

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: P1219557

Luminaire Tested: **LDSQA4A30950D010TE LAR15SP 4LSQA1H 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: P1219557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26799)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30950D010TE LAR15SP 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

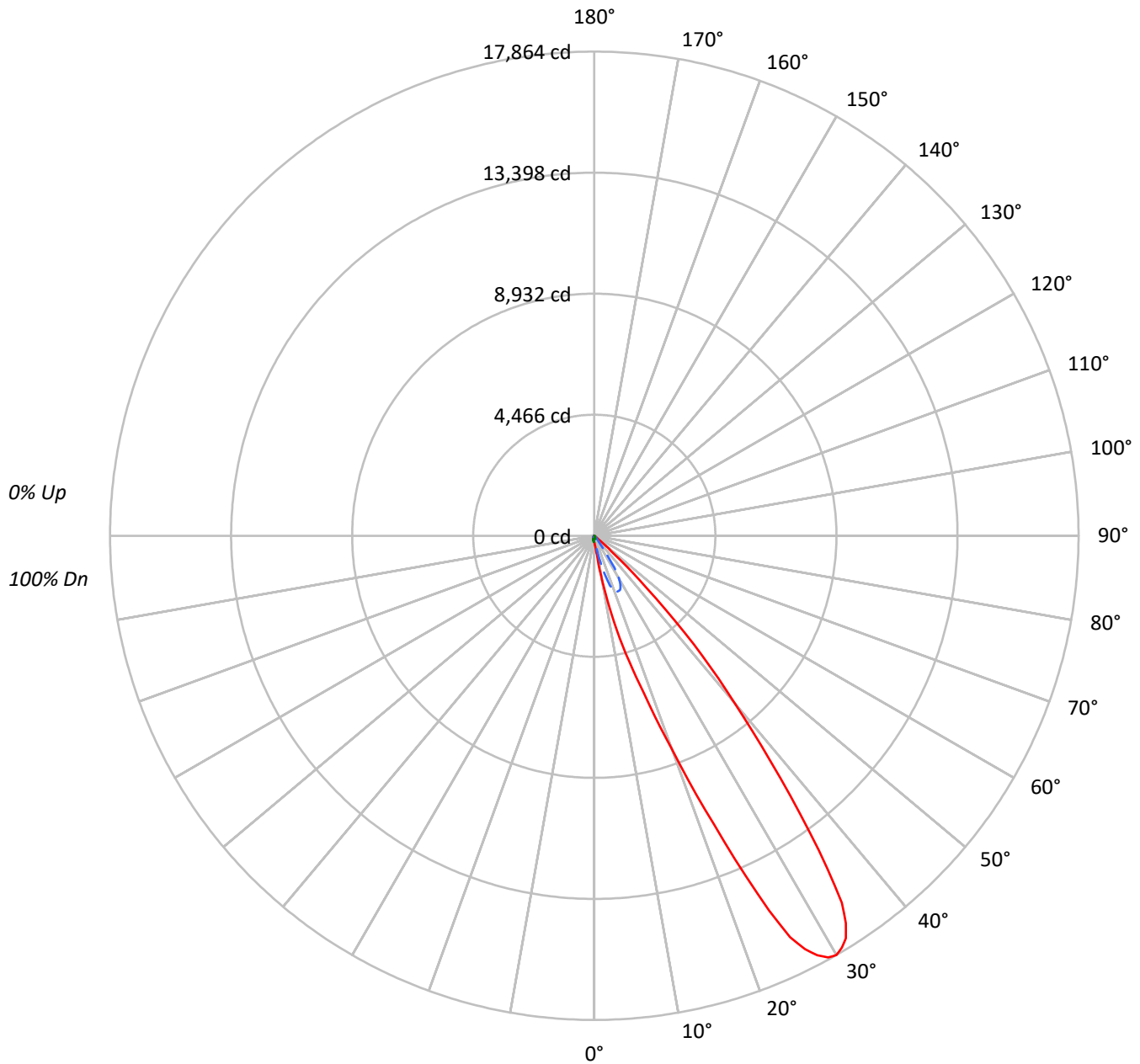
Lumens per Lamp: N/A
Luminaire Lumens: 2747.1 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22940	22940	22940
5°	38208	21647	18477
10°	162930	18966	16044
15°	450997	15074	14232
20°	865040	10680	12711
25°	1631006	7130	11213
30°	1998282	4754	9833
35°	1774691	3181	8373
40°	1011442	2162	6993
45°	368948	1754	5823
50°	40617	1266	4928
55°	5996	946	4070
60°	1376	1085	3313
65°	986	1284	2269
70°	793	1586	2011
75°	1048	2096	1609
80°	0	3124	1562
85°	0	4780	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	1.1
10°-20°	297.7	10.8
20°-30°	977.7	35.6
30°-40°	1072.2	39.0
40°-50°	334.9	12.2
50°-60°	18.3	0.7
60°-70°	7.4	0.3
70°-80°	5.6	0.2
80°-90°	3.5	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°	1305.2	47.5
0°-40°	2377.4	86.5
0°-60°	2730.6	99.4
0°-90°	2747.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	237	237	237	237	237	
5°	393	315	223	197	190	73
15°	4497	1445	150	135	142	1413
25°	15259	2219	67	82	105	6802
35°	15006	437	27	47	71	8773
45°	2693	45	13	27	42	2472
55°	36	8	6	16	24	56
65°	4	4	6	11	10	4
75°	3	4	6	8	4	2
85°	0	4	4	4	2	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°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	292.1	294.9	296.4	289.3	290.8	287.9	290.8	285.0	275.1	277.9	269.5
5°	392.9	387.1	385.7	374.4	371.6	365.9	365.9	353.2	334.7	331.9	314.8
7.5°	694.9	665.1	639.5	601.2	564.4	536.0	524.7	479.3	429.6	411.2	371.6
10°	1656.3	1650.7	1586.8	1466.3	1327.4	1226.7	1168.5	992.7	770.0	633.9	492.0
12.5°	3014.9	2986.6	2895.8	2674.6	2434.8	2284.6	2166.8	1812.3	1481.9	1216.7	872.1
15°	4496.8	4381.9	4248.6	3905.4	3569.3	3373.7	3206.3	2780.9	2269.0	1887.5	1445.0
17.5°	6079.4	6130.4	5807.2	5215.8	4618.7	4312.4	4028.9	3375.0	2815.0	2417.9	1920.2
