

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: P170592

Luminaire Tested: **LDA4A09840D010TE LAR15SP 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26141)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A09840D010TE LAR15SP 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1065.4 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

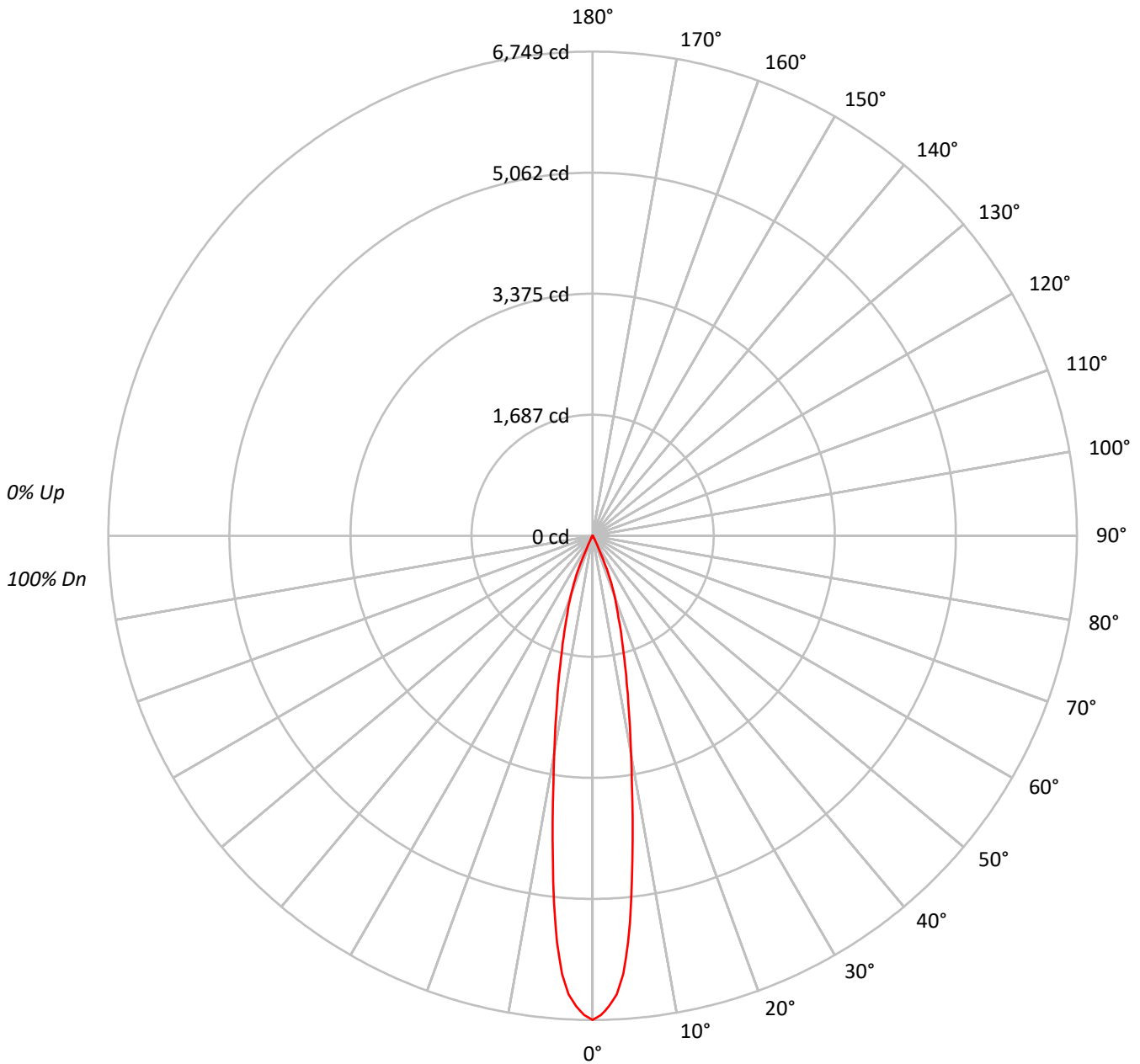
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	832435
5°	703837
10°	385715
15°	210546
20°	117295
25°	27097
30°	5241
35°	1506
40°	531
45°	192
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.6	42.0
10°-20°	468.3	44.0
20°-30°	140.4	13.2
30°-40°	8.1	0.8
40°-50°	0.9	0.1
50°-60°	0.0	0.0
60°-70°	0.0	0.0
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°	1056.3	99.1
0°-40°	1064.5	99.9
0°-60°	1065.4	100.0
0°-90°	1065.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6749	
5°	5684	448
15°	1649	468
25°	199	140
35°	10	8
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6748.8
1°	6682.4
2°	6562.5
3°	6401.8
4°	6124.1
5°	5684.5
6°	5140.7
7°	4548.8
8°	3998.9
9°	3496.3
10°	3079.6
11°	2718.7
12°	2398.0
13°	2120.7
14°	1872.5
15°	1648.8
17.5°	1198.1
20°	893.6
22.5°	589.0
25°	199.1
27.5°	69.2
30°	36.8
32.5°	18.4
35°	10.0
37.5°	5.6
40°	3.3
42.5°	1.7
45°	1.1
47.5°	0.6
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
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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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)