

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: P170535

Luminaire Tested: **LDA4A13835D010TE LAR25NF 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26145)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13835D010TE LAR25NF 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 25° Narrow Flood 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: 1523.1 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.45
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

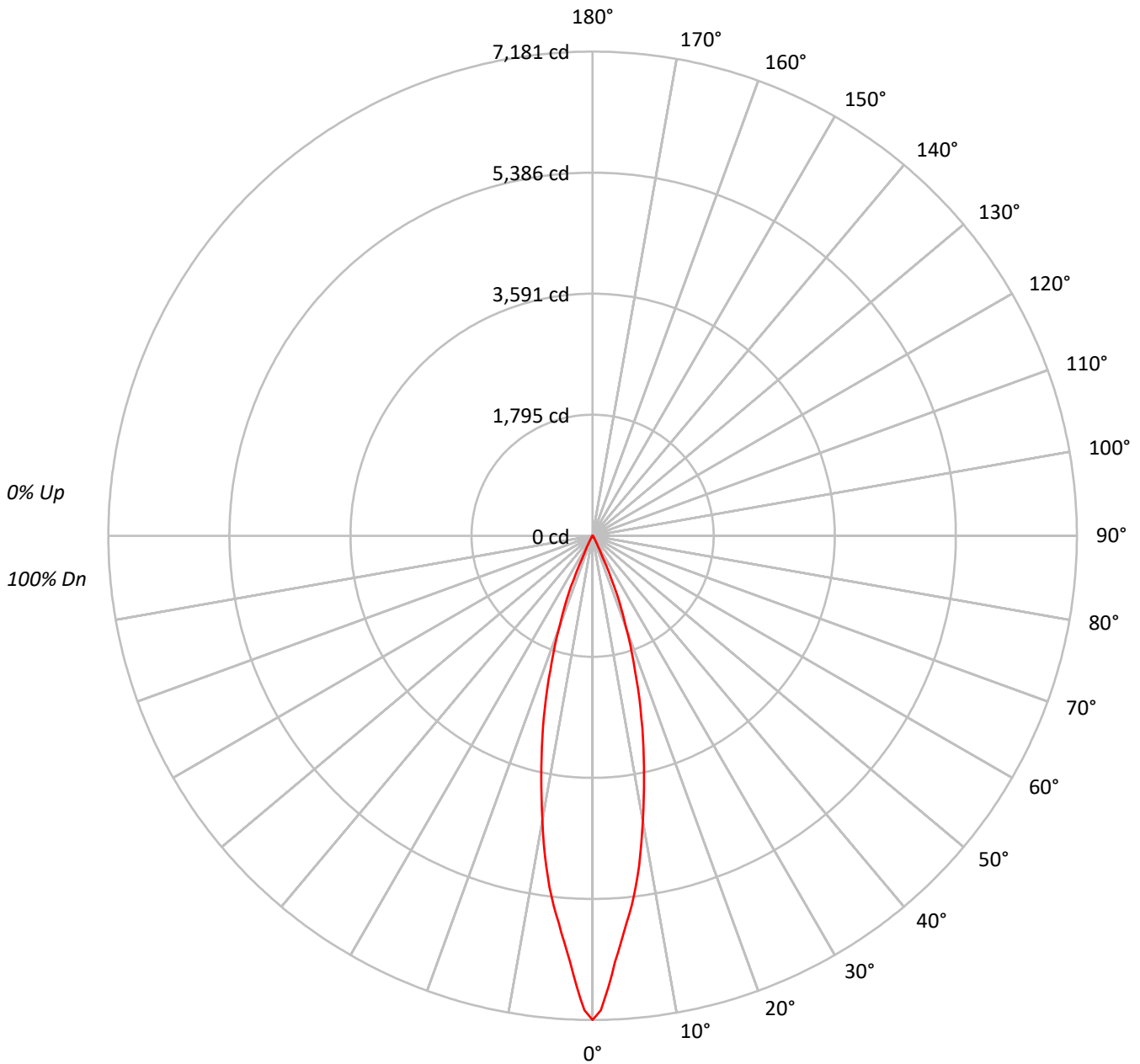
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	885745
5°	714435
10°	536990
15°	356925
20°	191445
25°	48437
30°	11494
35°	3764
40°	1562
45°	698
50°	307
55°	172
60°	197
65°	233
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.2	33.3
10°-20°	755.8	49.6
20°-30°	236.1	15.5
30°-40°	19.4	1.3
40°-50°	3.3	0.2
50°-60°	0.8	0.1
60°-70°	0.5	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°	1499.1	98.4
0°-40°	1518.4	99.7
0°-60°	1522.6	100.0
0°-90°	1523.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7181	
5°	5770	507
15°	2795	756
25°	356	236
35°	25	19
45°	4	3
55°	1	1
65°	1	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7181.0
1°	7038.9
2°	6695.9
3°	6335.9
4°	6038.9
5°	5770.1
6°	5519.1
7°	5248.7
8°	4942.0
9°	4624.0
10°	4287.4
11°	3965.4
12°	3662.7
13°	3370.6
14°	3081.6
15°	2795.1
17.5°	2084.0
20°	1458.5
22.5°	945.1
25°	355.9
27.5°	142.1
30°	80.7
32.5°	42.8
35°	25.0
37.5°	15.3
40°	9.7
42.5°	5.6
45°	4.0
47.5°	2.4
50°	1.6
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8
67.5°	0.0
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)