

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: P1219529

Luminaire Tested: **LDSQA4A20950D010TE 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: P1219529
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: LDSQA4A20950D010TE 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

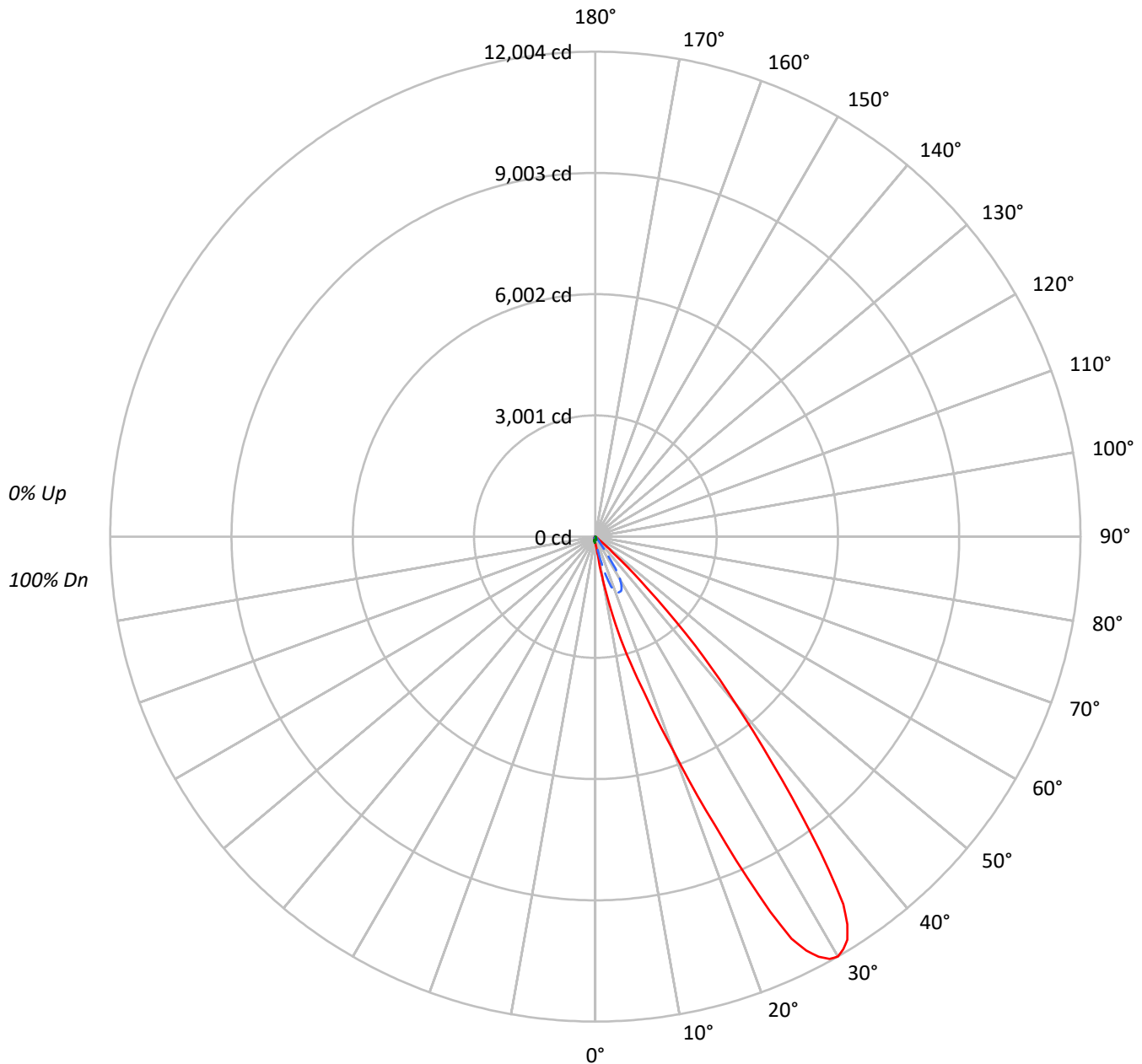
Lumens per Lamp: N/A
Luminaire Lumens: 1845.9 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	15413	15413	15413
5°	25673	14548	12418
10°	109486	12749	10781
15°	303045	10130	9558
20°	581267	7175	8546
25°	1095967	4778	7536
30°	1342748	3188	6611
35°	1192506	2141	5629
40°	679657	1442	4704
45°	247906	1165	3905
50°	27294	859	3301
55°	4020	642	2736
60°	930	736	2209
65°	642	871	1559
70°	538	1076	1360
75°	711	1422	1048
80°	0	2120	1060
85°	0	3112	1112

