

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: P170557

Luminaire Tested: **LDA4A09827D010TE LAR35FL 4LAL1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170557  
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: LDA4A09827D010TE LAR35FL 4LAL1  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 933.4 lumens  
Efficiency: N/A  
Efficacy: 67.4 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

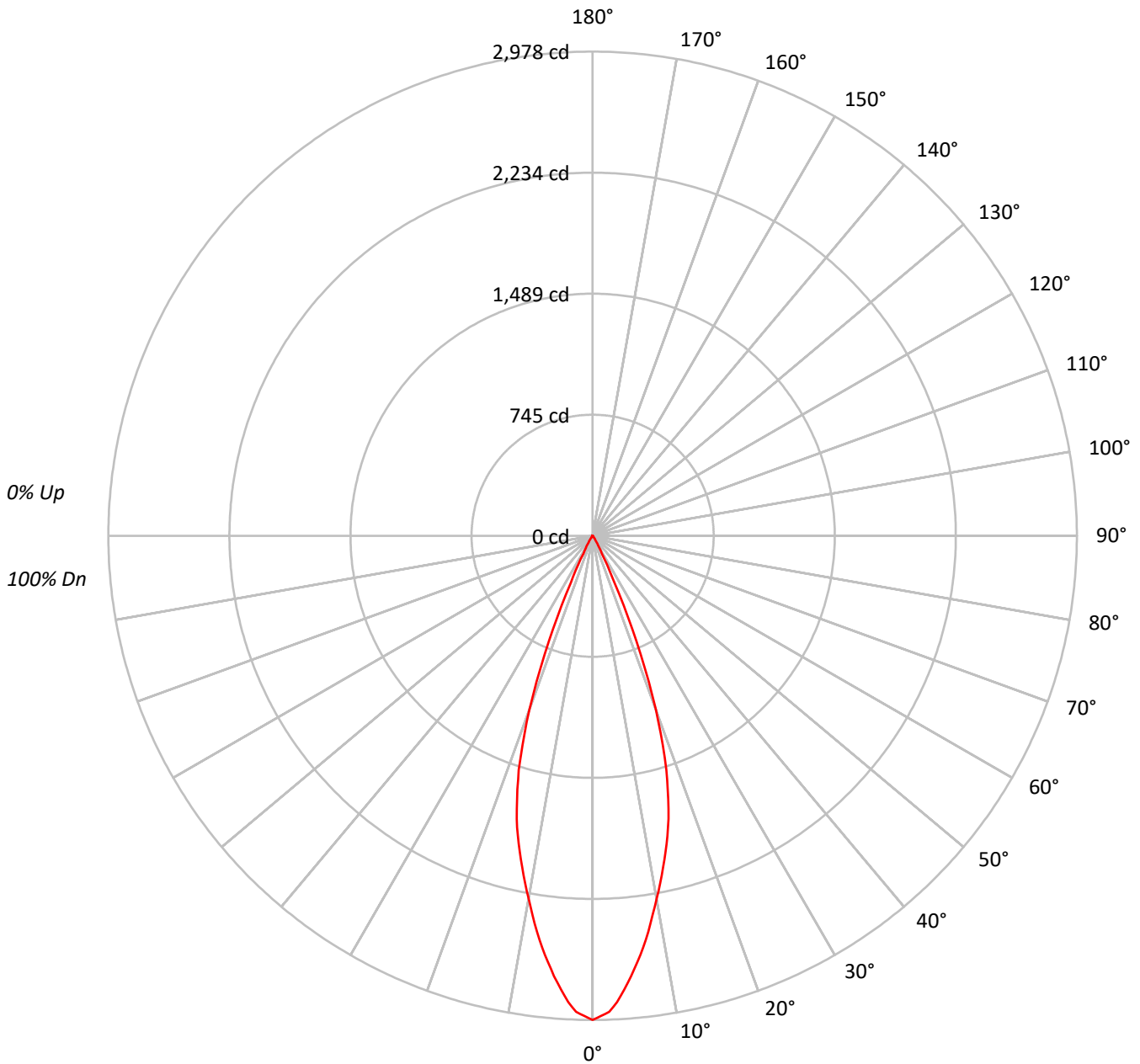
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96			96																
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94			93																	
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91			90																	
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88			86																	
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85			83																	
6	97	91	87	83	96	90	86	83	89	85	83	88	85	82	86	84	82			81																	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79			78																	
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76			75																	
9	89	82	78	75	88	82	77	75	81	77	74	80	77	74	79	76	74			73																	
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72			71																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	367311
5°	336707
10°	283976
15°	230263
20°	149113
25°	42993
30°	9400
35°	2665
40°	998
45°	419
50°	192
55°	108
60°	123
65°	146
70°	180
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.0	26.3
10°-20°	483.8	51.8
20°-30°	186.4	20.0
30°-40°	14.8	1.6
40°-50°	2.1	0.2
50°-60°	0.5	0.1
60°-70°	0.5	0.1
70°-80°	0.2	0.0
80°-90°	0.3	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°	915.2	98.1
0°-40°	929.9	99.6
0°-60°	932.6	99.9
0°-90°	933.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2978	
5°	2719	245
15°	1803	484
25°	316	186
35°	18	15
45°	2	2
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2977.9
1°	2954.0
2°	2929.6
3°	2872.3
4°	2796.8
5°	2719.4
6°	2634.3
7°	2551.6
8°	2460.3
9°	2361.4
10°	2267.3
11°	2177.4
12°	2083.7
13°	1994.4
14°	1903.1
15°	1803.2
17.5°	1509.7
20°	1136.0
22.5°	702.1
25°	315.9
27.5°	121.4
30°	66.0
32.5°	33.9
35°	17.7
37.5°	10.5
40°	6.2
42.5°	3.8
45°	2.4
47.5°	1.4
50°	1.0
52.5°	0.5
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.5
70°	0.5
72.5°	0.0
75°	0.0
77.5°	0.5
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°		0.5



(END OF REPORT)