20°	8390.9	8283.1	7714.5	6734.5	5854.0	5342.0	4939.3	3996.2	3151.1	2656.1	2185.2
22.5°	11515.0	11171.8	10062.7	8405.1	7008.1	6297.8	5726.2	4455.7	3433.2	2778.0	2227.8
25°	15258.7	14941.1	12887.7	10011.8	7945.6	7025.2	6248.2	4747.8	3546.6	2797.9	2219.4
26°	16481.1	16008.9	13930.0	10583.2	8233.5	7209.6	6377.2	4804.5	3549.4	2782.3	2182.4
27°	17113.6	16743.4	14792.1	11047.0	8430.6	7325.9	6449.5	4818.6	3521.1	2746.7	2125.7
28°	17530.4	17184.4	15338.1	11350.5	8531.2	7371.2	6470.8	4787.5	3457.3	2684.6	2036.4
29°	17788.7	17424.1	15604.8	11488.0	8538.4	7351.4	6431.0	4705.3	3370.8	2609.3	1932.8
30°	17863.8	17469.6	15611.9	11431.3	8433.5	7245.1	6319.0	4572.0	3265.9	2514.3	1818.0
31°	17730.4	17323.5	15355.2	11173.2	8217.9	7038.0	6143.3	4396.1	3135.4	2413.6	1640.7
32°	17509.2	16969.0	14817.7	10745.0	7922.8	6788.4	5923.3	4204.6	2996.4	2286.0	1391.2
33°	17038.4	16386.0	13995.2	10207.4	7568.4	6502.1	5666.6	3991.9	2864.6	2066.2	1033.9
34°	16330.8	15506.9	12986.9	9582.1	7167.1	6144.6	5371.7	3794.9	2727.1	1775.5	707.6
35°	15006.3	14239.1	11873.8	8915.5	6734.5	5798.5	5047.0	3536.7	2539.9	1423.8	436.8
36°	13524.5	12960.0	10794.6	8237.6	6292.1	5439.7	4712.3	3346.7	2263.4	1047.9	296.4
37°	12009.8	11509.4	9776.4	7571.2	5848.2	5042.8	4372.0	3131.2	1934.3	699.1	238.3
38°	10567.6	10170.6	8809.2	6916.0	5387.3	4627.3	4014.6	2901.5	1579.7	449.5	195.6
39°	9243.2	8945.4	7862.0	6282.1	4925.0	4220.2	3671.4	2612.2	1205.4	320.5	163.1
40°	7998.0	7788.1	6948.8	5656.9	4465.7	3820.3	3360.9	2261.9	836.6	253.9	131.9
42.5°	5439.7	5387.3	4889.6	4071.4	3316.9	2939.8	2657.5	1272.0	321.9	153.1	73.7
45°	2693.0	2729.9	2531.3	2328.6	2171.1	2056.3	1674.8	530.4	178.7	83.7	45.3
47.5°	953.0	954.4	821.1	731.6	699.1	696.3	506.3	187.2	95.0	51.0	32.7
50°	269.5	290.8	273.7	279.3	218.4	185.8	151.7	90.7	48.2	32.7	21.3
51°	166.0	178.7	167.3	173.0	150.3	134.7	113.4	68.0	38.3	26.9	19.9
52°	106.4	113.4	107.7	109.2	100.7	87.9	76.6	49.6	31.1	22.7	17.1
53°	72.3	76.6	72.3	72.3	66.7	62.4	54.0	36.9	25.5	18.4	12.8
54°	49.6	51.0	51.0	51.0	46.8	44.0	38.3	28.3	21.3	17.1	11.4
55°	35.5	36.9	35.5	35.5	34.1	31.1	28.3	21.3	17.1	14.2	8.4
57.5°	15.6	15.6	15.6	17.1	15.6	15.6	14.2	12.8	11.4	8.4	5.6
