

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: P170462

Luminaire Tested: **LDA4A09830D010TE LAR35FL 4LA1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25630)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A09830D010TE LAR35FL 4LA1
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 35° 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: 928.6 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

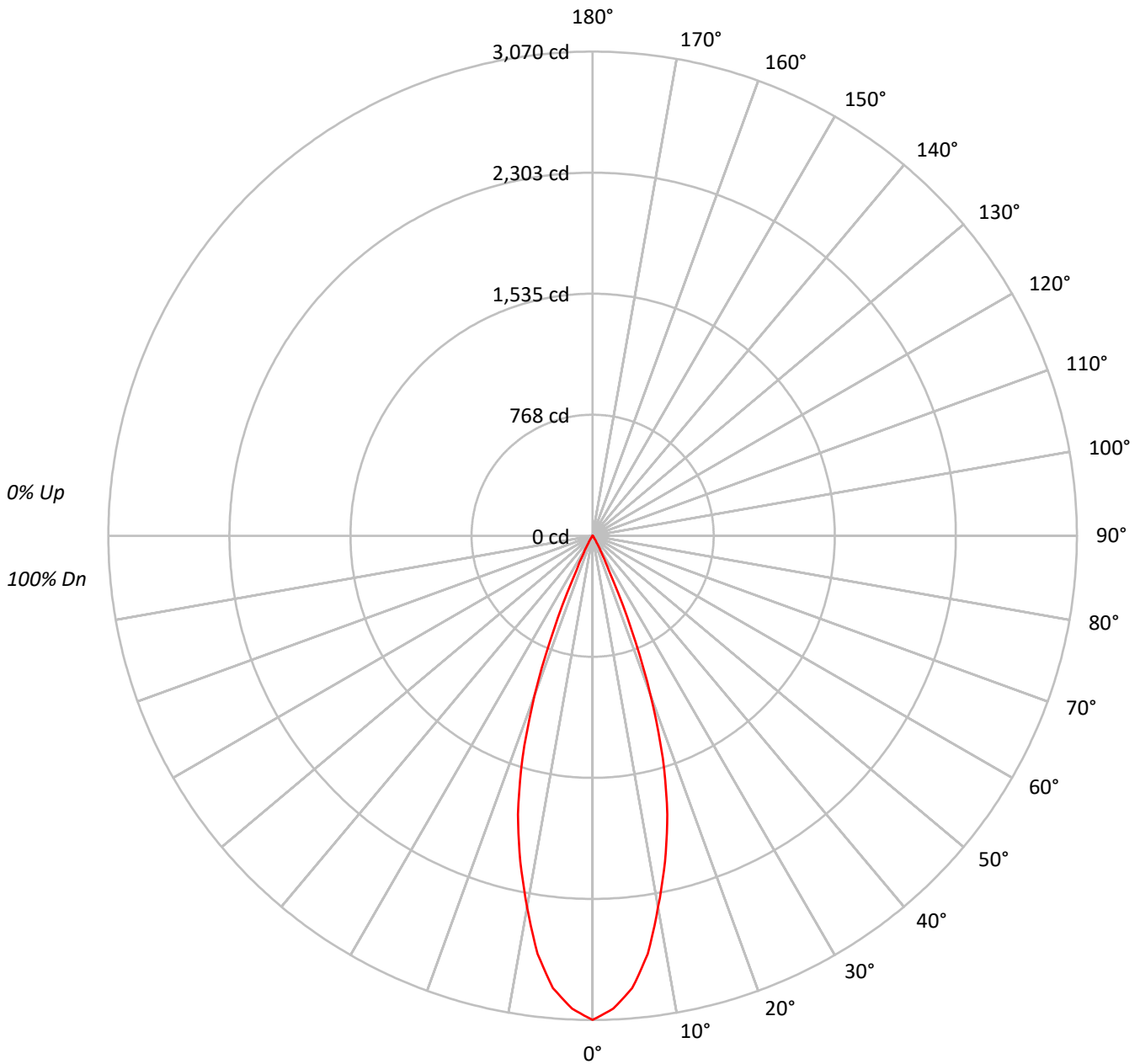
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97	97	97	97
2	111	108	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	97	96	95
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90	95	93	91
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87	92	90	88
5	101	95	91	88	100	94	90	87	93	89	87	91	88	86	90	87	85	84	90	87	85
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81	87	85	83
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79	85	82	80
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76	82	80	77
9	90	83	79	76	89	82	79	76	82	78	76	81	78	75	80	77	75	74	80	77	75
10	87	80	76	74	86	80	76	73	79	76	73	79	75	73	78	75	73	72	78	75	73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	378634
5°	356506
10°	299469
15°	233519
20°	140962
25°	32663
30°	8546
35°	2033
40°	660
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°	259.3	27.9
10°-20°	488.4	52.6
20°-30°	167.2	18.0
30°-40°	11.9	1.3
40°-50°	1.1	0.1
50°-60°	0.4	0.0
60°-70°	0.2	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°	914.9	98.5
0°-40°	926.8	99.8
0°-60°	928.4	100.0
0°-90°	928.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	928.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3070	
5°	2879	259
15°	1829	488
25°	240	167
35°	14	12
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°	3069.7
2.5°	3000.9
5°	2879.3
7.5°	2673.5
10°	2391.0
12.5°	2116.8
15°	1828.7
17.5°	1479.0
20°	1073.9
22.5°	641.5
25°	240.0
27.5°	116.9
30°	60.0
32.5°	26.9
35°	13.5
37.5°	7.2
40°	4.1
42.5°	2.1
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°	0.0
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)