

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: P1212305

Luminaire Tested: **LDSQA4A30930D010TE LAR15SP 4LSQAL1H**

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: P1212305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30930D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

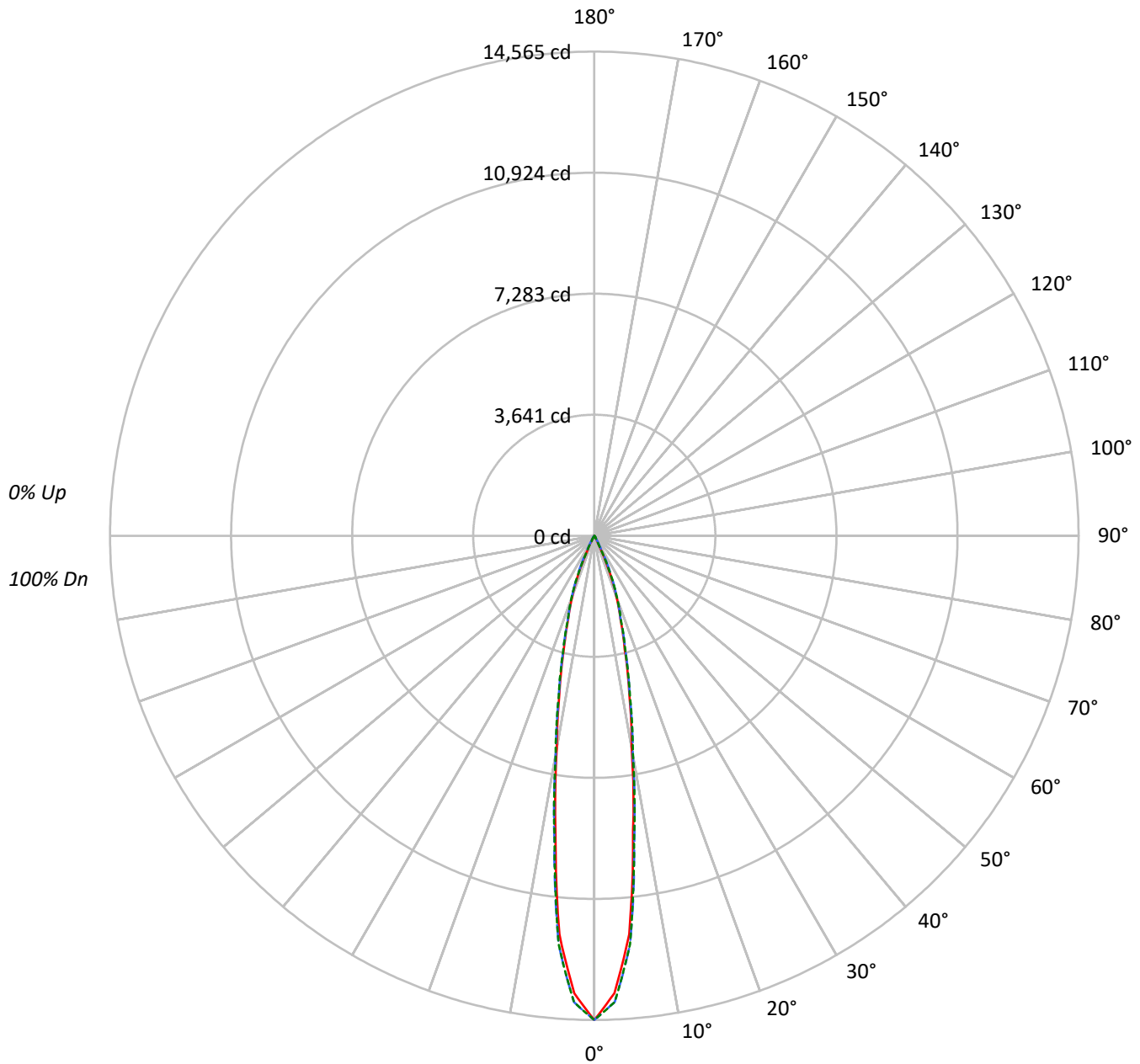
Lumens per Lamp: N/A
Luminaire Lumens: 2430.6 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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