60°	7.1	7.1	7.1	7.1	8.4	8.4	8.4	8.4	7.1	5.6	5.6
61°	5.6	5.6	5.6	5.6	5.6	7.1	7.1	7.1	5.6	5.6	4.3
62°	4.3	4.3	4.3	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3
63°	4.3	4.3	4.3	4.3	4.3	4.3	5.6	5.6	4.3	4.3	4.3
64°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	4.3	2.8	2.8	2.8	2.8	4.3	4.3	4.3	4.3	4.3	4.3
66°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3
77.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	4.3
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	4.3
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	4.3
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	4.3
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.8	2.8	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°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	263.7	262.3	255.2	248.2	249.6	246.8	243.9	239.6	236.8	229.7	229.7
5°	300.7	293.6	277.9	263.7	262.3	256.7	248.2	239.6	232.5	222.6	219.8
7.5°	343.2	323.3	297.8	275.1	270.9	262.3	246.8	235.4	222.6	209.9	205.6
10°	404.1	357.3	313.5	279.3	270.9	258.0	238.3	222.6	208.5	192.8	187.2
12.5°	621.1	441.1	333.3	279.3	263.7	248.2	224.1	205.6	188.7	171.6	166.0
15°	1035.2	704.8	422.6	279.3	251.1	232.5	202.8	184.4	166.0	150.3	144.7
17.5°	1429.4	1002.6	588.5	314.8	252.4	214.1	177.2	157.4	141.9	126.3	122.0
20°	1657.8	1168.5	697.7	350.4	249.6	192.8	151.7	130.4	114.8	103.6	99.3
22.5°	1687.6	1175.5	673.6	313.5	209.9	160.3	126.3	106.4	93.5	83.7	80.8
25°	1608.2	1038.0	538.8	222.6	156.0	130.4	99.3	85.1	75.2	66.7	65.2
26°	1547.1	955.8	469.4	184.4	137.5	116.3	89.3	76.6	68.0	60.9	59.6
27°	1460.7	867.9	401.3	153.1	122.0	104.9	79.5	69.5	62.4	55.3	55.3
28°	1362.7	772.8	323.3	129.1	109.2	93.5	72.3	62.4	55.3	51.0	51.0
29°	1245.1	635.3	236.8	112.0	96.5	82.3	63.9	55.3	49.6	46.8	46.8
30°	1070.6	460.9	163.1	97.9	83.7	72.3	56.8	49.6	45.3	42.5	42.5
31°	836.6	283.6	127.6	85.1	73.7	63.9	51.0	44.0	41.2	38.3	39.7
32°	570.1	177.2	109.2	73.7	65.2	55.3	45.3	39.7	36.9	35.5	35.5
33°	324.7	147.5	95.0	63.9	55.3	48.2	39.7	35.5	34.1	32.7	32.7
34°	215.5	126.3	82.3	54.0	45.3	41.2	34.1	31.1	29.7	29.7	29.7
35°	181.6	109.2	66.7	45.3	39.7	35.5	29.7	28.3	26.9	26.9	28.3
36°	153.1	90.7	54.0	38.3	34.1	31.1	26.9	25.5	24.1	24.1	25.5
