

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: P170436

Luminaire Tested: **LDA4A09940D010TE LAR25NF 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170436
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: LDA4A09940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 829.1 lumens
Efficiency: N/A
Efficacy: 59.9 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

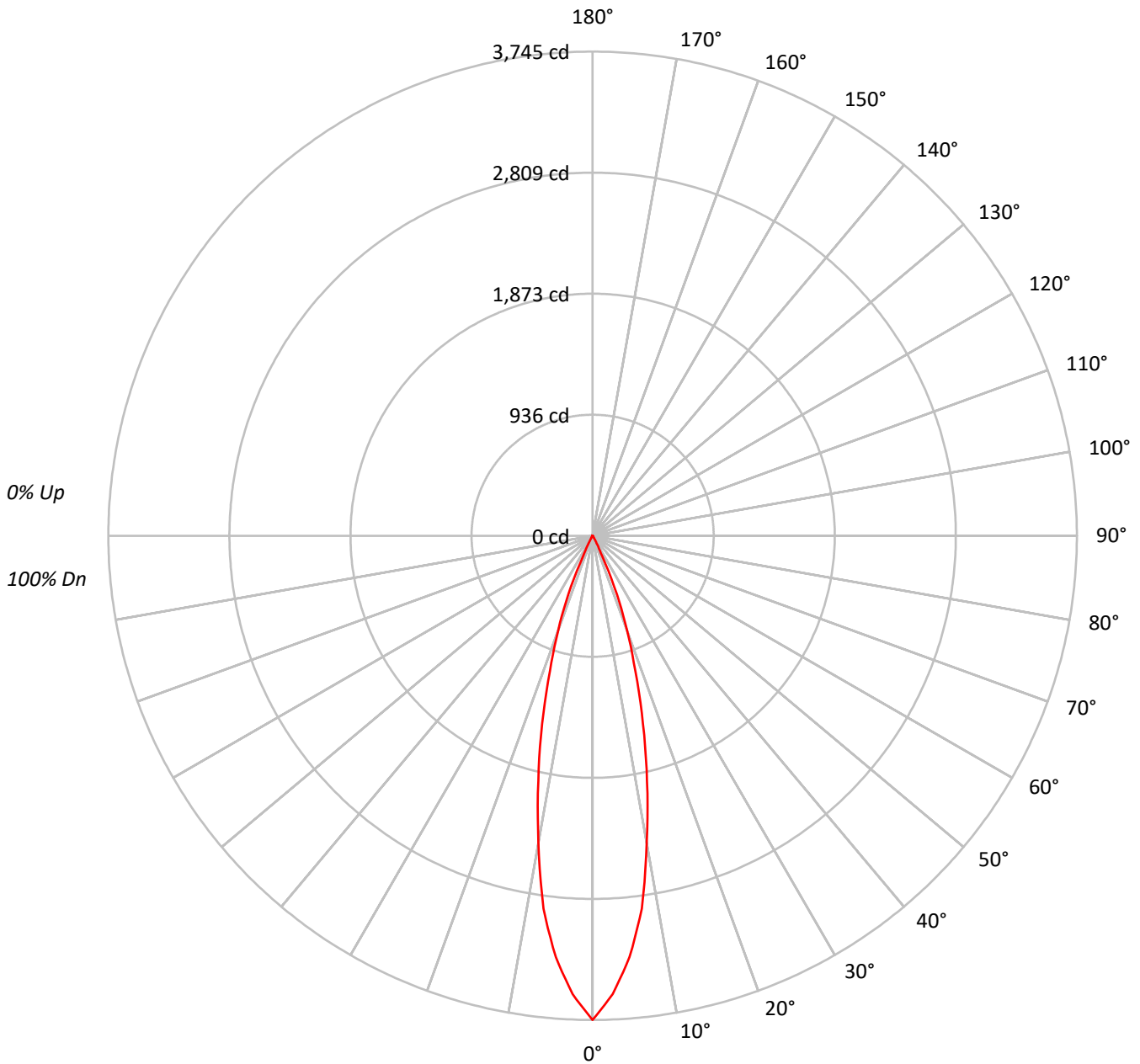
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	87	86	84	83	81																		
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	90	88	87	86	84	83	81	80	79	77																		
4	105	100	96	93	103	99	95	93	97	94	92	95	93	91	93	91	90	88	87	86	84	83	81	80	79	77	75	73																		
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86	84	83	81	80	79	77	75	73	71	69																		
6	99	93	89	86	98	93	89	86	91	88	85	90	87	85	89	86	84	83	81	80	79	77	75	73	71	69	67	65																		
7	97	90	86	83	95	90	86	83	89	85	83	88	85	83	87	84	82	81	80	79	77	75	73	71	69	67	65	63																		
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	65	63	61	59																		
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	63	61	59	57																		
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	61	59	57	55																		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	461979
5°	404968
10°	302049
15°	192145
20°	101898
25°	22987
30°	5526
35°	1581
40°	547
45°	174
50°	96
55°	108
60°	123
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	34.5
10°-20°	411.1	49.6
20°-30°	121.6	14.7
30°-40°	8.6	1.0
40°-50°	1.0	0.1
50°-60°	0.4	0.1
60°-70°	0.3	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°	818.7	98.7
0°-40°	827.4	99.8
0°-60°	828.8	100.0
0°-90°	829.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3745	
5°	3271	286
15°	1505	411
25°	169	122
35°	10	9
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3745.4
2.5°	3548.7
5°	3270.7
7.5°	2909.3
10°	2411.6
12.5°	1943.5
15°	1504.7
17.5°	1096.4
20°	776.3
22.5°	491.5
25°	168.9
27.5°	73.7
30°	38.8
32.5°	19.6
35°	10.5
37.5°	6.2
40°	3.4
42.5°	1.9
45°	1.0
47.5°	0.5
50°	0.5
52.5°	0.5
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.0
67.5°	0.5
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)