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	1.1
10°-20°	200.0	10.8
20°-30°	657.0	35.6
30°-40°	720.5	39.0
40°-50°	225.0	12.2
50°-60°	12.3	0.7
60°-70°	5.0	0.3
70°-80°	3.8	0.2
80°-90°	2.3	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°	877.0	47.5
0°-40°	1597.5	86.5
0°-60°	1834.9	99.4
0°-90°	1845.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1845.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	159	159	159	159	159	
5°	264	212	150	132	128	49
15°	3022	971	101	90	95	949
25°	10253	1491	45	55	70	4570
35°	10084	294	18	31	48	5895
45°	1810	31	8	18	28	1661
55°	24	6	4	10	16	37
65°	3	3	4	8	7	3
75°	2	3	4	6	3	1
85°	0	3	3	3	1	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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	196.4	198.2	199.1	194.4	195.3	193.3	195.3	191.6	184.9	186.8	181.1
5°	264.0	260.2	259.2	251.6	249.6	245.9	245.9	237.3	224.8	223.1	211.5
7.5°	467.0	447.0	429.7	404.0	379.2	360.2	352.6	322.1	288.7	276.4	249.6
10°	1113.0	1109.3	1066.2	985.3	891.9	824.3	785.2	667.1	517.4	425.9	330.6
12.5°	2025.8	2006.8	1945.8	1797.2	1636.1	1535.1	1456.1	1217.8	995.8	817.6	585.9
15°	3021.6	2944.4	2854.9	2624.3	2398.4	2267.0	2154.6	1868.7	1524.6	1268.3	970.9
17.5°	4085.1	4119.4	3902.1	3504.7	3103.6	2897.6	2707.1	2267.8	1891.4	1624.7	1290.2
20°	5638.3	5565.9	5183.8	4525.4	3933.5	3589.5	3318.8	2685.3	2117.3	1784.7	1468.4
22.5°	7737.5	7506.9	6761.8	5647.8	4709.2	4231.8	3847.8	2994.0	2306.9	1866.8	1497.0
25°	10253.2	10039.7	8660.0	6727.4	5339.2	4720.6	4198.5	3190.3	2383.2	1880.1	1491.3
26°	11074.5	10757.2	9360.2	7111.4	5532.5	4844.5	4285.2	3228.4	2385.1	1869.5	1466.6
27°	11499.6	11250.8	9939.7	7423.0	5665.0	4922.7	4333.7	3237.9	2366.0	1845.8	1428.3
28°	11779.7	11547.1	10306.6	7627.0	5732.6	4953.2	4348.0	3217.0	2323.2	1803.8	1368.3
29°	11953.1	11708.2	10485.7	7719.4	5737.3	4939.8	4321.4	3161.8	2264.9	1753.2	1298.8
30°	12003.6	11738.7	10490.5	7681.2	5666.9	4868.3	4246.1	3072.2	2194.6	1689.5	1221.6
31°	11914.0	11640.6	10317.9	7507.8	5522.0	4729.2	4127.9	2953.9	2106.8	1621.9	1102.5
32°	11765.4	11402.4	9956.8	7220.1	5323.9	4561.5	3980.3	2825.4	2013.5	1536.1	934.9
33°	11449.0	11010.7	9404.1	6859.0	5085.6	4369.0	3807.9	2682.4	1924.8	1388.4	694.7
34°	10973.6	10419.9	8726.6	6438.7	4815.9	4128.9	3609.5	2550.0	1832.5	1193.0	475.5
35°	10083.5	9568.1	7978.7	5990.9	4525.4	3896.4	3391.4	2376.5	1706.6	956.7	293.5
