

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: P170639

Luminaire Tested: **LDA4A28835D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170639
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: LDA4A28835D010TE 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: 3241.2 lumens
Efficiency: N/A
Efficacy: 72.9 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

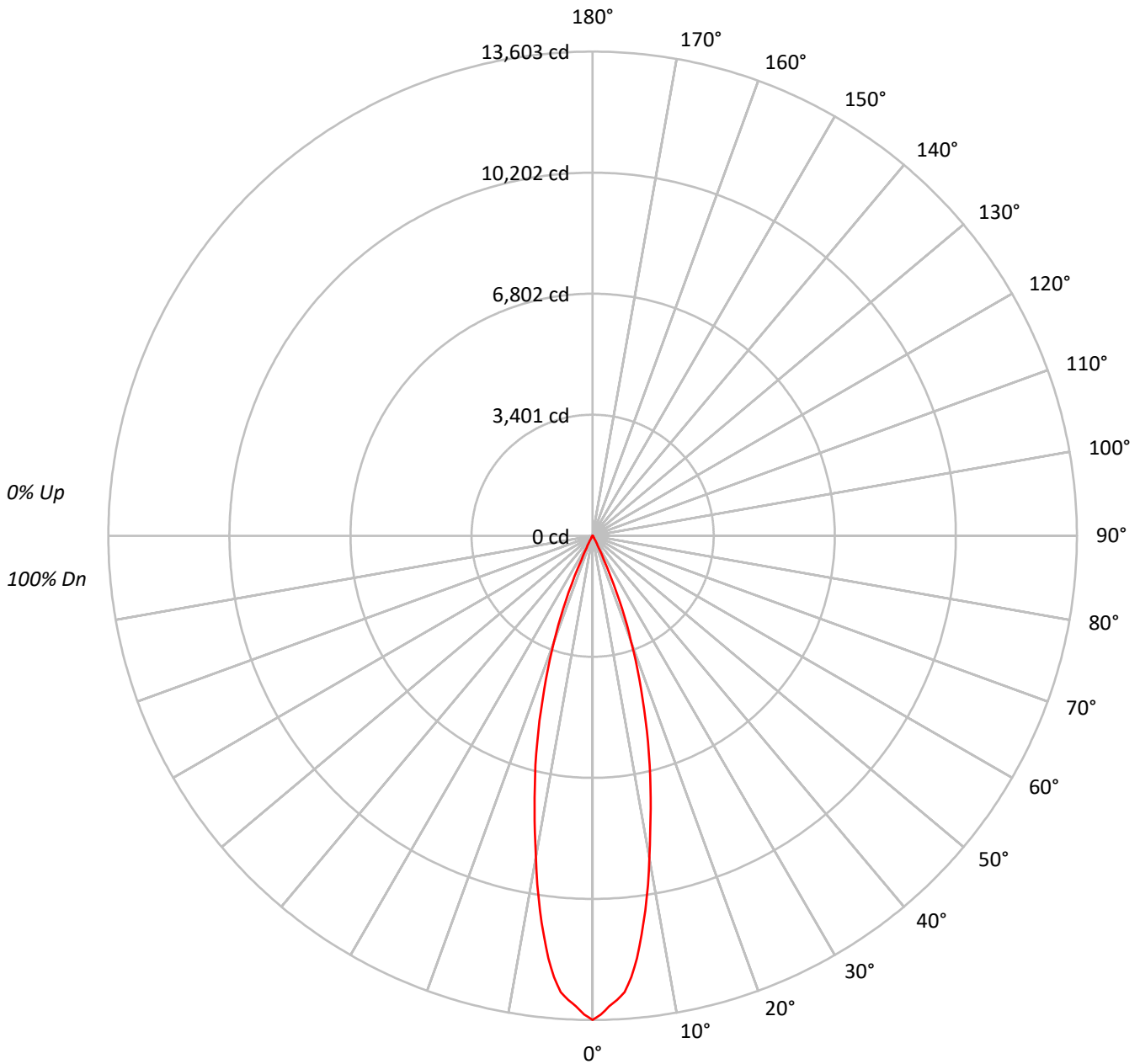
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	88									
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	95	94	92	91	89	88	86	84	83	81									
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91	93	91	89	88	86	84	83	81	79	76									
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88	91	89	87	86	84	83	81	79	76	74									
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86	91	89	87	86	84	83	81	79	76	74									
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83	89	86	84	83	81	79	76	74	72	70									
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81	86	84	82	81	79	76	74	72	70	68									
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80	79	76	74	72	70	68	66									
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76	82	79	77	76	74	72	70	68	66	64									
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74	80	77	75	74	72	70	68	66	64	62									

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1677821
5°	1540788
10°	1150970
15°	766653
20°	415299
25°	99079
30°	23187
35°	6595
40°	2270
45°	820
50°	307
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°	1078.4	33.3
10°-20°	1626.2	50.2
20°-30°	496.5	15.3
30°-40°	35.8	1.1
40°-50°	4.1	0.1
50°-60°	0.2	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°	3201.1	98.8
0°-40°	3237.0	99.9
0°-60°	3241.2	100.0
0°-90°	3241.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3241.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13603	
5°	12444	###
15°	6004	1626
25°	728	497
35°	44	36
45°	5	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13602.6
1°	13449.2
2°	13228.4
3°	13062.5
4°	12851.1
5°	12444.1
6°	11932.2
7°	11291.9
8°	10631.3
9°	9926.8
10°	9189.5
11°	8486.5
12°	7843.1
13°	7226.3
14°	6631.4
15°	6003.7
17.5°	4510.2
20°	3163.9
22.5°	1974.1
25°	728.0
27.5°	294.3
30°	162.8
32.5°	81.4
35°	43.8
37.5°	25.0
40°	14.1
42.5°	7.8
45°	4.7
47.5°	1.6
50°	1.6
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)