

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: P170449

Luminaire Tested: **LDA4A28927D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25629)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A28927D010TE LAR25NF 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 25° Narrow Flood 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: 1913.7 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.45
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

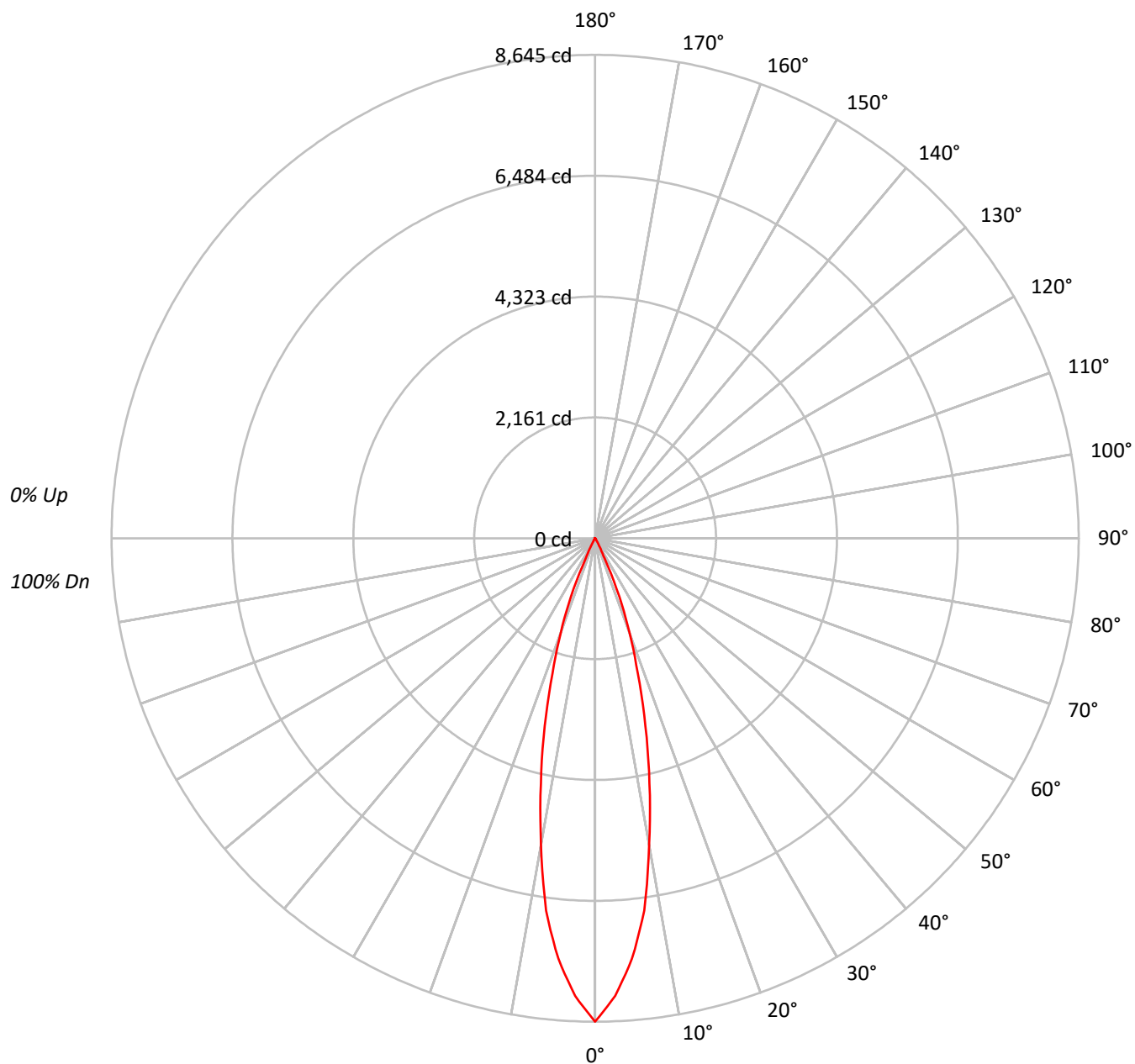
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	113	111	110	113	111	109	108		107	106	105			103	102	101			100
2	112	108	105	103	109	106	104	102		103	101	99			100	99	97			98
3	108	104	100	97	106	102	99	97		100	97	95			98	96	94			96
4	105	100	96	93	103	99	95	93		97	94	92			95	93	91			93
5	102	96	92	89	101	95	92	89		94	91	88			92	90	88			91
6	99	93	89	86	98	93	89	86		91	88	85			90	87	85			89
7	97	90	86	83	95	90	86	83		89	85	83			88	85	83			87
8	94	88	84	81	93	87	83	81		86	83	81			85	82	80			85
9	92	85	81	79	91	85	81	79		84	81	78			83	80	78			83
10	89	83	79	76	89	83	79	76		82	79	76			81	78	76			81

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1066372
5°	934755
10°	697208
15°	443516
20°	235195
25°	53078
30°	12747
35°	3659
40°	1240
45°	384
50°	211
55°	237
60°	271
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.4	34.5
10°-20°	948.9	49.6
20°-30°	280.6	14.7
30°-40°	19.9	1.0
40°-50°	2.3	0.1
50°-60°	1.0	0.1
60°-70°	0.7	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°	1889.9	98.8
0°-40°	1909.8	99.8
0°-60°	1913.1	100.0
0°-90°	1913.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8645	
5°	7550	660
15°	3473	949
25°	390	281
35°	24	20
45°	2	2
55°	1	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8645.4
2.5°	8191.3
5°	7549.5
7.5°	6715.5
10°	5566.6
12.5°	4486.2
15°	3473.2
17.5°	2530.9
20°	1791.8
22.5°	1134.5
25°	390.0
27.5°	170.1
30°	89.5
32.5°	45.3
35°	24.3
37.5°	14.4
40°	7.7
42.5°	4.4
45°	2.2
47.5°	1.1
50°	1.1
52.5°	1.1
55°	1.1
57.5°	1.1
60°	1.1
62.5°	1.1
65°	0.0
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)