

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: P1212537

Luminaire Tested: **LDSQA6A35940D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212537
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: LDSQA6A35940D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

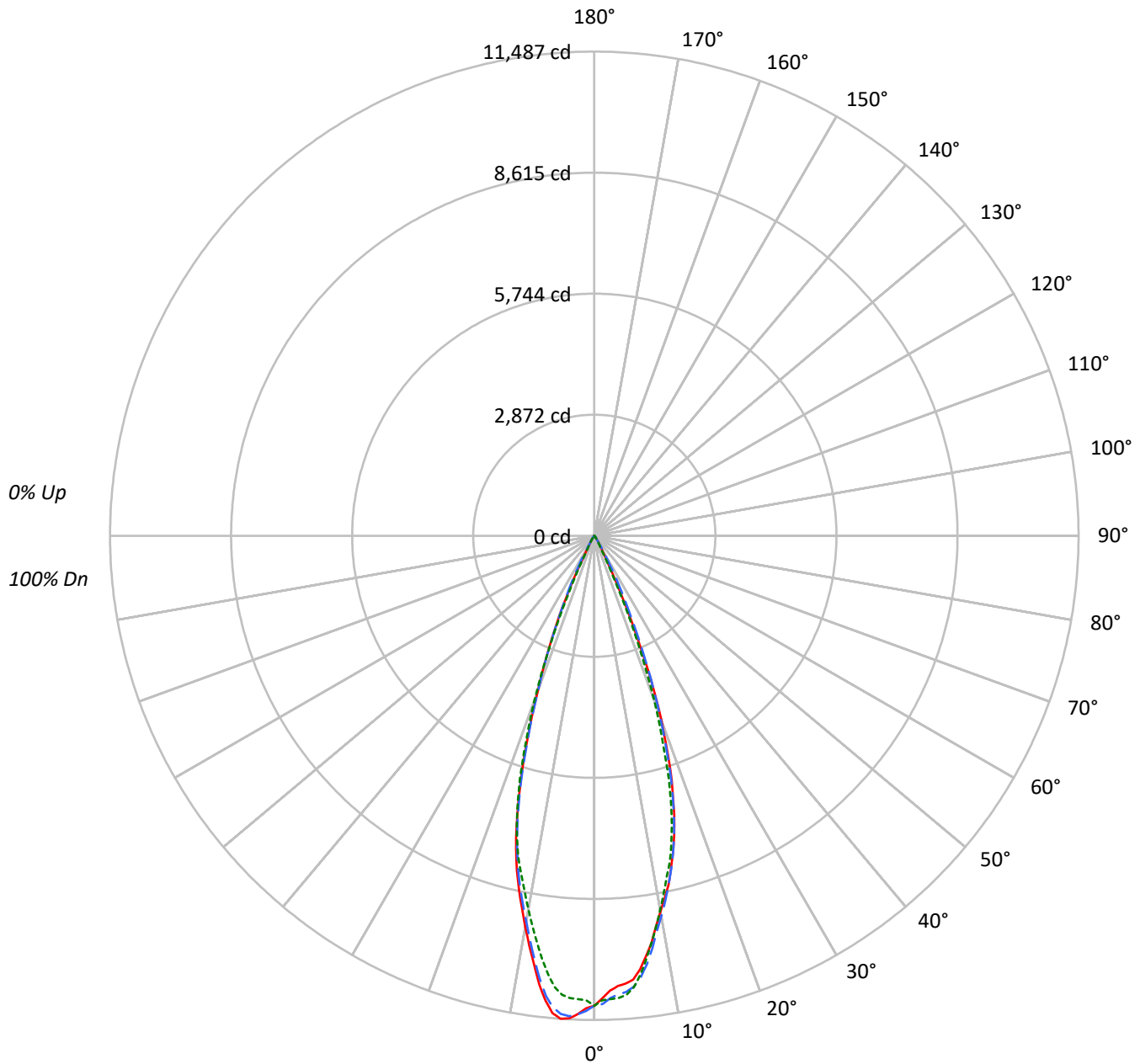
Lumens per Lamp: N/A
Luminaire Lumens: 3714.9 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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: P1212537

CATALOG NUMBER: LDSQA6A35940D010TE LAR35FL 6LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212537

CATALOG NUMBER: LDSQA6A35940D010TE 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	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	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	93	93
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83	83	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	81	81
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75	75	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71	71	71

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	480247	480247	480247
5°	456858	464785	491292
10°	395822	393684	411964
15°	326851	316586	317910
20°	212586	189401	180517
25°	63887	48837	65022
30°	13940	10137	10764
35°	4978	3054	3359
40°	1478	961	1152
45°	414	274	353
50°	74	74	154
55°	83	0	173
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: P1212537

CATALOG NUMBER: LDSQA6A35940D010TE LAR35FL 6LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.5	26.4
10°-20°	1907.1	51.3
20°-30°	753.6	20.3
30°-40°	62.0	1.7
40°-50°	8.5	0.2
50°-60°	1.0	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°	3643.2	98.1
0°-40°	3705.2	99.7
0°-60°	3714.6	100.0
0°-90°	3714.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11154	11154	11154	11154	11154	
5°	10570	10739	10754	11237	11367	956
15°	7333	7313	7102	7044	7132	1960
25°	1345	1818	1028	1507	1369	756
35°	95	96	58	81	64	71
45°	7	16	4	13	6	7
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