36°	9087.7	8708.5	7253.5	5535.4	4228.0	3655.3	3166.5	2248.9	1520.8	704.2	199.1
37°	8070.1	7733.6	6569.3	5087.5	3929.7	3388.5	2937.7	2104.0	1299.8	469.8	160.1
38°	7101.0	6834.3	5919.4	4647.3	3620.0	3109.3	2697.6	1949.6	1061.4	302.1	131.6
39°	6211.0	6010.9	5282.9	4221.4	3309.4	2835.9	2467.1	1755.2	810.1	215.3	109.6
40°	5374.4	5233.3	4669.2	3801.1	3000.7	2567.0	2258.4	1519.9	562.2	170.6	88.6
42.5°	3655.3	3620.0	3285.6	2735.8	2228.8	1975.4	1785.7	854.8	216.3	102.9	49.5
45°	1809.5	1834.4	1700.9	1564.7	1458.8	1381.7	1125.4	356.4	120.0	56.3	30.6
47.5°	640.3	641.3	551.7	491.7	469.8	467.9	340.1	125.8	63.9	34.3	21.9
50°	181.1	195.3	183.9	187.8	146.7	124.8	102.0	60.9	32.4	21.9	14.4
51°	111.5	120.0	112.5	116.3	101.0	90.5	76.2	45.8	25.7	18.1	13.3
52°	71.4	76.2	72.5	73.3	67.7	59.1	51.5	33.3	21.0	15.2	11.4
53°	48.6	51.5	48.6	48.6	44.7	41.9	36.3	24.8	17.3	12.5	8.5
54°	33.3	34.3	34.3	34.3	31.4	29.5	25.7	19.0	14.4	11.4	7.6
55°	23.8	24.8	23.8	23.8	22.8	21.0	19.0	14.4	11.4	9.5	5.7
57.5°	10.5	10.5	10.5	11.4	10.5	10.5	9.5	8.5	7.6	5.7	3.8
60°	4.8	4.8	4.8	4.8	5.7	5.7	5.7	5.7	4.8	3.8	3.8
61°	3.8	3.8	3.8	3.8	3.8	4.8	4.8	4.8	3.8	3.8	2.8
62°	2.8	2.8	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8
63°	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	2.8	2.8	2.8
64°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.8	1.9	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8
66°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
77.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	2.8
80°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	2.8
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	2.8
85°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	2.8
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9	1.9	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	177.3	176.3	171.6	166.8	167.8	165.8	163.9	161.1	159.1	154.3	154.3
5°	202.0	197.3	186.8	177.3	176.3	172.5	166.8	161.1	156.2	149.6	147.8
7.5°	230.7	217.4	200.1	184.9	182.0	176.3	165.8	158.2	149.6	141.0	138.1
10°	271.5	240.1	210.6	187.8	182.0	173.4	160.1	149.6	140.1	129.6	125.8
12.5°	417.5	296.4	223.9	187.8	177.3	166.8	150.6	138.1	126.8	115.3	111.5
15°	695.6	473.6	283.9	187.8	168.7	156.2	136.2	123.8	111.5	101.0	97.2
17.5°	960.5	673.7	395.4	211.5	169.5	143.8	119.1	105.8	95.3	84.8	82.0
20°	1113.9	785.2	468.9	235.4	167.8	129.6	102.0	87.7	77.2	69.6	66.8
