

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: P1219479

Luminaire Tested: **LDSQA4A15930D010TE LAR25NF 4LSQAL1H 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: P1219479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26803)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15930D010TE LAR25NF 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

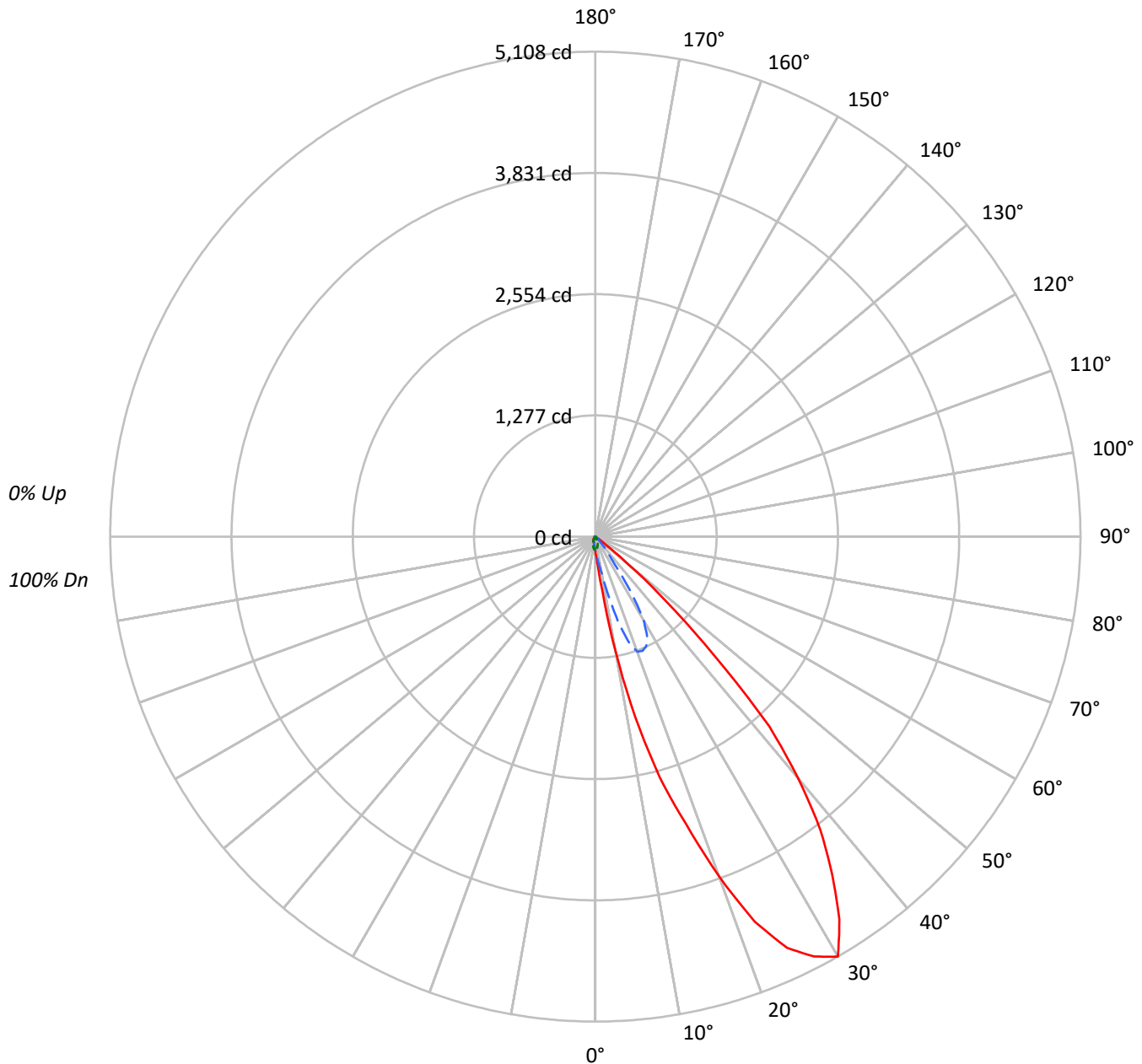
Lumens per Lamp: N/A
Luminaire Lumens: 1279.4 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 2.36 / 0.61 / 1.19
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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



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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	106	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	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	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	58	51	47	57	51	47	55	50	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	13824	13824	13824
5°	30924	12992	9306
10°	121261	11372	7329
15°	263249	9217	6379
20°	392711	6814	5763
25°	510796	4799	5013
30°	571425	3233	4385
35°	514243	1892	3725
40°	419676	1303	3250
45°	240960	877	2644
50°	70488	678	2231
55°	8141	540	1841
60°	1744	620	1492
65°	596	596	1032
70°	538	736	736
75°	487	973	711
80°	0	1450	725
85°	0	2890	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	1.6
10°-20°	175.2	13.7
20°-30°	417.8	32.7
30°-40°	440.9	34.5
40°-50°	200.0	15.6
50°-60°	17.5	1.4
60°-70°	3.7	0.3
70°-80°	2.4	0.2
80°-90°	1.5	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°	613.4	47.9
0°-40°	1054.4	82.4
0°-60°	1271.9	99.4
0°-90°	1279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1279.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	143	143	143	143	143	
5°	318	233	134	103	96	57
15°	2625	923	92	63	64	764
25°	4779	1271	45	38	47	2171
35°	4348	351	16	22	32	2685
45°	1759	50	6	12	19	1394
55°	48	8	3	7	11	96
65°	3	3	3	5	4	3
75°	1	1	3	3	2	1
85°	0	1	3	2	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°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7
2.5°	212.0	213.2	207.5	208.1	202.4	204.9	203.0	197.9	194.0	187.6	185.0
5°	318.0	319.9	307.1	303.2	289.7	289.7	283.9	270.5	258.2	243.4	233.1
7.5°	581.3	589.0	550.5	521.6	479.3	469.0	449.1	402.7	364.9	326.3	297.4
10°	1232.7	1218.6	1139.0	1073.5	964.3	923.8	869.8	736.9	614.8	493.3	398.3
12.5°	1943.9	1989.5	1836.0	1782.6	1609.8	1573.2	1458.2	1241.1	1034.8	820.3	630.1
15°	2624.8	2638.3	2504.0	2417.3	2206.6	2159.1	2017.7	1762.7	1485.2	1185.8	923.1
