	0.0	5.2	6.4	5.2	7.6
80°	1.2	2.5	2.5	2.5	0.0	0.0	0.0	5.2	6.4	5.2	7.6
82.5°	1.2	2.5	2.5	2.5	0.0	0.0	0.0	5.2	6.4	5.2	7.6
85°	1.2	2.5	2.5	2.5	0.0	0.0	0.0	5.2	6.4	5.2	7.6
87.5°	1.2	2.5	2.5	2.5	0.0	0.0	0.0	5.2	6.4	5.2	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):

	135°	157.5°	180°
0°	75.0	75.0	75.0
2.5°	45.1	41.4	38.7
5°	32.3	29.6	27.1
7.5°	27.1	23.2	21.9
10°	24.4	18.0	16.8
12.5°	20.7	15.5	14.3
15°	19.5	15.5	14.3
17.5°	19.5	15.5	14.3
20°	20.7	19.5	19.5
22.5°	29.6	32.3	33.5
25°	90.3	116.1	134.1
26°	211.6	317.6	425.9
27°	321.3	468.5	499.6
28°	289.3	335.6	326.5
29°	139.3	157.6	143.3
30°	61.9	73.5	72.3
31°	39.9	45.1	43.9
32°	33.5	31.1	29.6
33°	27.1	21.9	18.0
34°	18.0	14.3	11.6
35°	11.6	7.6	6.4
36°	7.6	3.9	2.5
37°	5.2	2.5	1.2
38°	5.2	1.2	0.0
39°	3.9	1.2	0.0
40°	3.9	1.2	0.0
42.5°	3.9	0.0	0.0
45°	2.5	0.0	0.0
47.5°	2.5	0.0	0.0
50°	3.9	1.2	0.0
51°	3.9	0.0	0.0
52°	3.9	0.0	0.0
53°	2.5	0.0	0.0
54°	2.5	0.0	0.0
55°	2.5	0.0	0.0
57.5°	2.5	0.0	0.0
60°	2.5	0.0	0.0
61°	3.9	0.0	0.0
62°	3.9	0.0	0.0
63°	3.9	0.0	0.0
64°	3.9	1.2	0.0
65°	3.9	1.2	0.0
66°	3.9	1.2	0.0

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

Scaled Data Report



TEST NUMBER: P1192153

CATALOG NUMBER: LDA6A35935D010TE LARL20NF 6LAL1 30° Tilt

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
72.5°	5.2	1.2	0.0
75°	5.2	1.2	0.0
77.5°	5.2	1.2	0.0
80°	5.2	2.5	1.2
82.5°	5.2	2.5	1.2
85°	5.2	2.5	1.2
87.5°	5.2	2.5	1.2
90°	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.5	2.5	2.5	3.9	3.9
70°	3.9	3.9	2.5	2.5	2.5	2.5	2.5	1.2	1.2	3.9	3.9

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67.5°	3.9	3.9	3.9	3.9	0.0	0.0	0.0	5.2	6.4	5.2	6.4
70°	3.9	3.9	3.9	3.9	0.0	0.0	0.0	5.2	6.4	5.2	7.6

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67.5°	5.2	1.2	0.0
70°	5.2	1.2	0.0

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(END OF REPORT)