

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: P170615

Luminaire Tested: **LDA4A18835D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26142)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A18835D010TE LAR25NF 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2070.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

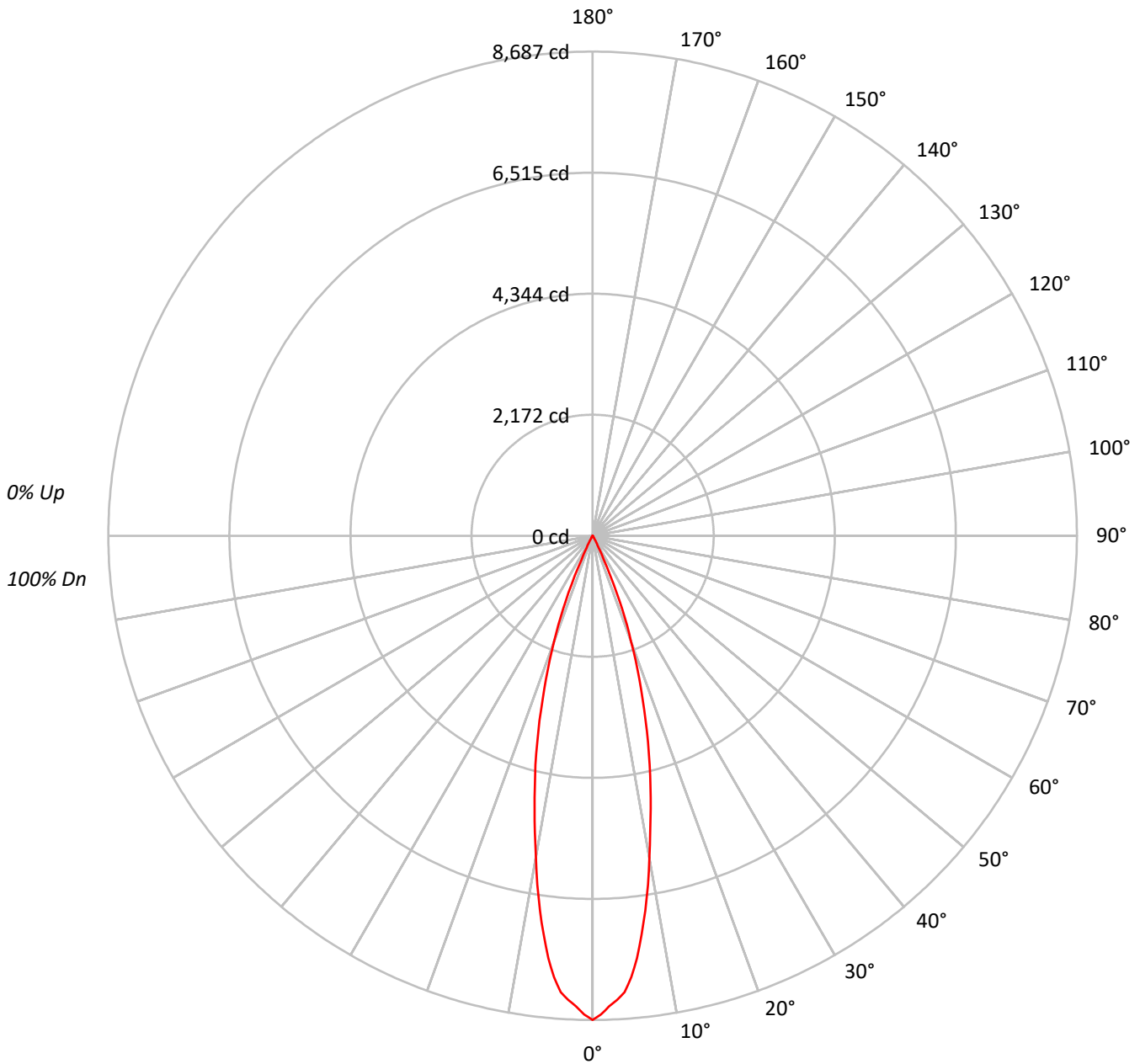
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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									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	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	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	98	96	95	94	94	92	91	91	89	89	87	86															
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	95	94	92	91	89	89	87	86	84	84	82	81															
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	93	91	89	88	87	86	84	84	82	81	79	79															
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	91	89	87	86	84	84	82	81	79	77	77	76															
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	91	89	87	86	84	84	82	81	79	77	76	76															
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83	81	81	79	77	76	76	75	74															
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	86	84	82	81	79	77	76	76	75	74	74	73															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80	79	77	76	76	75	74	73	73	72															
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	82	79	77	76	76	75	74	73	73	72	72	71															
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	80	77	75	74	74	73	73	72	72	71	71	70															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1071528
5°	984022
10°	735058
15°	489615
20°	265227
25°	63271
30°	14812
35°	4216
40°	1449
45°	523
50°	192
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°	688.7	33.3
10°-20°	1038.5	50.2
20°-30°	317.1	15.3
30°-40°	22.9	1.1
40°-50°	2.6	0.1
50°-60°	0.1	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°	2044.4	98.8
0°-40°	2067.3	99.9
0°-60°	2070.0	100.0
0°-90°	2070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8687	
5°	7947	689
15°	3834	1039
25°	465	317
35°	28	23
45°	3	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8687.2
1°	8589.2
2°	8448.2
3°	8342.3
4°	8207.3
5°	7947.4
6°	7620.4
7°	7211.5
8°	6789.6
9°	6339.7
10°	5868.8
11°	5419.9
12°	5009.0
13°	4615.0
14°	4235.1
15°	3834.2
17.5°	2880.4
20°	2020.6
22.5°	1260.7
25°	464.9
27.5°	188.0
30°	104.0
32.5°	52.0
35°	28.0
37.5°	16.0
40°	9.0
42.5°	5.0
45°	3.0
47.5°	1.0
50°	1.0
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)