TEST NUMBER: P1212537

CATALOG NUMBER: LDSQA6A35940D010TE LAR35FL 6LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11154.1	11154.1	11154.1	11154.1	11154.1	11154.1	11154.1	11154.1	11154.1
1°	10973.9	10848.6	11110.7	11100.4	11018.3	11249.8	11273.8	11423.0	11210.9
2°	10797.3	10698.1	10973.9	11002.5	11002.5	11290.9	11366.1	11552.9	11358.0
3°	10694.7	10612.6	10899.9	10975.1	10983.1	11304.5	11415.1	11624.8	11465.1
4°	10650.2	10575.0	10847.5	10905.7	10917.0	11256.7	11372.9	11612.2	11486.9
5°	10570.5	10486.3	10739.2	10748.3	10753.9	11101.7	11237.2	11474.3	11367.2
6°	10344.8	10300.5	10531.8	10481.6	10465.7	10837.3	10975.1	11196.2	11088.0
7°	10049.8	10020.1	10237.7	10161.4	10121.4	10467.9	10595.5	10805.2	10719.9
8°	9747.7	9675.9	9883.3	9817.2	9749.9	10048.5	10160.3	10354.0	10274.2
9°	9370.4	9333.9	9487.8	9466.2	9374.9	9681.5	9722.5	9911.7	9846.9
10°	9053.6	9009.2	9164.2	9123.1	9004.7	9272.3	9301.0	9482.0	9422.8
11°	8745.8	8687.7	8820.0	8767.6	8634.2	8874.7	8894.0	9062.6	9002.3
12°	8463.2	8368.7	8472.4	8409.6	8268.3	8480.3	8489.5	8647.9	8592.1
13°	8089.4	8026.7	8108.8	8041.5	7951.5	8071.2	8053.0	8203.3	8152.2
14°	7729.4	7650.7	7726.0	7645.0	7550.5	7630.2	7577.6	7708.9	7668.9
15°	7332.7	7254.0	7313.4	7214.2	7102.4	7132.1	7044.3	7166.3	7132.1
16°	6871.1	6792.5	6843.8	6723.0	6590.7	6573.6	6457.5	6564.6	6529.1
17°	6350.2	6293.3	6328.6	6177.1	6038.1	5978.7	5825.0	5919.5	5884.2
18°	5854.5	5742.9	5757.7	5589.0	5377.0	5340.6	5167.3	5257.3	5222.0
19°	5204.9	5152.5	5160.4	4970.2	4756.0	4688.6	4516.6	4596.3	4556.5
20°	4639.7	4559.9	4553.1	4346.8	4133.7	4063.0	3896.6	3978.5	3939.8
21°	3993.5	4042.4	3956.9	3739.3	3476.0	3482.8	3335.8	3343.9	3370.0
22°	3266.3	3445.2	3372.3	3114.7	2785.3	2936.9	2804.8	2813.9	2836.6
23°	2547.2	2732.9	2799.0	2486.7	2128.9	2430.9	2326.1	2333.0	2347.7
24°	1890.7	2152.8	2271.4	1913.6	1532.9	1955.7	1896.5	1904.4	1888.4
25°	1344.8	1652.6	1817.8	1413.2	1028.0	1519.2	1506.6	1519.2	1368.7
26°	908.3	1245.6	1433.7	991.4	635.9	1122.7	1199.0	1171.6	887.8
27°	581.2	947.2	1102.1	648.5	403.4	772.7	894.6	886.7	509.4
28°	409.1	657.5	813.8	398.9	311.2	485.5	639.4	583.6	326.0
29°	345.2	427.3	567.5	283.9	253.1	287.3	428.6	340.7	266.8
30°	280.4	283.9	372.6	229.1	203.9	205.2	273.6	223.4	216.5
32.5°	171.0	169.7	160.7	134.5	119.7	119.7	133.4	128.7	127.6
35°	94.7	103.7	95.8	81.0	58.1	71.8	81.0	76.3	63.9
37.5°	51.3	60.5	66.1	44.5	31.9	42.1	54.7	44.5	36.5
40°	26.3	33.1	46.8	25.0	17.1	23.9	37.6	25.0	20.5
42.5°	13.7	18.2	29.7	13.7	7.9	13.7	23.9	13.7	10.3
45°	6.8	9.2	16.0	6.8	4.5	6.8	12.6	7.9	5.8
47.5°	3.4	4.5	7.9	3.4	1.1	3.4	6.8	3.4	3.4
50°	1.1	2.3	4.5	1.1	1.1	1.1	3.4	2.3	2.3
52.5°	1.1	1.1	2.3	1.1	0.0	1.1	2.3	1.1	2.3
55°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	2.3
57.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.3
60°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212537

CATALOG NUMBER: LDSQA6A35940D010TE 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





— 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)