

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: P1219468

Luminaire Tested: **LDSQA4A15927D010TE LAR35FL 4LSQA1H**

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: P1219468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15927D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

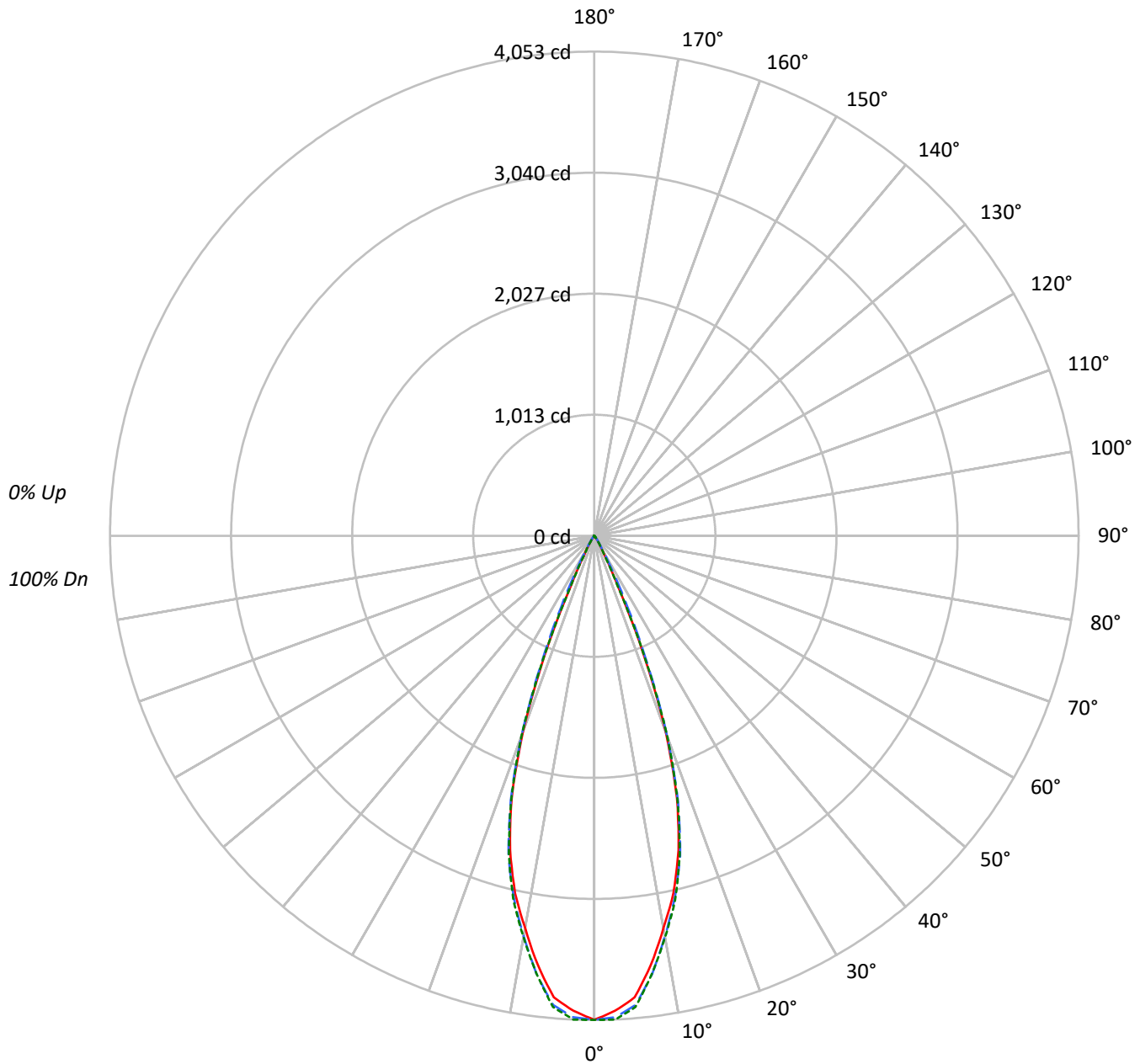
Lumens per Lamp: N/A
Luminaire Lumens: 1443.8 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1219468

