

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: P1191872

Luminaire Tested: **LDA4A35927D010TE LAR15SP 4LAL1**

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: P1191872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26144)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A35927D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

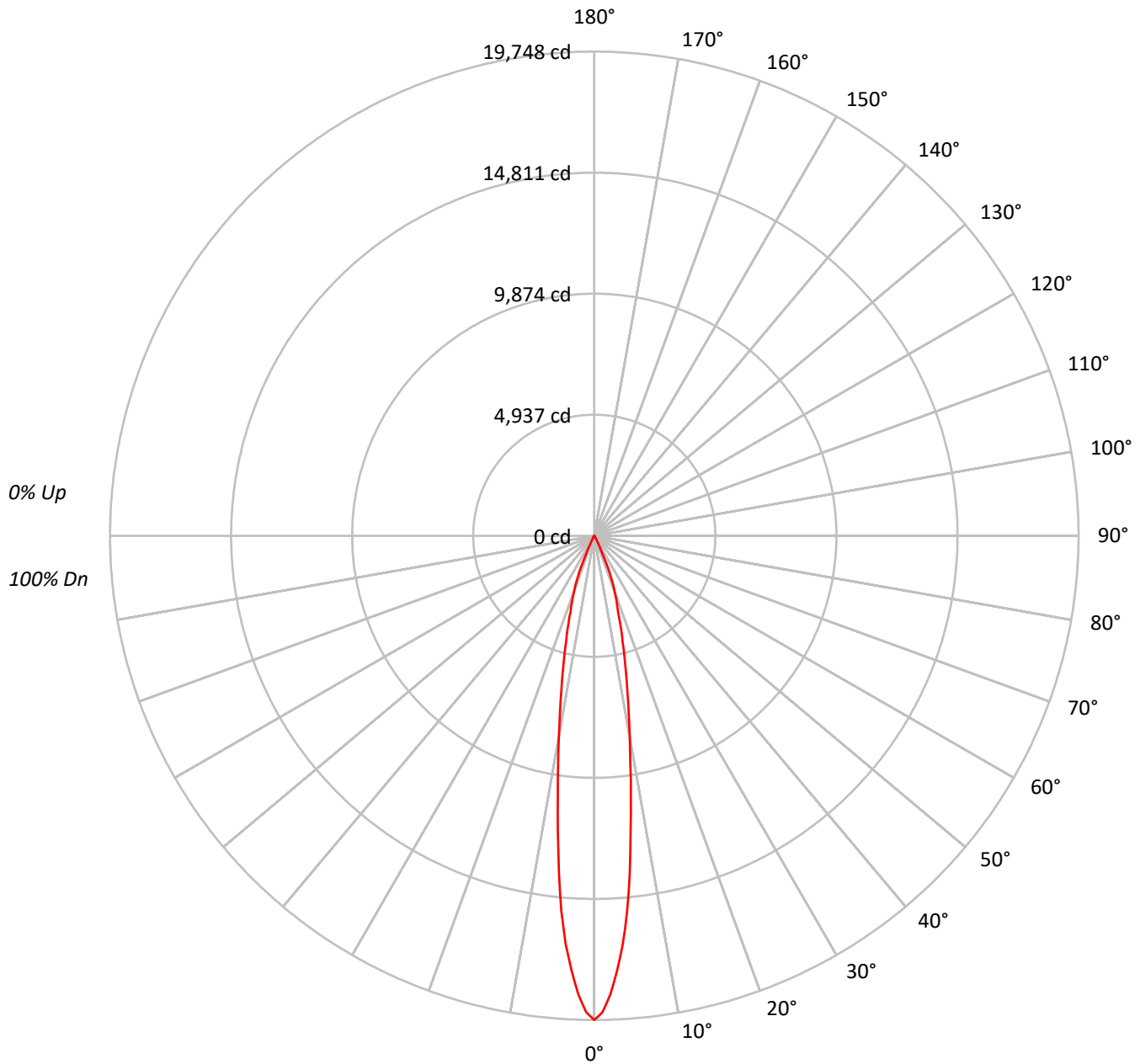
Lumens per Lamp: N/A
Luminaire Lumens: 2912.2 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	95
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92	92	92
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90	90	90
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	87	87
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	85	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	81	81	81
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79	79	79
10	91	85	81	79	90	85	81	79	84	81	79	83	81	79	83	80	78	78	78	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2435805
5°	1903795
10°	1039662
15°	567842
20°	319609
25°	81155
30°	15411
35°	5511
40°	2689
45°	1448
50°	326
55°	366
60°	419
65°	496
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1215.4	41.7
10°-20°	1263.3	43.4
20°-30°	396.3	13.6
30°-40°	27.9	1.0
40°-50°	6.5	0.2
50°-60°	1.5	0.1
60°-70°	1.5	0.1
70°-80°	0.0	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°	2874.9	98.7
0°-40°	2902.8	99.7
0°-60°	2910.8	99.9
0°-90°	2912.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2912.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19748	
5°	15376	###
15°	4447	1263
25°	596	396
35°	37	28
45°	8	6
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19747.8
1°	19433.0
2°	18715.1
3°	17759.1
4°	16701.6
5°	15375.9
6°	13807.0
7°	12166.4
8°	10690.8
9°	9406.8
10°	8300.8
11°	7333.2
12°	6483.8
13°	5732.7
14°	5056.4
15°	4446.8
17.5°	3211.1
20°	2434.9
22.5°	1657.2
25°	596.3
27.5°	199.8
30°	108.2
32.5°	60.0
35°	36.6
37.5°	25.0
40°	16.7
42.5°	11.6
45°	8.3
47.5°	5.0
50°	1.7
52.5°	1.7
55°	1.7
57.5°	1.7
60°	1.7
62.5°	1.7
65°	1.7
67.5°	1.7
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0

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Scaled Data Report



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180°

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85°	0.0
87.5°	0.0

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Scaled Data Report



(END OF REPORT)