

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: P170511

Luminaire Tested: **LDA4A28835D010TE LAR15SP 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170511
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: LDA4A28835D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
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: 2738.7 lumens
Efficiency: N/A
Efficacy: 61.6 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

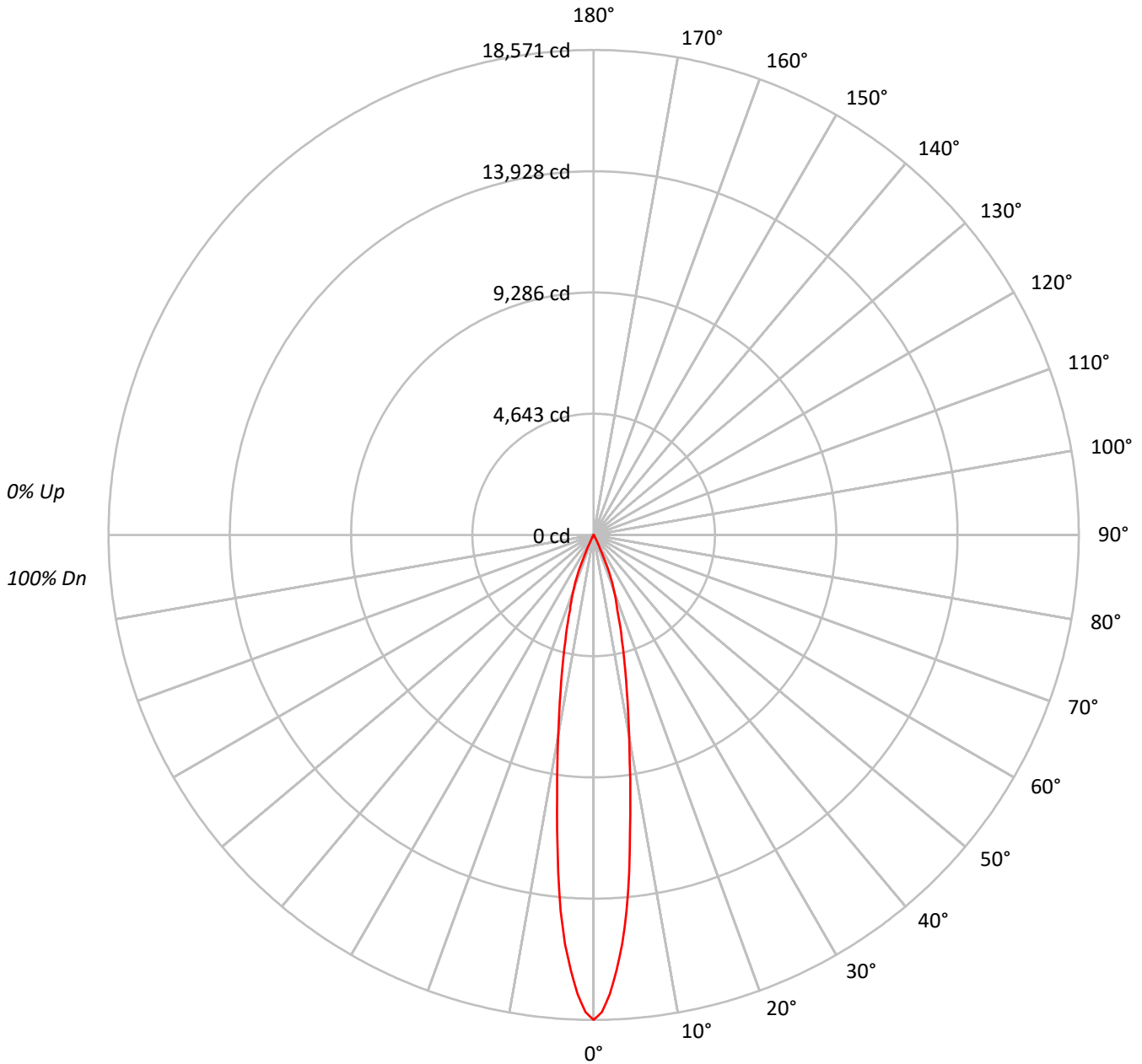
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2290627
5°	1790316
10°	977702
15°	534002
20°	300563
25°	76309
30°	14499
35°	5195
40°	2528
45°	1361
50°	307
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°	1142.9	41.7
10°-20°	1188.0	43.4
20°-30°	372.6	13.6
30°-40°	26.2	1.0
40°-50°	6.1	0.2
50°-60°	1.4	0.1
60°-70°	1.4	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°	2703.6	98.7
0°-40°	2729.8	99.7
0°-60°	2737.3	99.9
0°-90°	2738.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18571	
5°	14459	###
15°	4182	1188
25°	561	373
35°	34	26
45°	8	6
55°	2	1
65°	2	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18570.8
1°	18274.8
2°	17599.7
3°	16700.7
4°	15706.1
5°	14459.4
6°	12984.0
7°	11441.3
8°	10053.6
9°	8846.1
10°	7806.1
11°	6896.1
12°	6097.3
13°	5391.0
14°	4755.1
15°	4181.8
17.5°	3019.7
20°	2289.8
22.5°	1558.4
25°	560.7
27.5°	187.9
30°	101.8
32.5°	56.4
35°	34.5
37.5°	23.5
40°	15.7
42.5°	11.0
45°	7.8
47.5°	4.7
50°	1.6
52.5°	1.6
55°	1.6
57.5°	1.6
60°	1.6
62.5°	1.6
65°	1.6
67.5°	1.6
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)