

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: P170543

Luminaire Tested: **LDA4A28835D010TE LAR25NF 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26145)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A28835D010TE LAR25NF 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, 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

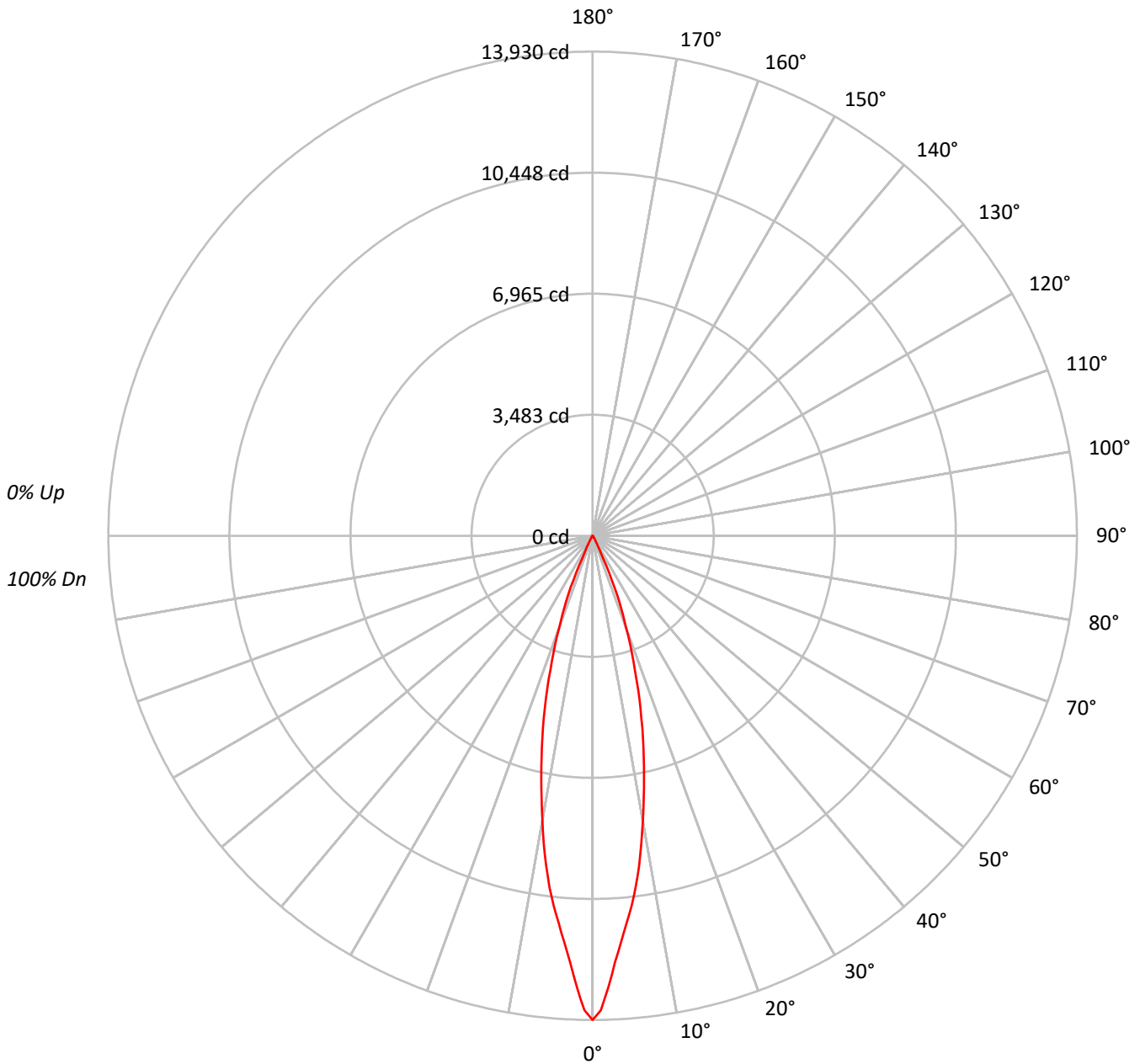
Lumens per Lamp: N/A
Luminaire Lumens: 2954.7 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.45
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				70				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	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	91	91	91	91
4	105	100	96	93	103	98	95	92	97	94	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	84	82	81	81	81	81
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78	78	78	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	76	76	76
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74	74	74	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1718266
5°	1385956
10°	1041729
15°	692398
20°	371379
25°	93975
30°	22304
35°	7303
40°	3027
45°	1361
50°	595
55°	344
60°	395
65°	467
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.9	33.3
10°-20°	1466.2	49.6
20°-30°	458.0	15.5
30°-40°	37.5	1.3
40°-50°	6.5	0.2
50°-60°	1.6	0.1
60°-70°	1.0	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°	2908.1	98.4
0°-40°	2945.7	99.7
0°-60°	2953.8	100.0
0°-90°	2954.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13930	
5°	11194	984
15°	5422	1466
25°	690	458
35°	48	38
45°	8	7
55°	2	2
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13930.5
1°	13654.9
2°	12989.5
3°	12291.2
4°	11715.0
5°	11193.6
6°	10706.6
7°	10182.1
8°	9587.1
9°	8970.2
10°	8317.3
11°	7692.5
12°	7105.4
13°	6538.6
14°	5978.0
15°	5422.2
17.5°	4042.8
20°	2829.3
22.5°	1833.5
25°	690.5
27.5°	275.6
30°	156.6
32.5°	83.0
35°	48.5
37.5°	29.7
40°	18.8
42.5°	11.0
45°	7.8
47.5°	4.7
50°	3.1
52.5°	1.6
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
65°	1.6
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)