22.5°	1133.9	790.0	452.7	210.6	141.0	107.7	84.8	71.4	62.8	56.3	54.3
25°	1080.6	697.5	362.1	149.6	104.8	87.7	66.8	57.2	50.5	44.7	43.8
26°	1039.7	642.2	315.4	123.8	92.6	78.1	60.1	51.5	45.8	41.0	40.0
27°	981.4	583.2	269.7	102.9	82.0	70.5	53.4	46.8	41.9	37.2	37.2
28°	915.7	519.3	217.4	86.7	73.3	62.8	48.6	41.9	37.2	34.3	34.3
29°	836.7	426.9	159.1	75.3	64.8	55.2	42.8	37.2	33.3	31.4	31.4
30°	719.5	309.7	109.6	65.7	56.3	48.6	38.1	33.3	30.6	28.5	28.5
31°	562.2	190.6	85.8	57.2	49.5	42.8	34.3	29.5	27.7	25.7	26.7
32°	383.1	119.1	73.3	49.5	43.8	37.2	30.6	26.7	24.8	23.8	23.8
33°	218.2	99.1	63.9	42.8	37.2	32.4	26.7	23.8	22.8	21.9	21.9
34°	144.9	84.8	55.2	36.3	30.6	27.7	22.8	21.0	20.0	20.0	20.0
35°	122.0	73.3	44.7	30.6	26.7	23.8	20.0	19.0	18.1	18.1	19.0
36°	102.9	60.9	36.3	25.7	22.8	21.0	18.1	17.3	16.2	16.2	17.3
37°	86.7	48.6	30.6	21.9	19.0	18.1	16.2	15.2	15.2	15.2	16.2
38°	70.5	39.0	25.7	19.0	17.3	15.2	14.4	13.3	13.3	14.4	15.2
39°	55.2	31.4	21.0	16.2	14.4	13.3	12.5	12.5	12.5	12.5	13.3
40°	43.8	26.7	18.1	14.4	12.5	12.5	11.4	10.5	11.4	11.4	13.3
42.5°	27.7	19.0	13.3	10.5	9.5	9.5	8.5	8.5	8.5	9.5	10.5
45°	20.0	15.2	10.5	8.5	7.6	6.8	6.8	6.8	7.6	8.5	9.5
47.5°	15.2	10.5	7.6	5.7	4.8	4.8	4.8	4.8	5.7	6.8	7.6
50°	10.5	6.8	4.8	3.8	3.8	3.8	3.8	3.8	4.8	5.7	6.8
51°	8.5	5.7	4.8	3.8	3.8	2.8	2.8	3.8	4.8	4.8	5.7
52°	6.8	4.8	3.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8	5.7
53°	5.7	4.8	3.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8	5.7
54°	4.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8	5.7
55°	3.8	3.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
57.5°	3.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8
61°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8
62°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	4.8
63°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8	3.8	4.8
64°	2.8	2.8	2.8	2.8	3.8	3.8	2.8	2.8	3.8	3.8	4.8
65°	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8	4.8
66°	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8	4.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	3.8	3.8	3.8
75°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8
80°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	3.8	3.8
82.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	3.8
85°	2.8	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	152.5	149.6	147.8	146.7	147.8	145.8	143.0	143.8	143.0	142.1	142.1