TEST NUMBER: P1212305

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212305

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H

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	110	113	111	109	108	107	106	105		103	102	102		100
2	112	108	105	103	110	107	104	102	103	101	100		101	99	98		98
3	108	104	100	98	107	103	99	97	100	98	95		98	96	94		96
4	105	100	96	94	104	99	96	93	97	94	92		95	93	91		94
5	102	97	93	90	101	96	92	90	94	91	89		93	90	88		92
6	100	94	90	87	98	93	89	87	92	89	86		91	88	86		89
7	97	91	87	84	96	90	87	84	89	86	84		88	85	83		87
8	95	88	85	82	94	88	84	82	87	84	81		86	83	81		85
9	92	86	82	80	92	86	82	80	85	82	79		84	81	79		84
10	90	84	80	78	89	84	80	78	83	80	77		82	79	77		82

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1411029	1411029	1411029
5°	1170408	1200709	1199008
10°	637762	656589	659905
15°	354605	364755	366651
20°	199917	205587	208175
25°	60179	88665	59912
30°	11343	16231	11343
35°	4872	7545	5026
40°	2377	3958	2377
45°	1548	2055	1206
50°	934	1130	558
55°	625	625	422
60°	484	233	233
65°	275	275	275
70°	0	340	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1212305

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.7	39.9
10°-20°	1033.7	42.5
20°-30°	377.0	15.5
30°-40°	35.9	1.5
40°-50°	9.9	0.4
50°-60°	2.9	0.1
60°-70°	1.2	0.0
70°-80°	0.2	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°	2380.4	97.9
0°-40°	2416.3	99.4
0°-60°	2429.2	99.9
0°-90°	2430.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14565	14565	14565	14565	14565	
5°	12036	12340	12347	12218	12330	951
15°	3536	3619	3637	3629	3656	1011
25°	563	814	830	822	560	325
35°	41	50	64	50	42	29
45°	11	11	15	11	9	9
55°	4	4	4	2	2	3
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	0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212305

CATALOG NUMBER: LDSQA4A30930D010TE LAR15SP 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14565.4	14565.4	14565.4	14565.4	14565.4
2.5°	13770.9	14061.2	14039.9	13974.8	14039.9
5°	12035.6	12339.6	12347.2	12218.2	12329.7
7.5°	8946.7	9181.8	9223.2	9096.7	9180.6
10°	6483.3	6693.4	6674.7	6649.6	6708.4
12.5°	4843.1	4949.4	4938.1	4965.7	4969.4
15°	3535.7	3619.4	3636.9	3629.4	3655.8
17.5°	2603.5	2648.6	2639.8	2653.6	2663.6
20°	1939.2	2010.5	1994.2	2006.8	2019.3
22.5°	1286.2	1417.5	1401.2	1421.2	1410.0
25°	563.0	814.5	829.5	822.0	560.5
27.5°	172.7	291.5	374.0	285.2	172.7
30°	101.4	121.4	145.1	118.9	101.4
32.5°	63.8	76.3	91.3	75.0	62.6
35°	41.2	50.1	63.8	50.1	42.5
37.5°	27.6	33.8	45.1	33.8	28.8
40°	18.8	22.5	31.3	23.7	18.8
42.5°	13.8	16.3	21.2	16.3	12.5
45°	11.3	11.3	15.0	11.3	8.8
47.5°	8.8	8.8	10.1	7.5	6.2
50°	6.2	6.2	7.5	5.0	3.7
52.5°	3.7	5.0	5.0	3.7	2.5
55°	3.7	3.7	3.7	2.5	2.5
57.5°	2.5	2.5	2.5	1.2	1.2
60°	2.5	2.5	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	0.0	1.2	1.2	0.0	0.0
72.5°	0.0	1.2	0.0	0.0	0.0
75°	0.0	1.2	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)