

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: P1191566

Luminaire Tested: **LDA4A15940D010TE 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: P1191566
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: LDA4A15940D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

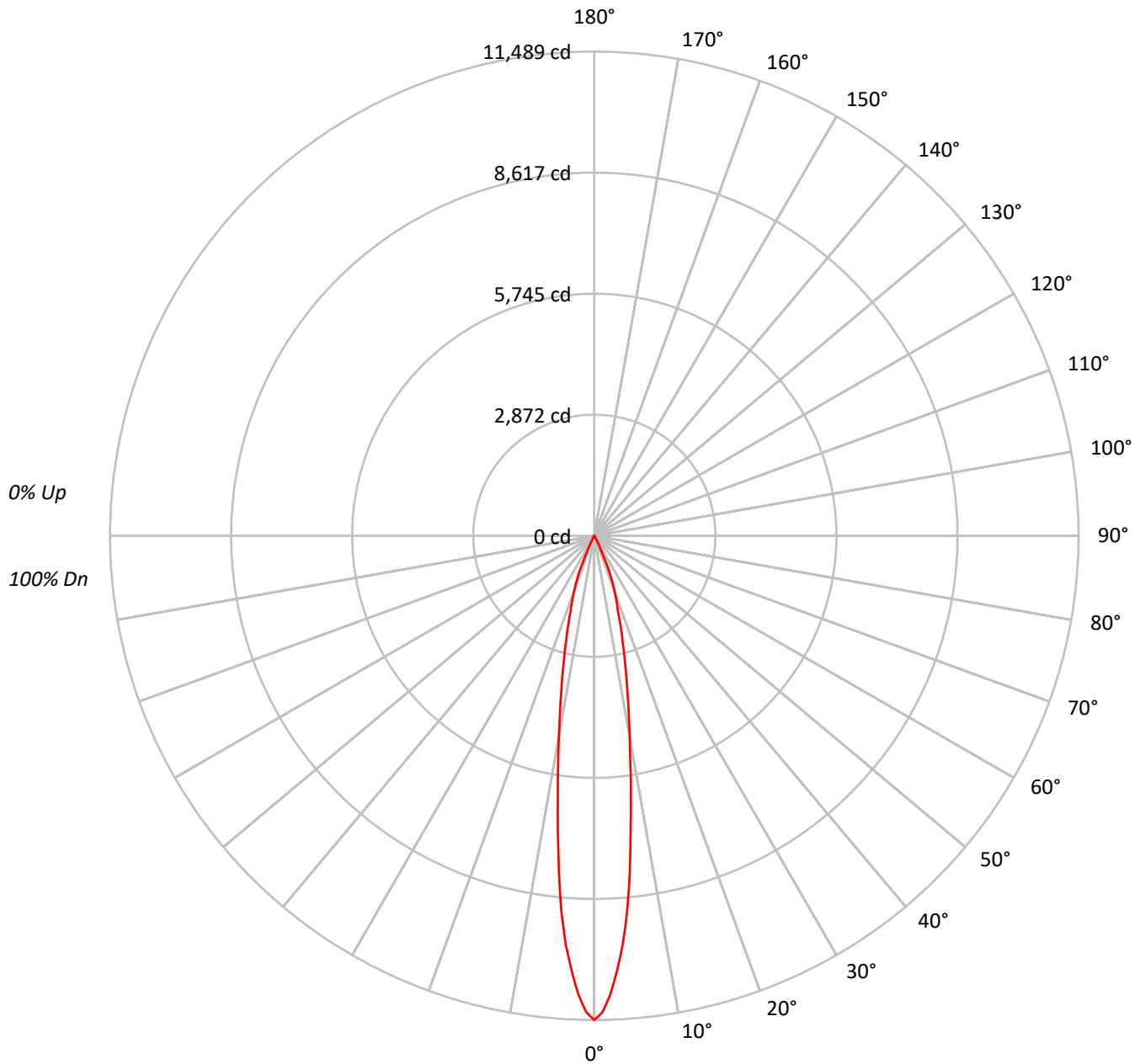
Lumens per Lamp: N/A
Luminaire Lumens: 1694.4 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	113	112	110	113	111	110	108		107	106	105			104	103	102			97
2	112	108	106	103	110	107	104	102		104	102	100			101	99	98			95
3	109	104	101	98	107	103	100	98		101	98	96			98	96	95			92
4	106	101	97	94	104	100	96	94		98	95	93			96	94	92			90
5	103	97	94	91	102	97	93	90		95	92	90			94	91	89			87
6	100	95	91	88	99	94	90	88		93	89	87			91	89	87			85
7	98	92	88	85	97	91	88	85		90	87	85			89	86	84			83
8	95	89	86	83	95	89	85	83		88	85	83			87	84	82			81
9	93	87	83	81	92	87	83	81		86	83	81			85	82	80			79
10	91	85	81	79	90	85	81	79		84	81	79			83	81	79			78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1417155
5°	1107640
10°	604887
15°	330377
20°	185958
25°	47212
30°	8973
35°	3207
40°	1562
45°	855
50°	192
55°	215
60°	247
65°	292
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.1	41.7
10°-20°	735.0	43.4
20°-30°	230.5	13.6
30°-40°	16.2	1.0
40°-50°	3.8	0.2
50°-60°	0.9	0.1
60°-70°	0.9	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°	1672.6	98.7
0°-40°	1688.9	99.7
0°-60°	1693.5	99.9
0°-90°	1694.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11489	
5°	8946	707
15°	2587	735
25°	347	231
35°	21	16
45°	5	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11489.3
1°	11306.2
2°	10888.7
3°	10332.4
4°	9717.0
5°	8945.8
6°	8032.9
7°	7078.5
8°	6220.0
9°	5472.8
10°	4829.5
11°	4266.6
12°	3772.2
13°	3335.3
14°	2941.9
15°	2587.2
17.5°	1868.2
20°	1416.7
22.5°	964.1
25°	346.9
27.5°	116.3
30°	63.0
32.5°	34.9
35°	21.3
37.5°	14.6
40°	9.7
42.5°	6.8
45°	4.9
47.5°	2.9
50°	1.0
52.5°	1.0
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	1.0
67.5°	1.0
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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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0

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Scaled Data Report

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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85°	0.0
87.5°	0.0

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Scaled Data Report



(END OF REPORT)