

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: P1219578

Luminaire Tested: **LDSQA4A35950D010TE LAR25NF 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: P1219578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35950D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

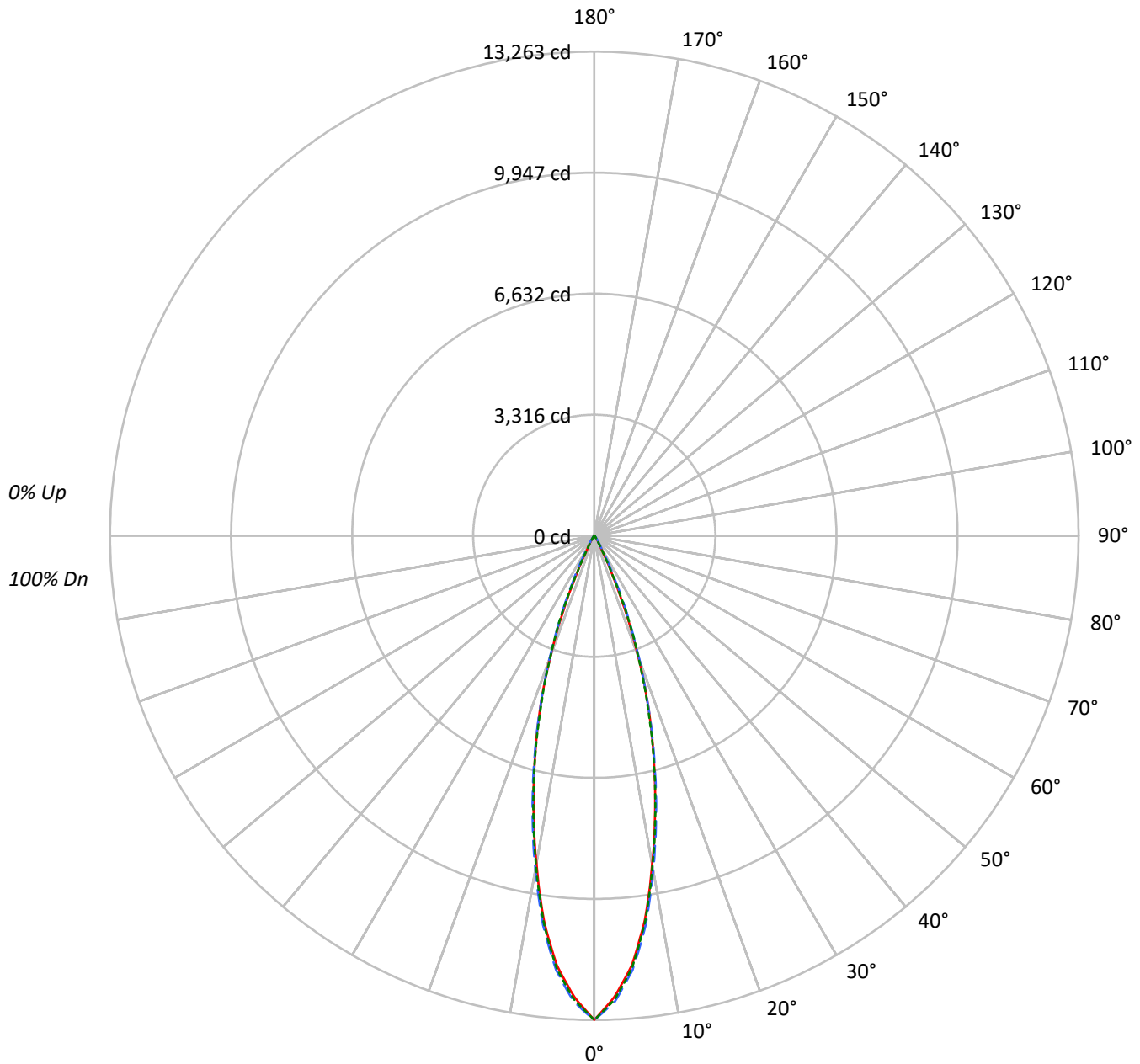
Lumens per Lamp: N/A
Luminaire Lumens: 3537.5 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1219578