5°	144.9	140.1	138.1	137.3	137.3	136.2	132.5	133.3	132.5	131.6	131.6
7.5°	134.4	130.5	127.7	126.8	126.8	125.8	122.0	123.8	122.0	121.1	122.0
10°	122.0	118.1	117.2	115.3	115.3	114.3	111.5	112.5	111.5	111.5	111.5
12.5°	108.6	104.8	103.8	102.9	103.8	102.9	100.0	102.0	101.0	101.0	102.0
15°	94.3	91.5	91.5	90.5	91.5	90.5	89.5	90.5	90.5	90.5	92.6
17.5°	80.1	78.1	78.1	77.2	78.1	78.1	77.2	80.1	80.1	82.0	83.8
20°	65.7	63.9	64.8	64.8	66.8	66.8	66.8	69.6	70.5	72.5	75.3
22.5°	54.3	53.4	54.3	54.3	56.3	57.2	57.2	60.1	62.8	64.8	67.7
25°	43.8	43.8	45.8	45.8	46.8	48.6	49.5	53.4	55.2	57.2	60.1
26°	41.0	41.0	41.9	42.8	43.8	45.8	46.8	50.5	52.4	54.3	57.2
27°	37.2	37.2	39.0	40.0	41.0	42.8	44.7	47.6	49.5	52.4	54.3
28°	34.3	34.3	36.3	37.2	38.1	41.0	41.9	44.7	46.8	49.5	52.4
29°	31.4	32.4	34.3	34.3	36.3	38.1	39.0	42.8	44.7	46.8	49.5
30°	29.5	30.6	31.4	32.4	33.3	35.3	37.2	40.0	41.9	43.8	46.8
31°	27.7	28.5	29.5	30.6	31.4	33.3	35.3	38.1	40.0	41.9	44.7
32°	25.7	25.7	27.7	28.5	29.5	31.4	33.3	36.3	38.1	40.0	42.8
33°	23.8	24.8	25.7	26.7	27.7	29.5	31.4	33.3	35.3	38.1	41.0
34°	21.9	22.8	24.8	25.7	26.7	28.5	29.5	31.4	33.3	36.3	38.1
35°	20.0	21.9	22.8	23.8	24.8	26.7	27.7	30.6	31.4	34.3	36.3
36°	19.0	20.0	21.9	22.8	23.8	24.8	25.7	28.5	30.6	32.4	34.3
37°	17.3	19.0	20.0	21.0	21.9	23.8	24.8	26.7	28.5	30.6	32.4
38°	16.2	17.3	19.0	20.0	21.0	21.9	22.8	25.7	26.7	28.5	30.6
39°	15.2	16.2	18.1	19.0	19.0	21.0	21.9	23.8	24.8	26.7	29.5
40°	14.4	15.2	17.3	17.3	18.1	20.0	21.0	22.8	23.8	25.7	27.7
42.5°	12.5	13.3	14.4	15.2	16.2	17.3	18.1	20.0	21.0	21.9	23.8
45°	10.5	11.4	13.3	13.3	14.4	15.2	16.2	17.3	18.1	20.0	21.0
47.5°	8.5	10.5	11.4	12.5	12.5	13.3	14.4	15.2	16.2	17.3	18.1
50°	7.6	8.5	9.5	10.5	10.5	11.4	12.5	13.3	13.3	14.4	16.2
51°	7.6	8.5	9.5	9.5	10.5	11.4	11.4	12.5	13.3	13.3	14.4
52°	6.8	7.6	8.5	9.5	9.5	10.5	11.4	11.4	12.5	13.3	14.4
53°	6.8	7.6	8.5	8.5	9.5	10.5	10.5	11.4	11.4	12.5	13.3
54°	6.8	7.6	8.5	8.5	9.5	9.5	10.5	10.5	11.4	11.4	12.5
55°	5.7	6.8	7.6	8.5	8.5	9.5	9.5	10.5	10.5	11.4	11.4
57.5°	5.7	6.8	7.6	7.6	7.6	8.5	8.5	9.5	9.5	9.5	10.5
60°	5.7	6.8	6.8	7.6	7.6	8.5	8.5	8.5	8.5	9.5	9.5
61°	5.7	5.7	6.8	7.6	7.6	7.6	8.5	8.5	8.5	8.5	9.5
62°	5.7	5.7	6.8	6.8	7.6	7.6	7.6	8.5	8.5	8.5	8.5
63°	4.8	5.7	6.8	6.8	7.6	7.6	7.6	7.6	7.6	8.5	8.5
64°	4.8	5.7	6.8	6.8	6.8	7.6	7.6	7.6	7.6	7.6	7.6
65°	4.8	5.7	6.8	6.8	6.8	7.6	7.6	7.6	7.6	7.6	7.6
66°	4.8	5.7	6.8	6.8	6.8	7.6	7.6	7.6	7.6	7.6	7.6



