

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: P1219508

Luminaire Tested: **LDSQA4A15940D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219508
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: LDSQA4A15940D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

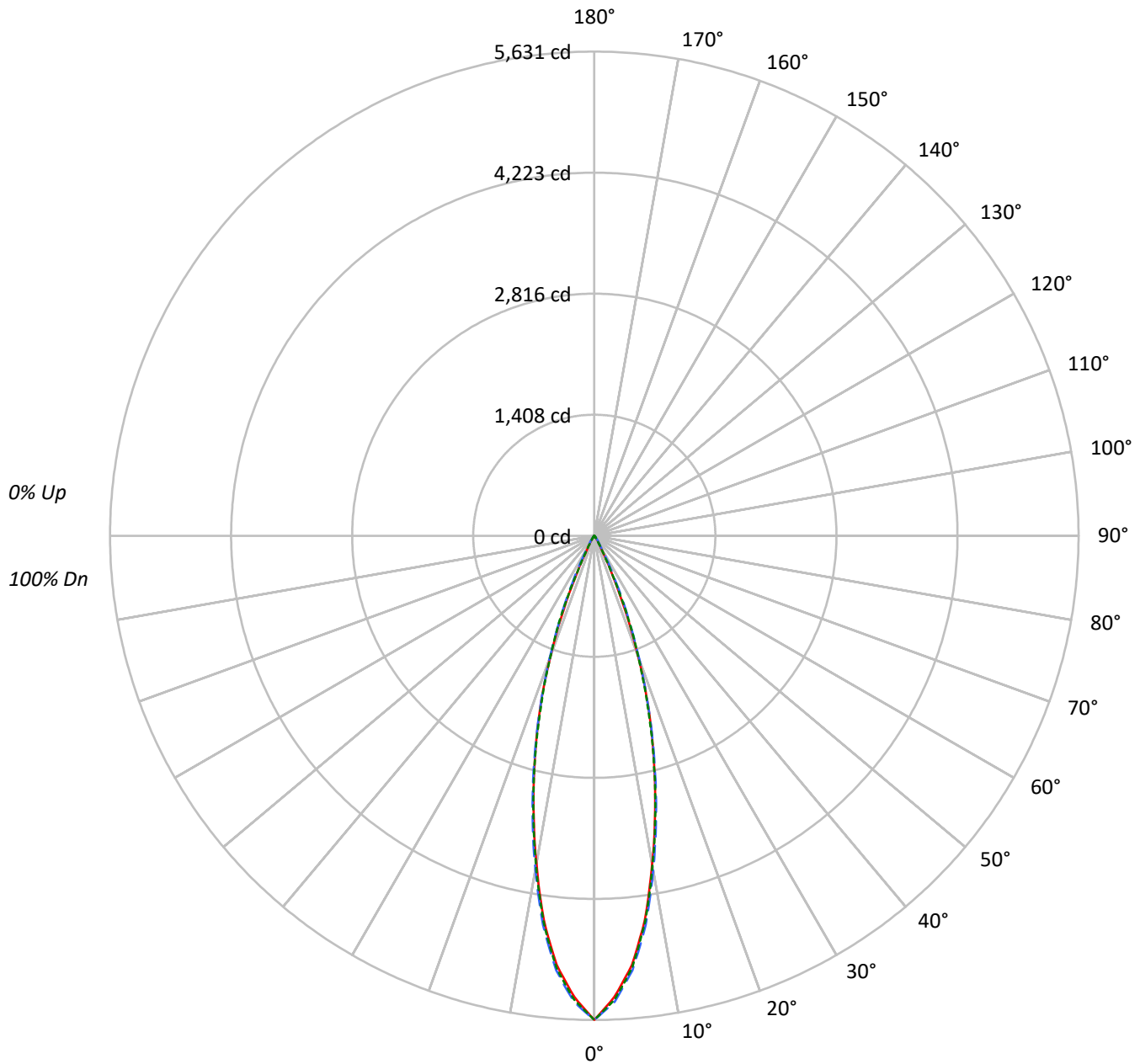
Lumens per Lamp: N/A
Luminaire Lumens: 1501.8 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	545476	545476	545476
5°	487161	493287	490224
10°	381331	388158	383406
15°	267782	269748	266318
20°	153691	156866	153557
25°	48656	64006	50228
30°	12920	16063	12461
35°	4388	7947	4470
40°	1948	3187	1948
45°	1055	1439	863
50°	633	754	422
55°	355	355	236
60°	271	271	136
65°	160	160	160
70°	198	198	198
75°	0	262	262
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	29.7
10°-20°	728.2	48.5
20°-30°	282.0	18.8
30°-40°	34.6	2.3
40°-50°	7.3	0.5
50°-60°	2.0	0.1
60°-70°	0.7	0.0
70°-80°	0.4	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°	1456.9	97.0
0°-40°	1491.4	99.3
0°-60°	1500.7	99.9
0°-90°	1501.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5631	5631	5631	5631	5631	
5°	5010	5082	5073	5042	5041	443
15°	2670	2706	2690	2670	2655	724
25°	455	570	599	588	470	255
35°	37	45	67	44	38	28
45°	8	8	10	8	6	6
55°	2	2	2	1	1	2
65°	1	1	1	1	1	1
75°	0	1	1	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5630.7	5630.7	5630.7	5630.7	5630.7
2.5°	5367.4	5442.3	5424.8	5389.9	5399.0
5°	5009.6	5082.4	5072.6	5041.8	5041.1
7.5°	4504.7	4576.1	4567.8	4530.6	4527.1
10°	3876.5	3941.7	3945.9	3892.0	3897.6
12.5°	3263.1	3316.4	3318.5	3281.4	3273.6
15°	2670.0	2705.8	2689.6	2670.0	2655.4
17.5°	2085.3	2093.1	2089.5	2060.8	2050.3
20°	1490.8	1524.4	1521.6	1497.2	1489.5
22.5°	928.5	989.4	1017.4	995.0	1006.9
25°	455.2	570.0	598.8	588.3	469.9
27.5°	184.8	241.6	301.1	238.1	178.6
30°	115.5	126.0	143.6	121.2	111.4
32.5°	60.9	76.3	97.3	74.2	60.9
35°	37.1	44.8	67.2	44.2	37.8
37.5°	23.8	28.0	39.2	28.0	24.6
40°	15.4	18.2	25.2	18.2	15.4
42.5°	10.5	11.9	16.1	11.9	9.8
45°	7.7	8.4	10.5	7.7	6.3
47.5°	5.6	6.3	7.0	5.0	4.2
50°	4.2	4.2	5.0	3.5	2.8
52.5°	2.8	3.5	3.5	2.1	2.1
55°	2.1	2.1	2.1	1.4	1.4
57.5°	2.1	1.4	1.4	1.4	1.4
60°	1.4	1.4	1.4	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.0
75°	0.0	0.7	0.7	0.7	0.7
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

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— 0°-180° - - 45°-225° - - - 90°-270°

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