37°	129.1	72.3	45.3	32.7	28.3	26.9	24.1	22.7	22.7	22.7	24.1
38°	104.9	58.1	38.3	28.3	25.5	22.7	21.3	19.9	19.9	21.3	22.7
39°	82.3	46.8	31.1	24.1	21.3	19.9	18.4	18.4	18.4	18.4	19.9
40°	65.2	39.7	26.9	21.3	18.4	18.4	17.1	15.6	17.1	17.1	19.9
42.5°	41.2	28.3	19.9	15.6	14.2	14.2	12.8	12.8	12.8	14.2	15.6
45°	29.7	22.7	15.6	12.8	11.4	9.9	9.9	9.9	11.4	12.8	14.2
47.5°	22.7	15.6	11.4	8.4	7.1	7.1	7.1	7.1	8.4	9.9	11.4
50°	15.6	9.9	7.1	5.6	5.6	5.6	5.6	5.6	7.1	8.4	9.9
51°	12.8	8.4	7.1	5.6	5.6	4.3	4.3	5.6	7.1	7.1	8.4
52°	9.9	7.1	5.6	4.3	4.3	4.3	4.3	5.6	5.6	7.1	8.4
53°	8.4	7.1	5.6	4.3	4.3	4.3	4.3	4.3	5.6	7.1	8.4
54°	7.1	5.6	4.3	4.3	4.3	4.3	4.3	4.3	5.6	7.1	8.4
55°	5.6	5.6	4.3	4.3	4.3	4.3	4.3	4.3	5.6	5.6	7.1
57.5°	5.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.6	7.1
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.6	7.1
61°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.6	7.1
62°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.6	7.1
63°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.6	5.6	7.1
64°	4.3	4.3	4.3	4.3	5.6	5.6	4.3	4.3	5.6	5.6	7.1
65°	4.3	4.3	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6	7.1
66°	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6	7.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	5.6	5.6	5.6
75°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
77.5°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6
80°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	5.6	5.6
82.5°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	5.6
85°	4.3	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	4.3
87.5°	4.3	4.3	5.6	5.6	5.6	5.6	4.3	4.3	4.3	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	226.9	222.6	219.8	218.4	219.8	216.9	212.7	214.1	212.7	211.3	211.3
5°	215.5	208.5	205.6	204.3	204.3	202.8	197.1	198.5	197.1	195.6	195.6
7.5°	199.9	194.3	190.0	188.7	188.7	187.2	181.6	184.4	181.6	180.0	181.6
10°	181.6	175.8	174.4	171.6	171.6	170.1	166.0	167.3	166.0	166.0	166.0
12.5°	161.7	156.0	154.5	153.1	154.5	153.1	148.9	151.7	150.3	150.3	151.7
15°	140.4	136.1	136.1	134.7	136.1	134.7	133.2	134.7	134.7	134.7	137.5
