

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: P175430

Luminaire Tested: **LDA6A15940D010TE LARL20NF 6LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26263)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A15940D010TE LARL20NF 6LFC1  
Description: PORTFOLIO 6" Flat Cone, Self-flange Trim Ring, 20° 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: 1222.8 lumens  
Efficiency: N/A  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.34  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

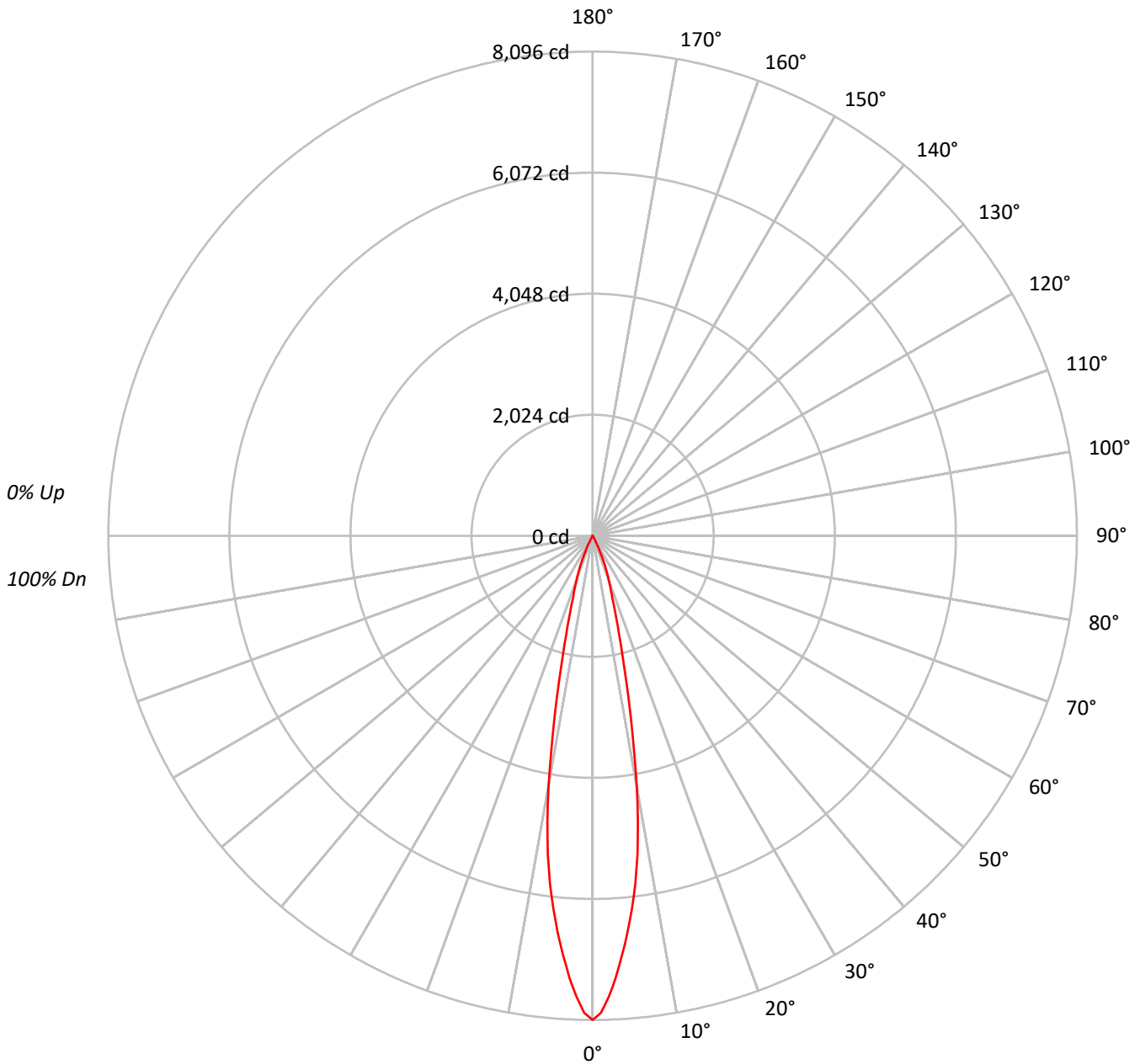
Input Watts (W): 22.27  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	99	97
1	115	114	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	95	95
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95	95	94	93
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93	93	92	91
4	106	102	98	95	105	101	97	95	99	96	94	97	95	93	95	93	92	91	91	90	89
5	104	99	95	92	102	98	94	92	96	93	91	95	92	90	93	91	90	89	89	88	87
6	101	96	92	90	100	95	92	89	94	91	89	93	90	88	92	89	88	87	87	86	85
7	99	93	90	87	98	93	89	87	92	89	87	91	88	86	90	87	86	85	85	84	83
8	97	91	87	85	96	91	87	85	90	87	85	89	86	84	88	86	84	83	83	82	81
9	95	89	85	83	94	89	85	83	88	85	83	87	84	82	86	84	82	81	81	80	80
10	93	87	84	81	92	87	83	81	86	83	81	85	83	81	85	82	81	80	80	79	78

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

	0°
0°	443846
5°	366970
10°	235990
15°	96198
20°	45924
25°	17209
30°	1234
35°	241
40°	100
45°	39
50°	43
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°	562.4	46.0
10°-20°	515.1	42.1
20°-30°	141.2	11.5
30°-40°	3.5	0.3
40°-50°	0.5	0.0
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°	1218.7	99.7
0°-40°	1222.2	100.0
0°-60°	1222.8	100.0
0°-90°	1222.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8096	
5°	6669	562
15°	1695	515
25°	284	141
35°	4	3
45°	0	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8096.4
1°	7978.4
2°	7716.6
3°	7396.8
4°	7037.9
5°	6668.6
6°	6279.3
7°	5858.3
8°	5377.3
9°	4837.0
10°	4239.4
11°	3607.9
12°	3019.4
13°	2488.1
14°	2057.1
15°	1695.0
17.5°	1086.2
20°	787.2
22.5°	532.2
25°	284.5
27.5°	95.3
30°	19.5
32.5°	6.8
35°	3.6
37.5°	2.3
40°	1.4
42.5°	0.9
45°	0.5
47.5°	0.5
50°	0.5
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)