

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: P1212519

Luminaire Tested: **LDSQA6A35927D010TE LAR35FL 6LSQA1H**

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: P1212519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29057)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A35927D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

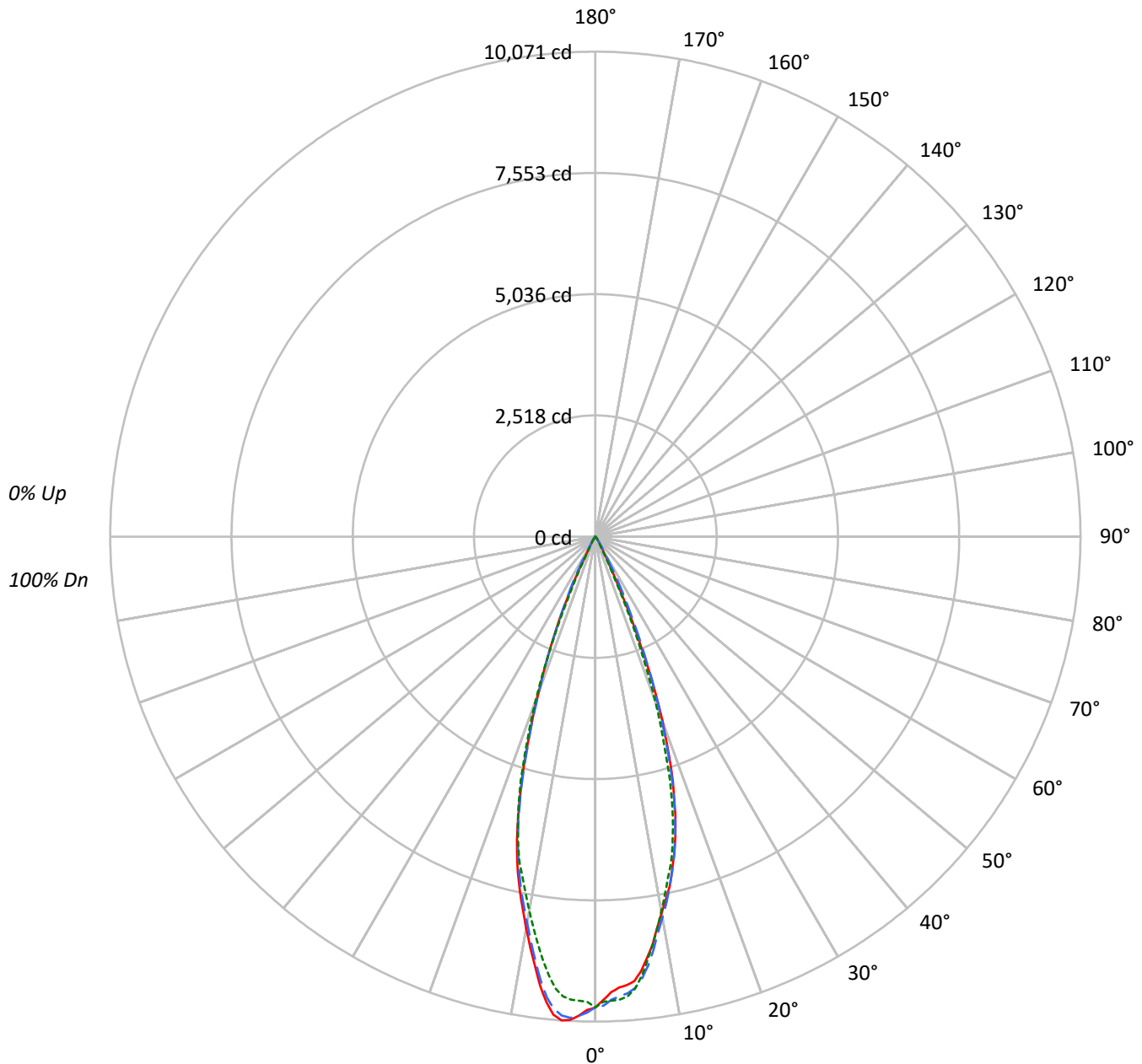
Lumens per Lamp: N/A
Luminaire Lumens: 3257.3 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1212519

CATALOG NUMBER: LDSQA6A35927D010TE LAR35FL 6LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212519

CATALOG NUMBER: LDSQA6A35927D010TE LAR35FL 6LSQA1H

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	101	103	100	98		100	98	96		97
3	107	103	99	96	106	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	93	91	95	92	90		93	91	89		92
5	101	94	90	87	99	94	90	87	92	89	86		90	88	85		89
6	97	91	87	84	96	90	86	83	89	85	83		88	85	82		87
7	94	88	83	80	93	87	83	80	86	82	80		85	82	79		84
8	92	85	80	77	91	84	80	77	83	80	77		82	79	77		82
9	89	82	78	75	88	82	78	75	81	77	75		80	77	74		79
10	86	79	75	72	86	79	75	72	78	75	72		78	74	72		77

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	421067	421067	421067
5°	400555	407514	430749
10°	347048	345168	361196
15°	286574	277579	278733
20°	186382	166061	158277
25°	56020	42818	57013
30°	12225	8894	9441
35°	4363	2675	2943
40°	1293	837	1012
45°	359	244	304
50°	74	74	134
55°	83	0	150
60°	95	0	0
65°	112	0	0
70°	138	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1212519

