

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: P170446

Luminaire Tested: **LDA4A28830D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170446
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: LDA4A28830D010TE LAR25NF 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.7 lumens
Efficiency: N/A
Efficacy: 58.0 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

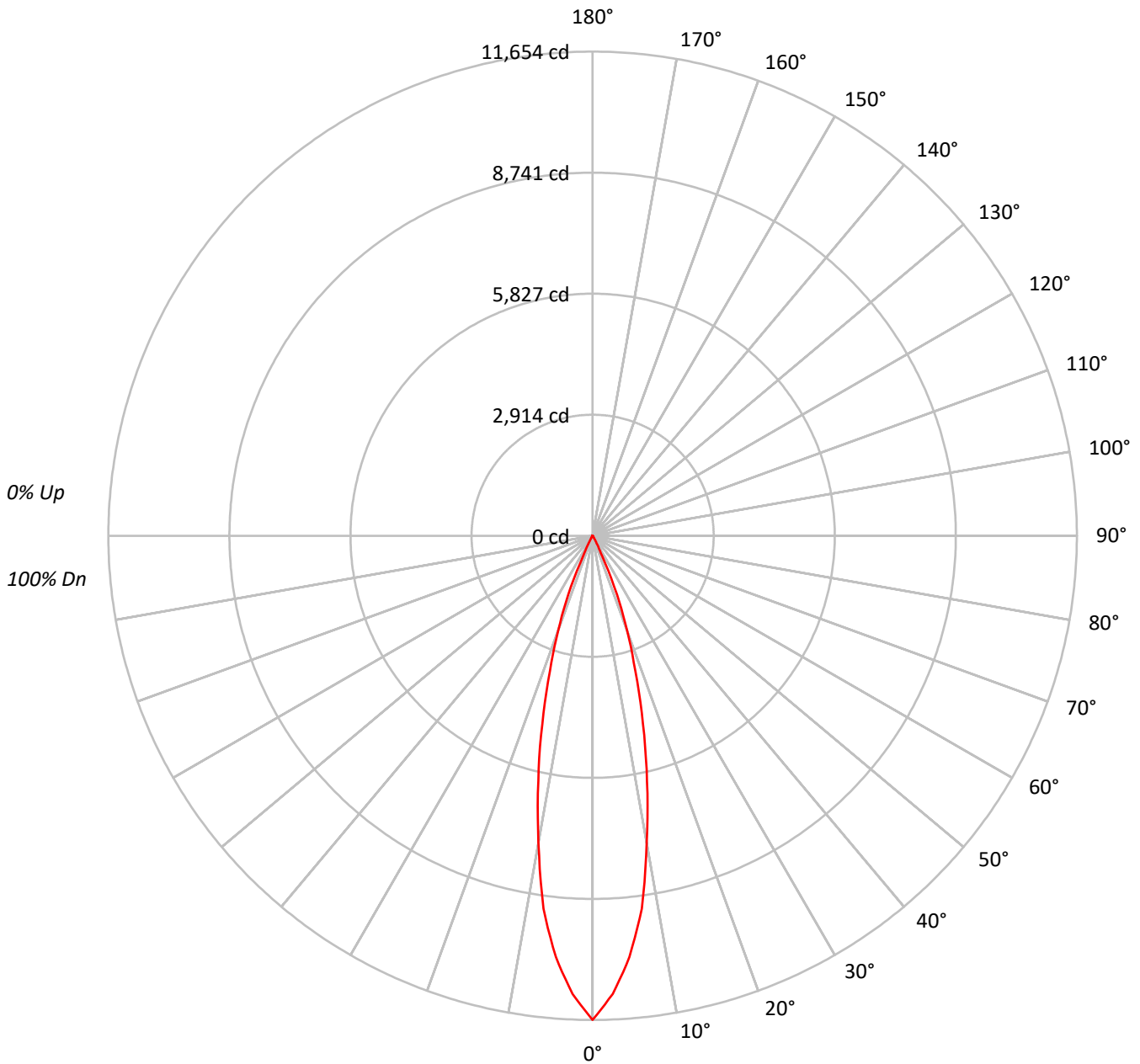
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	98	96	95	94	94	92	91	91	90	88																	
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	94	96	94	92	91	90	88	86	85	83	81																		
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	90	88	86	85	83	81	79	77																			
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88	86	85	83	81	79	77	75																				
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86	85	83	81	79	77	75	73																				
6	99	93	89	86	98	93	89	86	91	88	85	90	87	85	89	86	84	83	81	79	77	75	73	71																					
7	97	90	86	83	95	90	86	83	89	85	83	88	85	83	87	84	82	81	79	77	75	73	71	69																					
8	94	88	84	81	93	87	83	81	86	83	81	85	82	80	85	82	80	79	77	75	73	71	69	67																					
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77	75	73	71	69	67	65																					
10	89	83	79	76	89	83	79	76	82	79	76	81	78	76	81	78	76	75	73	71	69	67	65	63																					

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1437408
5°	1259997
10°	939789
15°	597825
20°	317036
25°	71532
30°	17177
35°	4939
40°	1675
45°	523
50°	288
55°	323
60°	370
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.2	34.5
10°-20°	1279.0	49.6
20°-30°	378.2	14.7
30°-40°	26.9	1.0
40°-50°	3.1	0.1
50°-60°	1.3	0.1
60°-70°	0.9	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°	2547.4	98.8
0°-40°	2574.3	99.8
0°-60°	2578.7	100.0
0°-90°	2579.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11654	
5°	10176	890
15°	4682	1279
25°	526	378
35°	33	27
45°	3	3
55°	2	1
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11653.5
2.5°	11041.5
5°	10176.3
7.5°	9052.1
10°	7503.4
12.5°	6047.1
15°	4681.6
17.5°	3411.5
20°	2415.3
22.5°	1529.3
25°	525.6
27.5°	229.3
30°	120.6
32.5°	61.1
35°	32.8
37.5°	19.4
40°	10.4
42.5°	6.0
45°	3.0
47.5°	1.5
50°	1.5
52.5°	1.5
55°	1.5
57.5°	1.5
60°	1.5
62.5°	1.5
65°	0.0
67.5°	1.5
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)