

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: P1219582

Luminaire Tested: **LDSQA4A35950D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35950D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

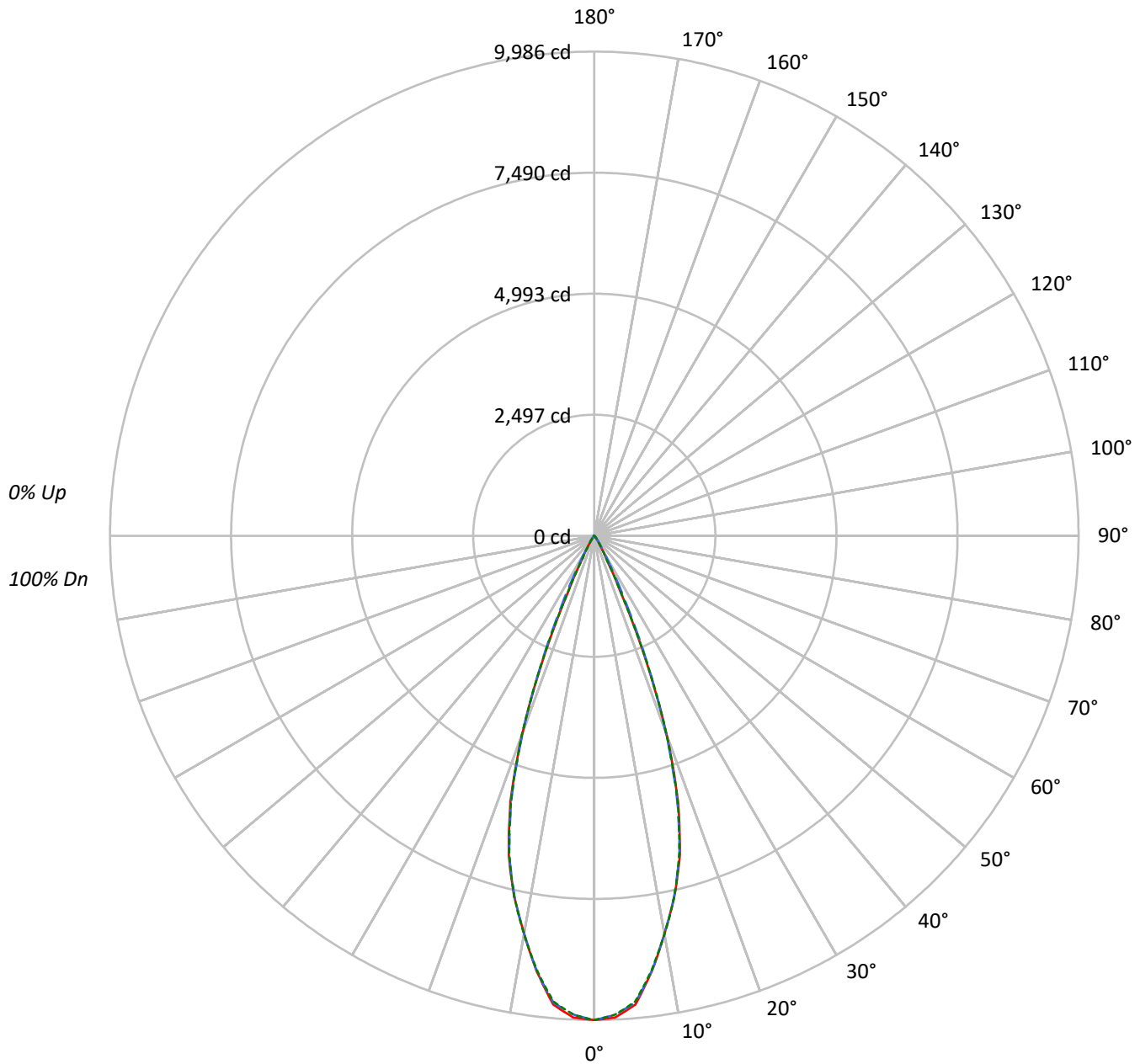
Lumens per Lamp: N/A
Luminaire Lumens: 3601.8 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P1219582

CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 4LSQAL1H

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219582

CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 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	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	94	92		94
4	103	98	93	90	102	97	93	90	95	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	86	82	95	89	85	82	88	84	82		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	79	76	73		79	75	73		78
10	85	78	74	71	84	78	73	71	77	73	71		76	73	70		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	967446	967446	967446
5°	944049	939878	938108
10°	819805	819647	820621
15°	683827	680176	679855
20°	448536	444979	448886
25°	137162	173472	136638
30°	34319	41523	33581
35°	11117	17172	10928
40°	5223	8144	4603
45°	2726	3398	2041
50°	1492	1718	995
55°	828	1115	540
60°	620	620	620
65°	390	390	390
70°	482	482	482
75°	0	636	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P1219582

CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 4LSQAL1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.3	24.4
10°-20°	1817.9	50.5
20°-30°	793.9	22.0
30°-40°	86.6	2.4
40°-50°	17.9	0.5
50°-60°	4.9	0.1
60°-70°	2.1	0.1
70°-80°	1.2	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°	3489.1	96.9
0°-40°	3575.7	99.3
0°-60°	3598.5	99.9
0°-90°	3601.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3601.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9986	9986	9986	9986	9986	
5°	9708	9682	9665	9690	9647	879
15°	6818	6788	6782	6792	6779	1824
25°	1283	1582	1623	1596	1278	743
35°	94	112	145	111	92	74
45°	20	22	25	18	15	16
55°	5	5	7	3	3	5
65°	2	2	2	2	2	2
75°	0	2	2	0	0	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: P1219582

CATALOG NUMBER: LDSQA4A35950D010TE LAR35FL 4LSQAL1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9986.5	9986.5	9986.5	9986.5	9986.5
2.5°	9942.0	9905.8	9886.0	9928.9	9886.0
5°	9707.9	9681.6	9665.0	9689.8	9646.8
7.5°	9066.3	9040.0	9063.0	9063.0	9041.6
10°	8333.9	8319.1	8332.3	8366.9	8342.2
12.5°	7623.1	7611.6	7616.5	7652.8	7624.8
15°	6818.3	6788.5	6781.9	6791.9	6778.7
17.5°	5746.2	5701.7	5673.6	5696.8	5703.4
20°	4350.8	4350.8	4316.3	4336.1	4354.2
22.5°	2782.4	2846.7	2853.3	2849.9	2838.5
25°	1283.2	1581.6	1622.9	1596.5	1278.3
27.5°	519.6	641.6	798.2	661.4	501.4
30°	306.8	323.3	371.2	318.2	300.2
32.5°	161.6	194.6	227.7	193.0	156.7
35°	94.0	112.2	145.2	110.6	92.4
37.5°	61.2	70.9	97.3	70.9	57.7
40°	41.3	46.2	64.4	44.6	36.4
42.5°	28.0	31.3	41.3	28.0	23.1
45°	19.9	21.5	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	6.6	3.2	3.2
57.5°	4.9	4.9	4.9	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2
62.5°	1.7	3.2	3.2	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	1.7
75°	0.0	1.7	1.7	0.0	0.0
77.5°	0.0	1.7	1.7	1.7	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)