

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: P170666

Luminaire Tested: **LDA4A13930D010TE LAR35FL 4LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P170666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26143)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A13930D010TE LAR35FL 4LFC1
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

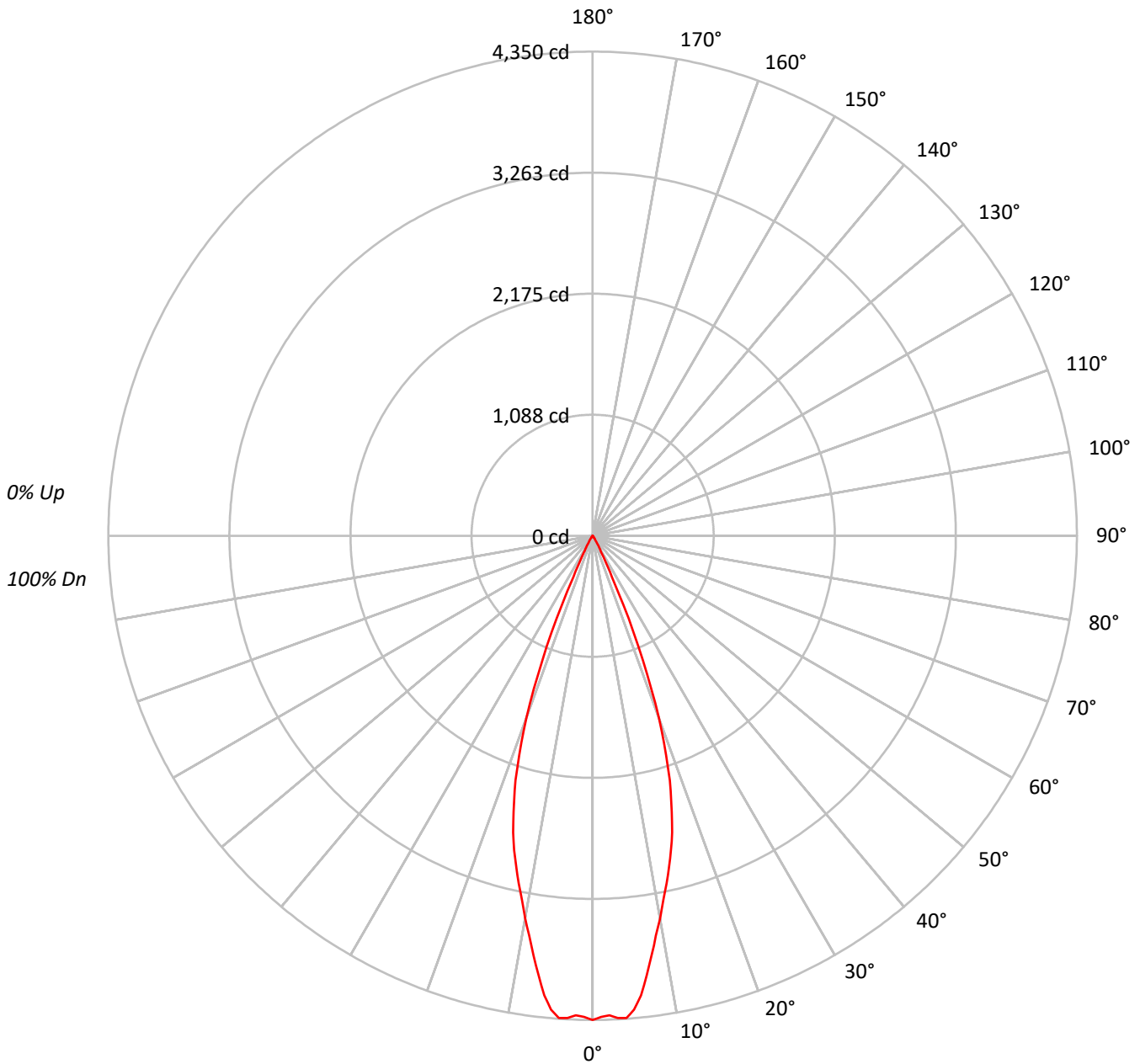
Lumens per Lamp: N/A
Luminaire Lumens: 1413.6 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (Ain): 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	50	30	10	0																								
RCR																																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																																				
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	97	96	94	93	92	91	90	89	88	87	85	84	81																							
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	92	91	90	89	88	87	85	84	81																											
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90	89	88	87	85	84	81																														
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87	85	84	81																																	
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84	81																																			
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81																																				
7	95	88	84	81	94	87	83	81	86	83	80	85	82	80	84	82	79	78																																				
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76																																				
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74																																				
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	536553
5°	529329
10°	437029
15°	352354
20°	228015
25°	55664
30°	13374
35°	3358
40°	1063
45°	227
50°	134
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.7	26.8
10°-20°	740.0	52.4
20°-30°	273.8	19.4
30°-40°	19.3	1.4
40°-50°	1.7	0.1
50°-60°	0.1	0.0
60°-70°	0.0	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°	1392.6	98.5
0°-40°	1411.9	99.9
0°-60°	1413.6	100.0
0°-90°	1413.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1413.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4350	
5°	4275	379
15°	2759	740
25°	409	274
35°	22	19
45°	1	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4350.0
1°	4324.4
2°	4310.6
3°	4337.5
4°	4344.1
5°	4275.1
6°	4152.4
7°	3981.0
8°	3807.7
9°	3636.4
10°	3489.3
11°	3331.1
12°	3191.3
13°	3052.1
14°	2910.9
15°	2759.3
17.5°	2305.0
20°	1737.1
22.5°	1074.7
25°	409.0
27.5°	168.1
30°	93.9
32.5°	44.6
35°	22.3
37.5°	11.8
40°	6.6
42.5°	3.3
45°	1.3
47.5°	0.7
50°	0.7
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
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



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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)