17.5°	119.2	116.3	116.3	114.8	116.3	116.3	114.8	119.2	119.2	122.0	124.8
20°	97.9	95.0	96.5	96.5	99.3	99.3	99.3	103.6	104.9	107.7	112.0
22.5°	80.8	79.5	80.8	80.8	83.7	85.1	85.1	89.3	93.5	96.5	100.7
25°	65.2	65.2	68.0	68.0	69.5	72.3	73.7	79.5	82.3	85.1	89.3
26°	60.9	60.9	62.4	63.9	65.2	68.0	69.5	75.2	78.0	80.8	85.1
27°	55.3	55.3	58.1	59.6	60.9	63.9	66.7	70.8	73.7	78.0	80.8
28°	51.0	51.0	54.0	55.3	56.8	60.9	62.4	66.7	69.5	73.7	78.0
29°	46.8	48.2	51.0	51.0	54.0	56.8	58.1	63.9	66.7	69.5	73.7
30°	44.0	45.3	46.8	48.2	49.6	52.4	55.3	59.6	62.4	65.2	69.5
31°	41.2	42.5	44.0	45.3	46.8	49.6	52.4	56.8	59.6	62.4	66.7
32°	38.3	38.3	41.2	42.5	44.0	46.8	49.6	54.0	56.8	59.6	63.9
33°	35.5	36.9	38.3	39.7	41.2	44.0	46.8	49.6	52.4	56.8	60.9
34°	32.7	34.1	36.9	38.3	39.7	42.5	44.0	46.8	49.6	54.0	56.8
35°	29.7	32.7	34.1	35.5	36.9	39.7	41.2	45.3	46.8	51.0	54.0
36°	28.3	29.7	32.7	34.1	35.5	36.9	38.3	42.5	45.3	48.2	51.0
37°	25.5	28.3	29.7	31.1	32.7	35.5	36.9	39.7	42.5	45.3	48.2
38°	24.1	25.5	28.3	29.7	31.1	32.7	34.1	38.3	39.7	42.5	45.3
39°	22.7	24.1	26.9	28.3	28.3	31.1	32.7	35.5	36.9	39.7	44.0
40°	21.3	22.7	25.5	25.5	26.9	29.7	31.1	34.1	35.5	38.3	41.2
42.5°	18.4	19.9	21.3	22.7	24.1	25.5	26.9	29.7	31.1	32.7	35.5
45°	15.6	17.1	19.9	19.9	21.3	22.7	24.1	25.5	26.9	29.7	31.1
47.5°	12.8	15.6	17.1	18.4	18.4	19.9	21.3	22.7	24.1	25.5	26.9
50°	11.4	12.8	14.2	15.6	15.6	17.1	18.4	19.9	19.9	21.3	24.1
51°	11.4	12.8	14.2	14.2	15.6	17.1	17.1	18.4	19.9	19.9	21.3
52°	9.9	11.4	12.8	14.2	14.2	15.6	17.1	17.1	18.4	19.9	21.3
53°	9.9	11.4	12.8	12.8	14.2	15.6	15.6	17.1	17.1	18.4	19.9
54°	9.9	11.4	12.8	12.8	14.2	14.2	15.6	15.6	17.1	17.1	18.4
55°	8.4	9.9	11.4	12.8	12.8	14.2	14.2	15.6	15.6	17.1	17.1
57.5°	8.4	9.9	11.4	11.4	11.4	12.8	12.8	14.2	14.2	14.2	15.6
60°	8.4	9.9	9.9	11.4	11.4	12.8	12.8	12.8	12.8	14.2	14.2
61°	8.4	8.4	9.9	11.4	11.4	11.4	12.8	12.8	12.8	12.8	14.2
62°	8.4	8.4	9.9	9.9	11.4	11.4	11.4	12.8	12.8	12.8	12.8
63°	7.1	8.4	9.9	9.9	11.4	11.4	11.4	11.4	11.4	12.8	12.8
64°	7.1	8.4	9.9	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4
65°	7.1	8.4	9.9	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4
66°	7.1	8.4	9.9	9.9	9.9	11.4	11.4	11.4	11.4	11.4	11.4

