

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: P170513

Luminaire Tested: **LDA4A28927D010TE LAR15SP 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170513
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: LDA4A28927D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.5 lumens
Efficiency: N/A
Efficacy: 43.4 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

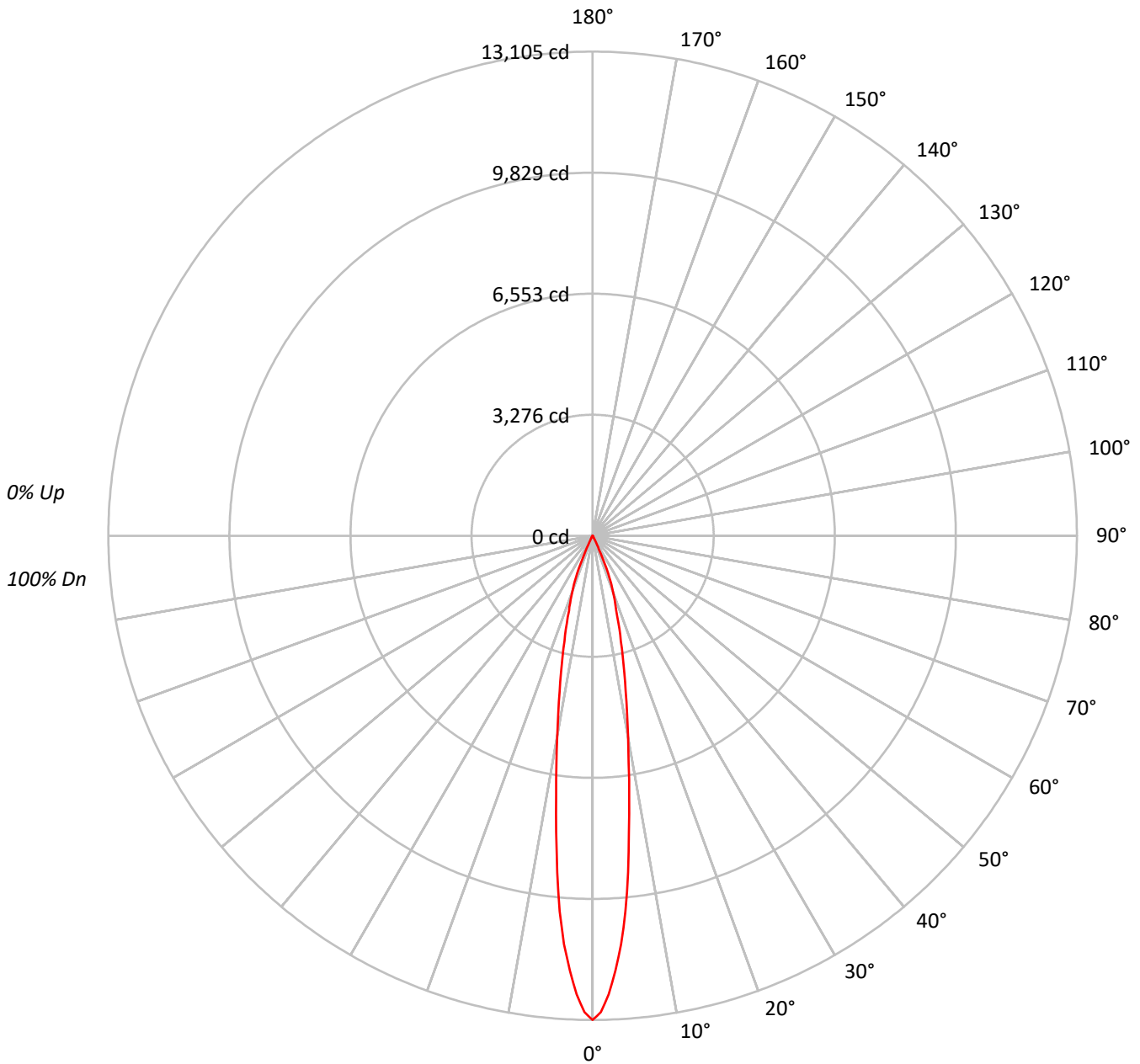
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P170513

CATALOG NUMBER: LDA4A28927D010TE LAR15SP 4LAL1

Luminous Intensity Polar Plot





TEST NUMBER: P170513

CATALOG NUMBER: LDA4A28927D010TE LAR15SP 4LAL1

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	93	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	87
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	86	85	85
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	84	83	83
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	82	81	81
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	81	80	79	79
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79	78	78	78
10	91	85	81	79	90	85	81	79	84	81	79	83	81	79	83	80	78	78	78	78	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1616395
5°	1263352
10°	689918
15°	376820
20°	212093
25°	53854
30°	10226
35°	3659
40°	1787
45°	959
50°	211
55°	237
60°	271
65°	321
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P170513

CATALOG NUMBER: LDA4A28927D010TE LAR15SP 4LAL1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.5	41.7
10°-20°	838.3	43.4
20°-30°	263.0	13.6
30°-40°	18.5	1.0
40°-50°	4.3	0.2
50°-60°	1.0	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°	1907.8	98.7
0°-40°	1926.3	99.7
0°-60°	1931.6	100.0
0°-90°	1932.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13105	
5°	10203	807
15°	2951	838
25°	396	263
35°	24	19
45°	6	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P170513

CATALOG NUMBER: LDA4A28927D010TE LAR15SP 4LAL1

CANDELA DISTRIBUTION (FULL):

	0°
0°	13104.6
1°	12895.7
2°	12419.3
3°	11784.9
4°	11083.1
5°	10203.4
6°	9162.3
7°	8073.6
8°	7094.4
9°	6242.3
10°	5508.4
11°	4866.3
12°	4302.6
13°	3804.2
14°	3355.4
15°	2950.9
17.5°	2130.9
20°	1615.8
22.5°	1099.7
25°	395.7
27.5°	132.6
30°	71.8
32.5°	39.8
35°	24.3
37.5°	16.6
40°	11.1
42.5°	7.7
45°	5.5
47.5°	3.3
50°	1.1
52.5°	1.1
55°	1.1
57.5°	1.1
60°	1.1
62.5°	1.1
65°	1.1
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P170513

CATALOG NUMBER: LDA4A28927D010TE LAR15SP 4LAL1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)