

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: P170493

Luminaire Tested: **LDA4A09827D010TE LAR15SP 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170493
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: LDA4A09827D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 835.9 lumens
Efficiency: N/A
Efficacy: 60.4 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

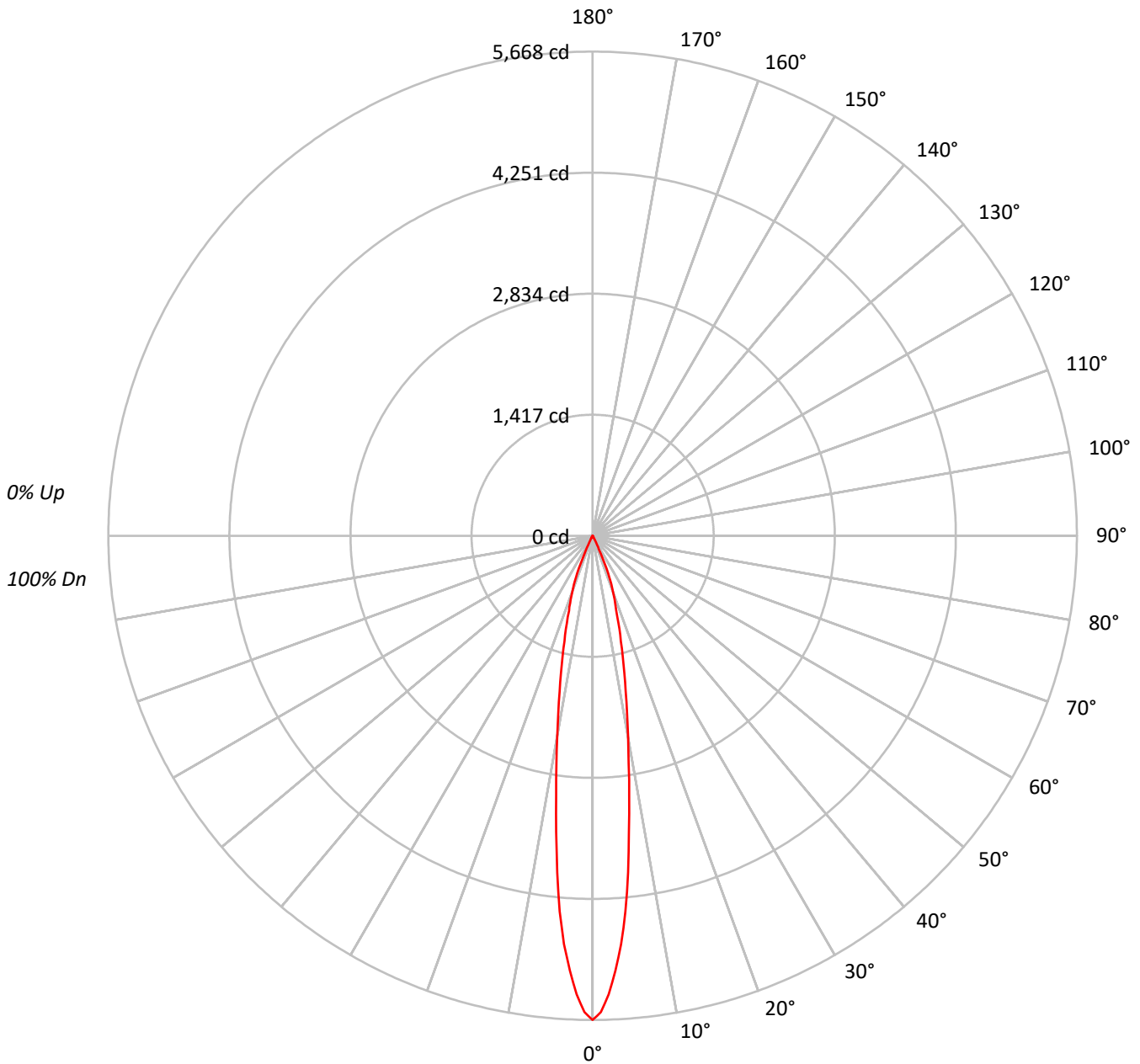
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	94	92
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92	92	91	90
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90	88	87	85
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	86	85	83
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	84	83	81
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	82	81	79
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	81	80	79	78
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79	78	77	76
10	91	85	81	79	90	85	81	79	84	81	79	83	81	79	83	80	78	77	76	75	74

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	699111
5°	546416
10°	298404
15°	162979
20°	91739
25°	23286
30°	4429
35°	1581
40°	773
45°	419
50°	96
55°	108
60°	123
65°	146
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	41.7
10°-20°	362.6	43.4
20°-30°	113.7	13.6
30°-40°	8.0	1.0
40°-50°	1.8	0.2
50°-60°	0.4	0.1
60°-70°	0.4	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°	825.1	98.7
0°-40°	833.2	99.7
0°-60°	835.4	99.9
0°-90°	835.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	835.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5668	
5°	4413	349
15°	1276	363
25°	171	114
35°	10	8
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5667.9
1°	5577.6
2°	5371.6
3°	5097.2
4°	4793.6
5°	4413.1
6°	3962.8
7°	3492.0
8°	3068.4
9°	2699.9
10°	2382.5
11°	2104.7
12°	1860.9
13°	1645.4
14°	1451.3
15°	1276.3
17.5°	921.6
20°	698.9
22.5°	475.6
25°	171.1
27.5°	57.4
30°	31.1
32.5°	17.2
35°	10.5
37.5°	7.2
40°	4.8
42.5°	3.3
45°	2.4
47.5°	1.4
50°	0.5
52.5°	0.5
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.5
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)