17.5°	3171.5	3225.4	3028.2	2935.1	2661.4	2585.0	2418.6	2108.3	1799.3	1472.3	1160.8
20°	3809.3	3823.5	3589.6	3410.5	3052.7	2936.3	2737.3	2352.4	1984.4	1611.1	1289.3
22.5°	4389.5	4386.2	4085.5	3832.5	3379.6	3240.9	2994.8	2538.8	2110.9	1672.8	1301.5
25°	4778.7	4789.0	4467.2	4167.8	3612.1	3424.6	3147.0	2635.7	2153.9	1670.8	1270.7
27.5°	4986.2	4975.9	4630.9	4311.1	3697.6	3487.5	3186.2	2638.9	2114.7	1605.3	1178.1
30°	5108.3	4970.8	4602.7	4270.6	3639.7	3423.9	3117.5	2537.5	1984.4	1458.9	1013.1
32.5°	4781.9	4728.6	4408.1	4055.4	3440.6	3226.7	2924.2	2321.6	1777.4	1234.6	725.9
35°	4348.3	4350.3	4037.4	3707.8	3128.4	2942.1	2629.9	2058.8	1525.0	858.2	350.8
37.5°	3893.5	3899.9	3602.5	3296.1	2780.2	2584.3	2292.0	1759.5	1097.2	436.8	211.4
40°	3318.6	3332.0	3075.7	2829.7	2353.7	2164.8	1904.1	1331.6	613.5	244.1	143.3
42.5°	2711.5	2728.2	2500.8	2282.4	1877.7	1722.2	1490.9	824.9	304.5	158.0	84.2
45°	1758.8	1807.0	1638.1	1546.2	1311.8	1219.3	973.2	420.8	183.7	92.5	49.5
47.5°	1006.6	1007.2	864.7	692.5	567.9	494.0	386.1	191.5	107.3	52.1	30.2
50°	467.7	479.3	379.7	316.0	226.1	191.5	157.4	103.5	56.5	30.2	18.6
52.5°	136.2	143.8	130.4	118.2	100.2	89.3	76.4	50.8	29.5	18.0	11.6
55°	48.2	51.4	48.2	44.9	40.5	36.6	32.8	24.5	16.7	10.9	7.7
57.5°	19.9	20.6	19.9	19.3	18.0	18.0	16.0	13.5	10.3	7.0	5.1
60°	9.0	9.6	9.0	9.6	9.0	9.0	9.0	9.6	6.4	4.5	3.9
62.5°	3.9	4.5	4.5	4.5	4.5	5.1	5.1	4.5	3.9	3.2	2.6
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.9	1.9	1.9
72.5°	1.9	1.9	1.9	1.9	1.3	1.3	1.3	1.3	1.3	1.9	1.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.3
82.5°	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.3
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°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7
2.5°	181.8	176.0	167.0	161.3	158.7	154.8	152.3	145.8	143.3	138.1	136.2
5°	223.5	212.0	198.5	187.6	180.5	172.8	161.3	148.4	142.0	133.6	129.1
7.5°	271.1	246.0	222.3	203.0	194.0	183.7	169.0	149.0	136.8	125.9	119.5
10°	331.5	280.1	242.8	212.0	198.5	185.0	167.0	143.8	128.5	115.6	108.6
12.5°	472.8	337.9	261.5	217.1	199.8	183.1	160.6	136.8	118.8	104.0	96.3
15°	680.3	472.1	311.6	221.7	195.3	174.7	149.0	125.2	106.6	91.9	84.2
17.5°	864.0	601.9	381.0	238.3	194.0	165.1	134.9	110.5	92.5	78.4	72.0
20°	964.3	670.0	427.2	248.6	188.2	150.3	118.8	95.7	78.4	66.1	60.4
22.5°	966.1	666.2	410.5	226.1	165.7	130.4	102.8	81.0	65.5	54.6	50.1
25°	908.3	594.2	342.4	177.9	135.5	110.5	86.0	67.4	53.4	44.9	41.1
27.5°	800.4	483.1	251.9	128.5	106.0	89.3	69.4	54.0	41.8	36.6	33.4
30°	629.5	314.7	147.1	95.7	82.3	68.7	52.7	37.9	32.8	28.9	26.3