CATALOG NUMBER: LDSQA4A35950D010TE LAR25NF 4LSQAL1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219578

CATALOG NUMBER: LDSQA4A35950D010TE LAR25NF 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	109	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	101	103	100	99		100	98	96		97
3	107	103	99	96	106	101	98	95	99	96	94		97	94	92		95
4	104	99	95	91	102	97	94	91	95	92	90		94	91	89		92
5	101	95	91	87	99	94	90	87	92	89	86		91	88	86		89
6	98	91	87	84	96	91	87	84	89	86	83		88	85	83		87
7	95	88	84	81	94	88	84	81	87	83	80		85	82	80		85
8	92	85	81	78	91	85	81	78	84	80	78		83	80	77		82
9	89	83	78	76	89	82	78	76	81	78	75		81	77	75		80
10	87	80	76	73	86	80	76	73	79	76	73		78	75	73		78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1284839	1284839	1284839
5°	1147467	1161908	1154683
10°	898225	914289	903095
15°	630762	635395	627281
20°	362020	369505	361670
25°	114586	150737	118306
30°	30438	37821	29330
35°	10348	18733	10537
40°	4603	7524	4603
45°	2480	3398	2041
50°	1492	1718	995
55°	828	828	540
60°	620	620	329
65°	390	390	390
70°	482	482	482
75°	0	636	636
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1219578

CATALOG NUMBER: LDSQA4A35950D010TE LAR25NF 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.0	29.7
10°-20°	1715.2	48.5
20°-30°	664.3	18.8
30°-40°	81.4	2.3
40°-50°	17.1	0.5
50°-60°	4.5	0.1
60°-70°	1.8	0.1
70°-80°	1.0	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°	3431.6	97.0
0°-40°	3513.0	99.3
0°-60°	3534.7	99.9
0°-90°	3537.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13263	13263	13263	13263	13263	
5°	11800	11971	11948	11876	11874	1043
15°	6289	6373	6335	6289	6254	1706
25°	1072	1343	1410	1386	1107	601
35°	88	106	158	104	89	67
45°	18	20	25	18	15	15
55°	5	5	5	3	3	5
65°	2	2	2	2	2	2
75°	0	2	2	2	2	1
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: P1219578

CATALOG NUMBER: LDSQA4A35950D010TE LAR25NF 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	12642.6	12819.0	12777.9	12695.4	12716.8
5°	11799.7	11971.3	11948.2	11875.8	11873.9
7.5°	10610.5	10778.8	10758.9	10671.6	10663.2
10°	9131.1	9284.4	9294.4	9167.3	9180.6
12.5°	7686.2	7811.5	7816.4	7729.0	7711.0
15°	6289.2	6373.2	6335.4	6289.2	6254.5
17.5°	4911.8	4930.0	4921.8	4854.2	4829.4
20°	3511.6	3590.8	3584.2	3526.4	3508.2
22.5°	2187.0	2330.5	2396.6	2343.8	2371.8
25°	1072.0	1342.6	1410.2	1385.5	1106.8
27.5°	435.4	569.0	709.3	560.9	420.6
30°	272.1	296.9	338.1	285.3	262.2
32.5°	143.5	179.8	229.3	174.7	143.5
35°	87.5	105.6	158.4	103.9	89.1
37.5°	56.1	65.9	92.4	65.9	57.7
40°	36.4	42.8	59.5	42.8	36.4
42.5°	24.8	28.0	38.0	28.0	23.1
45°	18.1	19.9	24.8	18.1	14.9
47.5°	13.3	14.9	16.5	11.4	9.9
50°	9.9	9.9	11.4	8.2	6.6
52.5°	6.6	8.2	8.2	4.9	4.9
55°	4.9	4.9	4.9	3.2	3.2
57.5°	4.9	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	1.7	1.7
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	0.0
75°	0.0	1.7	1.7	1.7	1.7
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)