CATALOG NUMBER: LDSQA6A35927D010TE LAR35FL 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.5	26.4
10°-20°	1672.1	51.3
20°-30°	660.7	20.3
30°-40°	54.3	1.7
40°-50°	7.5	0.2
50°-60°	0.9	0.0
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	3194.3	98.1
0°-40°	3248.6	99.7
0°-60°	3257.0	100.0
0°-90°	3257.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3257.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9780	9780	9780	9780	9780	
5°	9268	9416	9429	9852	9966	838
15°	6429	6412	6227	6176	6253	1718
25°	1179	1594	901	1321	1200	662
35°	83	84	51	71	56	62
45°	6	14	4	11	5	6
55°	1	1	0	1	2	1
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212519

CATALOG NUMBER: LDSQA6A35927D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9779.6	9779.6	9779.6	9779.6	9779.6	9779.6	9779.6	9779.6	9779.6
1°	9621.5	9511.7	9741.6	9732.6	9660.6	9863.5	9884.3	10015.4	9829.4
2°	9466.7	9379.8	9621.5	9646.6	9646.6	9899.5	9965.3	10129.3	9958.3
3°	9376.7	9304.9	9556.7	9622.6	9629.6	9911.3	10008.4	10192.1	10052.3
4°	9337.9	9272.0	9510.7	9561.6	9571.7	9869.4	9971.3	10181.2	10071.4
5°	9267.8	9194.0	9415.8	9423.7	9428.8	9733.5	9852.5	10060.4	9966.4
6°	9070.0	9031.1	9234.0	9189.9	9176.0	9501.7	9622.6	9816.5	9721.6
7°	8811.2	8785.3	8976.1	8909.1	8874.2	9178.0	9289.8	9473.8	9398.9
8°	8546.4	8483.6	8665.4	8607.4	8548.4	8810.3	8908.2	9078.1	9008.1
9°	8215.7	8183.7	8318.7	8299.6	8219.7	8488.4	8524.4	8690.4	8633.3
10°	7938.0	7898.9	8034.8	7998.8	7895.0	8129.7	8154.7	8313.7	8261.6
11°	7668.2	7617.2	7733.2	7687.1	7570.3	7781.0	7798.0	7945.9	7893.0
12°	7420.3	7337.3	7428.2	7373.3	7249.5	7435.3	7443.4	7582.1	7533.2
13°	7092.5	7037.6	7109.6	7050.6	6971.6	7076.5	7060.7	7192.4	7147.4
14°	6776.8	6707.9	6773.8	6702.8	6619.9	6689.9	6644.0	6758.8	6723.9
15°	6429.1	6360.1	6412.1	6325.2	6227.3	6253.2	6176.3	6283.3	6253.2
16°	6024.4	5955.5	6000.5	5894.5	5778.5	5763.6	5661.7	5755.5	5724.5
17°	5567.8	5517.7	5548.7	5415.8	5294.0	5242.0	5107.1	5189.9	5159.0
18°	5133.1	5035.1	5048.1	4900.3	4714.4	4682.3	4530.6	4609.4	4578.5
19°	4563.5	4517.5	4524.5	4357.6	4169.9	4110.8	3960.0	4029.8	3994.9
20°	4067.8	3998.0	3991.9	3811.1	3624.3	3562.2	3416.4	3488.4	3454.4
21°	3501.4	3544.2	3469.3	3278.5	3047.6	3053.7	2924.8	2931.8	2954.7
22°	2863.8	3020.8	2956.7	2731.0	2442.1	2575.1	2459.2	2467.1	2487.1
23°	2233.3	2396.2	2454.1	2180.3	1866.6	2131.4	2039.4	2045.5	2058.5
24°	1657.8	1887.5	1991.5	1677.8	1344.1	1714.7	1662.7	1669.7	1655.8
25°	1179.2	1448.8	1593.7	1239.1	901.3	1332.0	1321.0	1332.0	1200.1
26°	796.3	1092.2	1257.1	869.4	557.6	984.2	1051.2	1027.3	778.3
27°	509.6	830.3	966.2	568.6	353.7	677.5	784.4	777.4	446.6
28°	358.7	576.5	713.5	349.7	272.9	425.7	560.5	511.6	285.8
29°	302.8	374.8	497.7	248.8	221.8	251.8	375.7	298.8	233.8
30°	245.9	248.8	326.7	200.9	178.9	179.8	239.8	195.8	189.9
32.5°	149.9	148.9	140.9	117.9	104.9	104.9	117.0	112.9	112.0
35°	83.0	90.9	83.9	70.9	50.9	63.0	70.9	67.0	56.0
37.5°	45.0	52.9	58.0	39.1	27.9	36.9	47.9	39.1	32.0
40°	23.0	29.0	41.0	22.0	14.9	21.1	32.9	22.0	18.0
42.5°	12.1	16.0	25.9	12.1	7.0	12.1	21.1	12.1	9.0
45°	5.9	7.9	14.0	5.9	4.0	5.9	11.0	7.0	5.0
47.5°	3.1	4.0	7.0	3.1	1.1	3.1	5.9	3.1	3.1
50°	1.1	2.0	4.0	1.1	1.1	1.1	3.1	2.0	2.0
52.5°	1.1	1.1	2.0	1.1	0.0	1.1	2.0	1.1	2.0
55°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	2.0
57.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.0
60°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	0.0



TEST NUMBER: P1212519

CATALOG NUMBER: LDSQA6A35927D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	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

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



62.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)