32.5°	337.9	152.9	102.8	70.7	58.4	48.2	34.6	27.6	23.8	21.2	20.6
35°	176.6	111.8	68.7	44.9	37.2	31.5	23.8	19.3	17.3	16.0	16.0
37.5°	126.5	70.0	43.7	28.9	24.5	19.9	16.7	14.2	12.9	12.9	12.9
40°	75.1	43.1	26.3	18.6	16.0	14.2	12.2	10.3	10.3	10.3	10.3
42.5°	45.6	27.0	18.6	12.9	11.6	10.3	9.0	8.3	7.7	7.7	8.3
45°	28.3	18.6	12.2	9.6	9.0	7.7	7.0	6.4	6.4	6.4	7.0
47.5°	18.0	13.5	9.0	6.4	5.7	5.1	4.5	4.5	5.1	5.1	5.7
50°	13.5	8.3	5.7	4.5	3.9	3.9	3.2	3.9	3.9	4.5	5.1
52.5°	7.7	5.1	3.9	3.2	3.2	2.6	2.6	3.2	3.2	3.9	4.5
55°	5.1	3.9	3.2	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.9
57.5°	3.9	3.2	2.6	2.6	2.6	1.9	2.6	2.6	2.6	3.2	3.9
60°	3.2	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6	3.2	3.2
62.5°	2.6	2.6	2.6	2.6	2.6	1.9	2.6	2.6	2.6	2.6	3.2
65°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2
67.5°	1.9	1.9	2.6	2.6	2.6	1.9	2.6	2.6	2.6	2.6	3.2
70°	1.9	1.9	1.9	2.6	2.6	1.9	2.6	2.6	2.6	2.6	2.6
72.5°	1.9	1.9	1.9	2.6	2.6	1.9	2.6	2.6	2.6	2.6	2.6
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6
77.5°	1.9	1.9	1.9	1.9	2.6	1.9	2.6	2.6	2.6	2.6	2.6
80°	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6	2.6
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	2.6
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°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7
2.5°	131.1	129.1	125.2	124.6	123.9	121.4	119.5	117.5	117.5	115.6	114.3
5°	121.4	118.2	113.8	111.8	111.2	107.9	105.3	103.5	102.8	100.9	98.9
7.5°	111.2	107.3	102.2	100.2	99.6	96.3	93.8	91.9	90.6	88.6	87.3
10°	100.2	95.7	91.2	89.3	88.6	85.4	83.6	81.6	80.3	79.0	77.7
12.5°	88.6	84.8	80.3	78.4	77.7	75.1	73.3	72.0	71.3	70.0	69.4
15°	77.1	73.3	69.4	68.1	67.4	65.5	64.3	63.6	63.0	63.0	62.3
17.5°	65.5	62.3	59.1	58.4	57.8	56.5	55.9	55.2	55.9	55.9	56.5
20°	54.6	52.1	49.5	49.5	48.8	48.2	48.2	48.2	49.5	50.1	51.4
22.5°	44.9	43.1	41.1	41.1	41.1	41.1	41.1	42.4	43.7	44.9	45.6
25°	37.2	35.3	34.6	34.6	34.6	35.3	35.9	37.2	38.5	39.8	41.1
27.5°	30.2	28.9	28.9	28.9	29.5	30.2	30.8	32.1	34.1	35.3	36.6
30°	24.5	23.8	23.8	24.5	25.0	25.7	27.0	28.3	29.5	30.8	32.1
32.5°	19.3	19.9	19.9	20.6	21.2	21.9	23.2	24.5	25.7	27.0	27.6
35°	16.0	16.0	16.7	17.3	18.0	18.6	19.9	21.2	21.9	23.2	24.5
37.5°	12.9	13.5	14.2	14.8	15.4	16.0	16.7	18.0	18.6	19.9	21.2
40°	10.9	11.6	12.2	12.9	12.9	14.2	14.2	15.4	16.0	17.3	18.6
42.5°	9.0	9.6	10.3	10.9	10.9	11.6	12.2	12.9	14.2	14.8	16.0
45°	7.0	7.7	8.3	9.0	9.6	10.3	10.3	11.6	12.2	12.9	14.2
47.5°	6.4	7.0	7.7	7.7	8.3	9.0	9.0	10.3	10.9	11.6	12.2
50°	5.1	5.7	6.4	7.0	7.0	7.7	8.3	9.0	9.6	10.3	10.3
52.5°	4.5	5.1	5.7	5.7	6.4	7.0	7.0	7.7	8.3	8.3	9.0