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CATALOG NUMBER: LDSQA4A20950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	4.8	4.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
75°	4.8	4.8	4.8	5.7	5.7	5.7	5.7	5.7	5.7	4.8	4.8
77.5°	3.8	3.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.8
80°	3.8	3.8	4.8	4.8	4.8	4.8	4.8	4.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	1.9
87.5°	2.8	3.8	3.8	3.8	3.8	3.8	2.8	2.8	2.8	1.9	1.9
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: P1219529

CATALOG NUMBER: LDSQA4A20950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	143.0	140.1	139.2	139.2	140.1	139.2	140.1	139.2
5°	131.6	128.6	128.6	127.7	128.6	127.7	128.6	127.7
7.5°	122.0	119.1	119.1	119.1	119.1	119.1	120.0	119.1
10°	112.5	109.6	109.6	108.6	109.6	109.6	110.6	109.6
12.5°	102.9	101.0	101.0	100.0	102.0	101.0	102.9	102.0
15°	94.3	92.6	92.6	93.4	94.3	94.3	95.3	95.3
17.5°	85.8	85.8	85.8	86.7	87.7	88.6	89.5	88.6
20°	78.1	78.1	79.0	80.1	81.0	82.0	82.9	82.9
22.5°	70.5	70.5	71.4	73.3	75.3	76.2	77.2	77.2
25°	62.8	63.9	64.8	65.7	68.5	69.6	70.5	70.5
26°	60.1	60.9	62.8	63.9	65.7	66.8	68.5	68.5
27°	58.0	59.1	60.1	60.9	63.9	64.8	66.8	65.7
28°	55.2	56.3	57.2	59.1	60.9	62.8	63.9	63.9
29°	52.4	54.3	55.2	56.3	59.1	60.1	60.9	60.9
30°	50.5	51.5	52.4	54.3	56.3	58.0	59.1	59.1
31°	47.6	49.5	50.5	51.5	54.3	55.2	57.2	57.2
32°	45.8	46.8	47.6	49.5	51.5	53.4	54.3	54.3
33°	42.8	44.7	45.8	46.8	49.5	51.5	52.4	51.5
34°	41.0	42.8	42.8	44.7	46.8	48.6	49.5	49.5
35°	39.0	40.0	41.0	42.8	44.7	46.8	47.6	47.6
36°	37.2	38.1	39.0	41.0	42.8	44.7	45.8	45.8
37°	35.3	36.3	37.2	38.1	41.0	42.8	43.8	43.8
38°	33.3	34.3	35.3	37.2	39.0	40.0	41.9	41.9
39°	31.4	32.4	33.3	35.3	37.2	38.1	40.0	39.0
40°	29.5	31.4	31.4	33.3	35.3	36.3	38.1	37.2
42.5°	25.7	26.7	27.7	28.5	30.6	32.4	33.3	33.3
45°	22.8	23.8	24.8	25.7	26.7	27.7	29.5	28.5
47.5°	19.0	20.0	21.0	21.9	22.8	23.8	24.8	24.8
50°	17.3	17.3	18.1	18.1	20.0	21.0	21.9	21.9
51°	15.2	16.2	17.3	17.3	19.0	19.0	20.0	20.0
52°	15.2	15.2	16.2	16.2	17.3	18.1	19.0	19.0
53°	14.4	14.4	15.2	15.2	16.2	17.3	18.1	18.1
54°	13.3	13.3	14.4	14.4	15.2	16.2	17.3	17.3
55°	12.5	12.5	13.3	13.3	14.4	15.2	16.2	16.2
57.5°	10.5	11.4	11.4	12.5	12.5	13.3	13.3	14.4
60°	9.5	10.5	10.5	10.5	11.4	11.4	11.4	11.4
61°	9.5	9.5	9.5	10.5	10.5	9.5	10.5	9.5
62°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
63°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
64°	8.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6
65°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.8
66°	7.6	7.6	6.8	7.6	6.8	6.8	6.8	6.8



TEST NUMBER: P1219529

CATALOG NUMBER: LDSQA4A20950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.8	4.8	4.8	4.8	4.8	3.8	3.8	3.8
75°	4.8	4.8	4.8	3.8	3.8	3.8	3.8	2.8
77.5°	3.8	3.8	3.8	3.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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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Peachtree City, GA 30269

Scaled Data Report



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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8

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67.5°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	3.8	3.8	4.8
70°	2.8	3.8	3.8	3.8	3.8	3.8	3.8	2.8	3.8	3.8	3.8

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67.5°	4.8	5.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	4.8	5.7	5.7	5.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8

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Scaled Data Report



67.5°	6.8	6.8	6.8	6.8	6.8	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	4.8	4.8	4.8

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)