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219557

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	7.1	7.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
75°	7.1	7.1	7.1	8.4	8.4	8.4	8.4	8.4	8.4	7.1	7.1
77.5°	5.6	5.6	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	5.6
80°	5.6	5.6	7.1	7.1	7.1	7.1	7.1	7.1	5.6	5.6	5.6
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.3	4.3	2.8
87.5°	4.3	5.6	5.6	5.6	5.6	5.6	4.3	4.3	4.3	2.8	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



TEST NUMBER: P1219557

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8
2.5°	212.7	208.5	207.1	207.1	208.5	207.1	208.5	207.1
5°	195.6	191.5	191.5	190.0	191.5	190.0	191.5	190.0
7.5°	181.6	177.2	177.2	177.2	177.2	177.2	178.7	177.2
10°	167.3	163.1	163.1	161.7	163.1	163.1	164.5	163.1
12.5°	153.1	150.3	150.3	148.9	151.7	150.3	153.1	151.7
15°	140.4	137.5	137.5	139.0	140.4	140.4	141.9	141.9
17.5°	127.6	127.6	127.6	129.1	130.4	131.9	133.2	131.9
20°	116.3	116.3	117.7	119.2	120.5	122.0	123.3	123.3
22.5°	104.9	104.9	106.4	109.2	112.0	113.4	114.8	114.8
25°	93.5	95.0	96.5	97.9	102.1	103.6	104.9	104.9
26°	89.3	90.7	93.5	95.0	97.9	99.3	102.1	102.1
27°	86.5	87.9	89.3	90.7	95.0	96.5	99.3	97.9
28°	82.3	83.7	85.1	87.9	90.7	93.5	95.0	95.0
29°	78.0	80.8	82.3	83.7	87.9	89.3	90.7	90.7
30°	75.2	76.6	78.0	80.8	83.7	86.5	87.9	87.9
31°	70.8	73.7	75.2	76.6	80.8	82.3	85.1	85.1
32°	68.0	69.5	70.8	73.7	76.6	79.5	80.8	80.8
33°	63.9	66.7	68.0	69.5	73.7	76.6	78.0	76.6
34°	60.9	63.9	63.9	66.7	69.5	72.3	73.7	73.7
35°	58.1	59.6	60.9	63.9	66.7	69.5	70.8	70.8
36°	55.3	56.8	58.1	60.9	63.9	66.7	68.0	68.0
37°	52.4	54.0	55.3	56.8	60.9	63.9	65.2	65.2
38°	49.6	51.0	52.4	55.3	58.1	59.6	62.4	62.4
39°	46.8	48.2	49.6	52.4	55.3	56.8	59.6	58.1
40°	44.0	46.8	46.8	49.6	52.4	54.0	56.8	55.3
42.5°	38.3	39.7	41.2	42.5	45.3	48.2	49.6	49.6
45°	34.1	35.5	36.9	38.3	39.7	41.2	44.0	42.5
47.5°	28.3	29.7	31.1	32.7	34.1	35.5	36.9	36.9
50°	25.5	25.5	26.9	26.9	29.7	31.1	32.7	32.7
51°	22.7	24.1	25.5	25.5	28.3	28.3	29.7	29.7
52°	22.7	22.7	24.1	24.1	25.5	26.9	28.3	28.3
53°	21.3	21.3	22.7	22.7	24.1	25.5	26.9	26.9
54°	19.9	19.9	21.3	21.3	22.7	24.1	25.5	25.5
55°	18.4	18.4	19.9	19.9	21.3	22.7	24.1	24.1
57.5°	15.6	17.1	17.1	18.4	18.4	19.9	19.9	21.3
60°	14.2	15.6	15.6	15.6	17.1	17.1	17.1	17.1
61°	14.2	14.2	14.2	15.6	15.6	14.2	15.6	14.2
62°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
63°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
64°	12.8	11.4	11.4	11.4	11.4	11.4	11.4	11.4
65°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	9.9
66°	11.4	11.4	9.9	11.4	9.9	9.9	9.9	9.9

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219557

CATALOG NUMBER: LDSQA4A30950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	7.1	7.1	7.1	7.1	7.1	5.6	5.6	5.6
75°	7.1	7.1	7.1	5.6	5.6	5.6	5.6	4.3
77.5°	5.6	5.6	5.6	5.6	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	2.8	2.8
82.5°	4.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	2.8	2.8	2.8	2.8	2.8	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3

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67.5°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	5.6	5.6	7.1
70°	4.3	5.6	5.6	5.6	5.6	5.6	5.6	4.3	5.6	5.6	5.6

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67.5°	7.1	8.4	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
70°	7.1	8.4	8.4	8.4	9.9	9.9	9.9	9.9	9.9	9.9	9.9

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67.5°	9.9	9.9	9.9	9.9	9.9	8.4	8.4	8.4
70°	8.4	8.4	8.4	8.4	8.4	7.1	7.1	7.1

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(END OF REPORT)