55°	4.5	5.1	5.1	5.7	5.7	6.4	6.4	7.0	7.0	7.7	7.7
57.5°	3.9	4.5	4.5	5.1	5.1	5.7	5.7	6.4	6.4	6.4	7.0
60°	3.9	3.9	4.5	4.5	5.1	5.1	5.1	5.7	5.7	5.7	6.4
62.5°	3.2	3.9	3.9	4.5	4.5	4.5	5.1	5.1	5.1	5.7	5.7
65°	3.2	3.9	3.9	4.5	4.5	4.5	4.5	4.5	5.1	5.1	5.1
67.5°	3.2	3.2	3.9	3.9	3.9	3.9	4.5	4.5	4.5	4.5	4.5
70°	3.2	3.2	3.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
72.5°	2.6	3.2	3.2	3.2	3.2	3.9	3.9	3.9	3.9	3.9	3.2
75°	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	2.6	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9
85°	2.6	1.9	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9	1.3
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3
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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CATALOG NUMBER: LDSQA4A15930D010TE LAR25NF 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7
2.5°	113.1	111.8	112.5	112.5	111.2	110.5	110.5	111.2
5°	97.6	96.3	97.0	97.0	95.7	95.0	95.0	95.7
7.5°	86.0	84.8	85.4	85.4	84.2	84.2	84.2	84.2
10°	77.1	76.4	76.4	76.4	75.1	75.8	75.1	74.5
12.5°	68.7	68.7	68.7	68.7	68.1	68.7	68.1	68.1
15°	62.3	62.3	63.0	63.0	63.0	63.6	63.6	63.6
17.5°	57.1	57.8	58.4	59.1	59.1	59.7	59.7	59.7
20°	52.1	53.4	54.0	54.6	54.6	55.9	55.2	55.9
22.5°	46.9	48.2	48.8	49.5	50.1	50.8	50.8	51.4
25°	42.4	43.7	44.4	44.9	45.6	46.9	46.9	46.9
27.5°	37.9	39.2	39.8	41.1	41.8	43.1	43.1	43.1
30°	33.4	34.6	35.3	35.9	37.2	38.5	38.5	39.2
32.5°	28.9	30.8	31.5	32.1	33.4	34.6	35.3	35.3
35°	25.7	27.0	27.6	28.9	29.5	31.5	31.5	31.5
37.5°	22.5	23.8	25.0	25.7	26.3	27.6	28.3	28.9
40°	19.9	21.2	21.9	22.5	23.8	25.0	25.7	25.7
42.5°	17.3	18.6	19.3	19.9	20.6	21.9	21.9	21.9
45°	15.4	16.0	16.7	17.3	18.0	18.6	19.3	19.3
47.5°	12.9	14.2	14.2	14.8	15.4	16.7	16.7	17.3
50°	10.9	12.2	12.2	12.9	13.5	14.2	14.8	14.8
52.5°	9.6	10.3	10.9	10.9	11.6	12.2	12.9	12.9
55°	8.3	9.0	9.0	9.6	9.6	10.3	10.9	10.9
57.5°	7.0	7.7	8.3	8.3	8.3	9.0	9.0	9.6
60°	6.4	7.0	7.0	7.0	7.0	7.7	7.7	7.7
62.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
65°	5.1	5.1	5.1	5.1	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.2	3.2	3.2	2.6
72.5°	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6
75°	3.2	2.6	2.6	2.6	2.6	2.6	1.9	1.9
77.5°	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.3	1.3	1.3
82.5°	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6
87.5°	1.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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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1121 Highway 74 South

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)