

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: P170566

Luminaire Tested: **LDA4A13830D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26146)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13830D010TE LAR35FL 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, 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: 1499.5 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

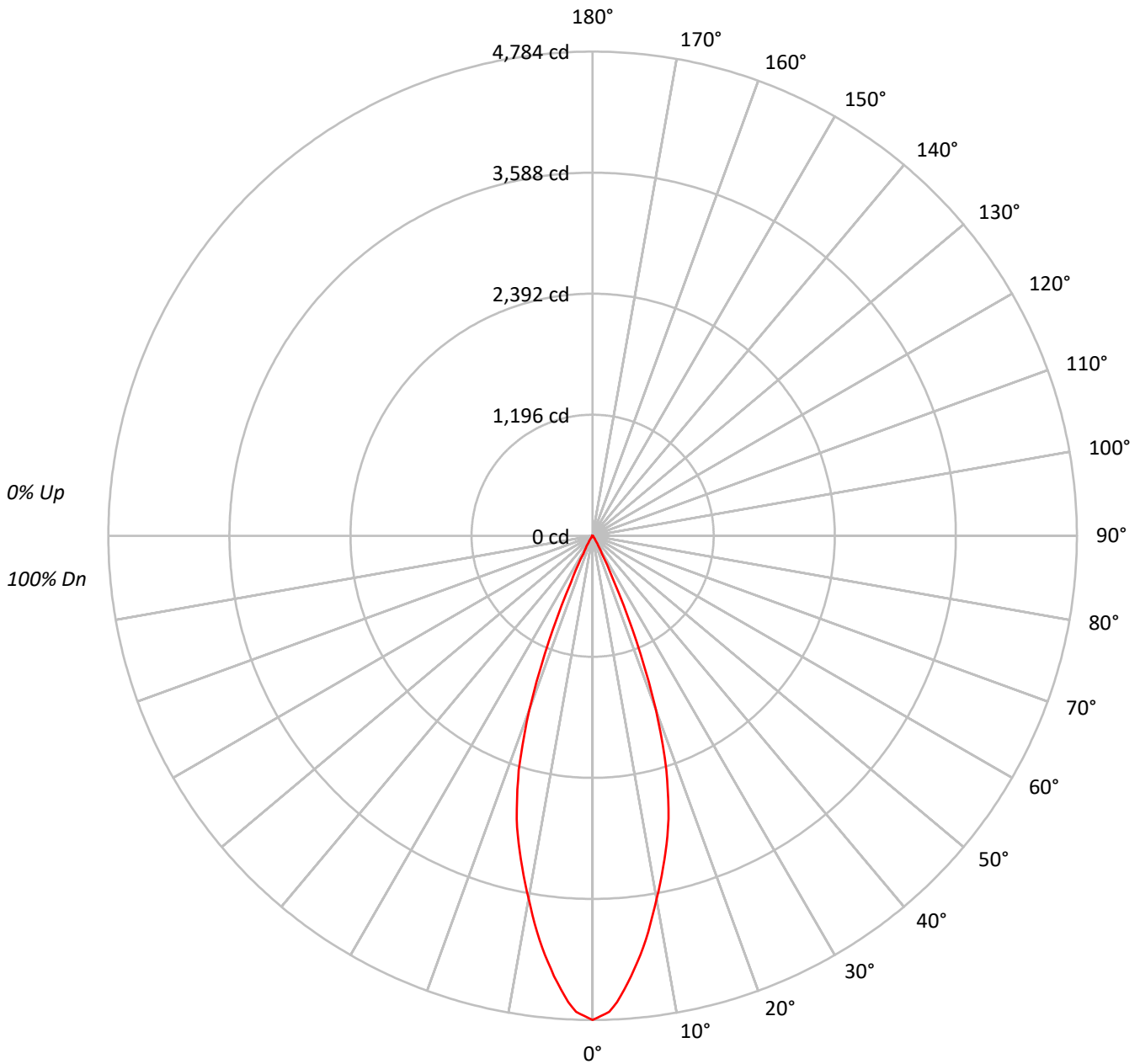
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	96	96	96	96
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93	93	93	93
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90	90
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88	86	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83	83	83	83
6	97	91	87	83	96	90	86	83	89	85	83	88	85	82	86	84	82	81	81	81	81
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78	78
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75	75	75	75
9	89	82	78	75	88	82	77	75	81	77	74	80	77	74	79	76	74	73	73	73	73
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71	71	71	71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	590098
5°	540918
10°	456205
15°	369925
20°	239553
25°	69069
30°	15097
35°	4276
40°	1610
45°	663
50°	288
55°	172
60°	197
65°	233
70°	289
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	26.3
10°-20°	777.2	51.8
20°-30°	299.4	20.0
30°-40°	23.7	1.6
40°-50°	3.4	0.2
50°-60°	0.8	0.1
60°-70°	0.8	0.1
70°-80°	0.3	0.0
80°-90°	0.4	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°	1470.3	98.1
0°-40°	1494.0	99.6
0°-60°	1498.2	99.9
0°-90°	1499.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4784	
5°	4369	394
15°	2897	777
25°	508	299
35°	28	24
45°	4	3
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4784.1
1°	4745.7
2°	4706.6
3°	4614.4
4°	4493.1
5°	4368.7
6°	4232.1
7°	4099.2
8°	3952.6
9°	3793.7
10°	3642.4
11°	3498.1
12°	3347.6
13°	3204.0
14°	3057.3
15°	2896.9
17.5°	2425.4
20°	1825.0
22.5°	1127.9
25°	507.5
27.5°	195.0
30°	106.0
32.5°	54.5
35°	28.4
37.5°	16.9
40°	10.0
42.5°	6.1
45°	3.8
47.5°	2.3
50°	1.5
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8
67.5°	0.8
70°	0.8
72.5°	0.0
75°	0.0
77.5°	0.8
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°		0.8



(END OF REPORT)