

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: P170505

Luminaire Tested: **LDA4A13927D010TE LAR15SP 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170505
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: LDA4A13927D010TE 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: 996.2 lumens
Efficiency: N/A
Efficacy: 44.7 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

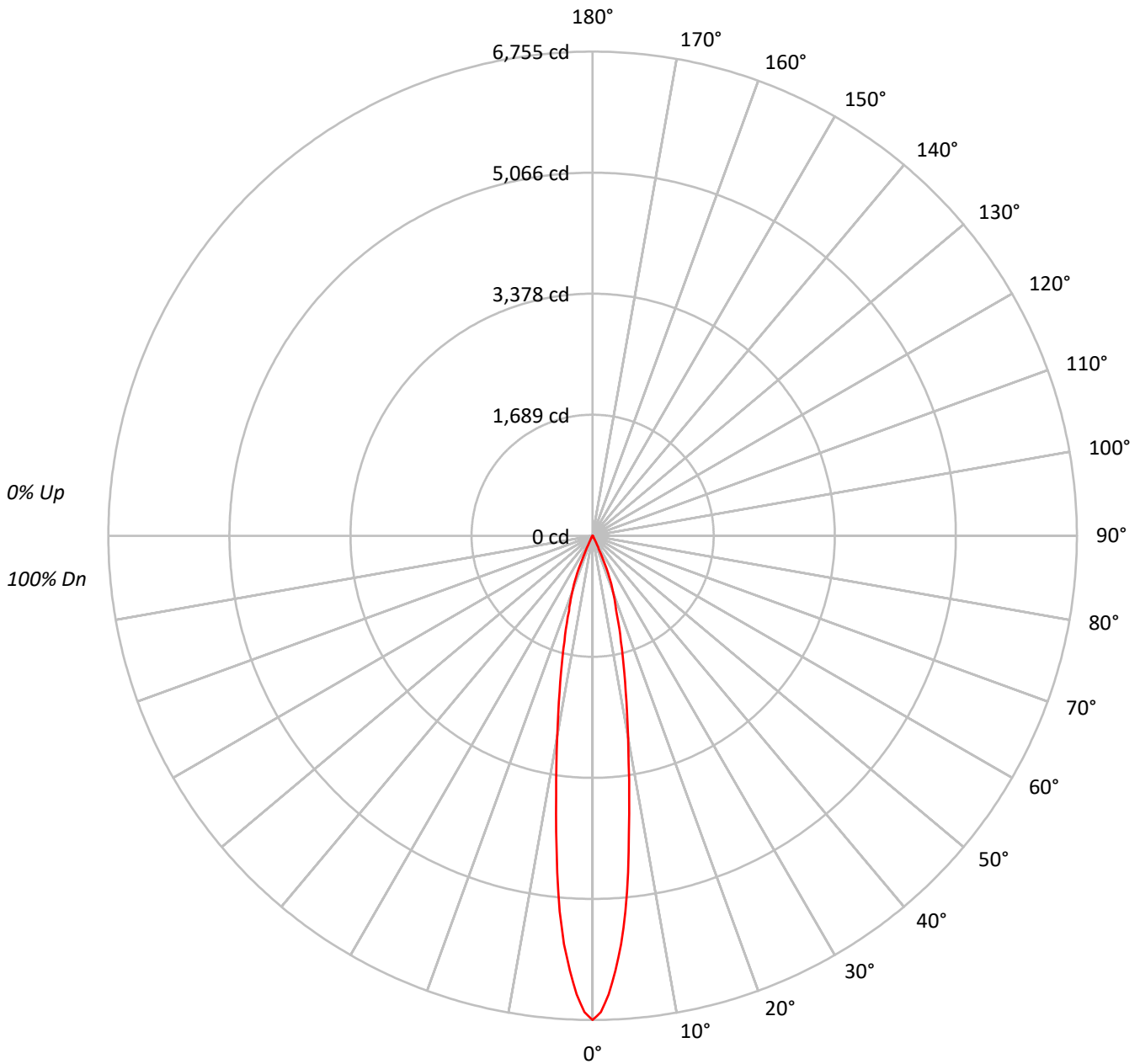
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	833224
5°	651239
10°	355643
15°	194252
20°	109328
25°	27764
30°	5270
35°	1882
40°	918
45°	488
50°	115
55°	129
60°	148
65°	175
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.7	41.7
10°-20°	432.1	43.4
20°-30°	135.6	13.6
30°-40°	9.5	1.0
40°-50°	2.2	0.2
50°-60°	0.5	0.1
60°-70°	0.5	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°	983.4	98.7
0°-40°	993.0	99.7
0°-60°	995.7	99.9
0°-90°	996.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6755	
5°	5260	416
15°	1521	432
25°	204	136
35°	12	10
45°	3	2
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6755.2
1°	6647.5
2°	6402.0
3°	6075.0
4°	5713.2
5°	5259.7
6°	4723.0
7°	4161.8
8°	3657.1
9°	3217.8
10°	2839.5
11°	2508.5
12°	2217.9
13°	1961.0
14°	1729.7
15°	1521.2
17.5°	1098.4
20°	832.9
22.5°	566.9
25°	204.0
27.5°	68.4
30°	37.0
32.5°	20.5
35°	12.5
37.5°	8.5
40°	5.7
42.5°	4.0
45°	2.8
47.5°	1.7
50°	0.6
52.5°	0.6
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
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)