CATALOG NUMBER: LDSQA4A15927D010TE LAR35FL 4LSQA1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219468

CATALOG NUMBER: LDSQA4A15927D010TE LAR35FL 4LSQA1H

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	112	110	109	107	107	105	104		103	102	101		99
2	111	107	104	101	109	105	103	100	102	100	98		99	98	96		97
3	107	102	98	95	105	101	97	95	98	96	93		96	94	92		94
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91
5	100	94	90	86	99	93	89	86	91	88	85		90	87	85		88
6	97	90	86	83	96	90	85	82	88	85	82		87	84	81		86
7	94	87	83	79	93	86	82	79	85	82	79		84	81	79		83
8	91	84	80	77	90	83	79	76	82	79	76		82	78	76		81
9	88	81	77	74	87	81	77	74	80	76	73		79	76	73		78
10	86	78	74	71	85	78	74	71	77	74	71		77	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	392539	392539	392539
5°	377196	383536	385082
10°	328005	334704	335668
15°	273218	278333	277099
20°	179536	183577	183835
25°	49800	70013	49020
30°	11947	15169	12148
35°	3193	5511	3122
40°	1163	2087	1088
45°	589	754	507
50°	377	377	286
55°	203	203	101
60°	233	116	116
65°	138	138	138
70°	170	170	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1219468

CATALOG NUMBER: LDSQA4A15927D010TE LAR35FL 4LSQA1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	24.7
10°-20°	738.3	51.1
20°-30°	315.3	21.8
30°-40°	27.8	1.9
40°-50°	4.2	0.3
50°-60°	1.2	0.1
60°-70°	0.6	0.0
70°-80°	0.3	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°	1409.8	97.6
0°-40°	1437.6	99.6
0°-60°	1442.9	99.9
0°-90°	1443.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4052	4052	4052	4052	4052	
5°	3879	3911	3944	3938	3960	352
15°	2724	2751	2775	2755	2763	730
25°	466	635	655	627	459	286
35°	27	34	47	33	26	23
45°	4	4	6	4	4	4
55°	1	1	1	1	1	1
65°	1	1	1	1	1	1
75°	0	1	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219468

CATALOG NUMBER: LDSQA4A15927D010TE LAR35FL 4LSQA1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4052.0	4052.0	4052.0	4052.0	4052.0
2.5°	3980.8	4009.0	4034.2	4032.4	4053.2
5°	3878.8	3910.8	3944.0	3937.8	3959.9
7.5°	3624.7	3657.3	3700.2	3683.7	3698.4
10°	3334.4	3368.8	3402.5	3392.1	3412.3
12.5°	3062.5	3082.1	3106.6	3104.8	3126.3
15°	2724.2	2750.6	2775.2	2754.9	2762.9
17.5°	2300.7	2311.2	2329.6	2309.3	2314.8
20°	1741.5	1770.3	1780.7	1757.4	1783.2
22.5°	1089.6	1158.9	1164.4	1152.2	1113.6
25°	465.9	634.7	655.0	626.8	458.6
27.5°	188.5	240.7	311.8	235.7	183.5
30°	106.8	116.0	135.6	114.1	108.6
32.5°	51.0	65.0	77.9	63.3	51.6
35°	27.0	33.8	46.6	33.2	26.4
37.5°	15.3	19.6	28.2	18.4	15.3
40°	9.2	11.7	16.5	11.1	8.6
42.5°	6.1	7.3	9.2	6.7	5.5
45°	4.3	4.3	5.5	4.3	3.7
47.5°	3.1	3.1	3.7	2.5	2.5
50°	2.5	2.5	2.5	1.9	1.9
52.5°	1.9	1.9	1.9	1.2	1.2
55°	1.2	1.2	1.2	1.2	0.6
57.5°	1.2	1.2	1.2	0.6	0.6
60°	1.2	1.2	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.0
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.6	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	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



(END OF REPORT)