

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: P175436

Luminaire Tested: **LDA6A30930D010TE LARL20NF 6LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175436  
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: LDA6A30930D010TE 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 / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2192.2 lumens  
Efficiency: N/A  
Efficacy: 49.3 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

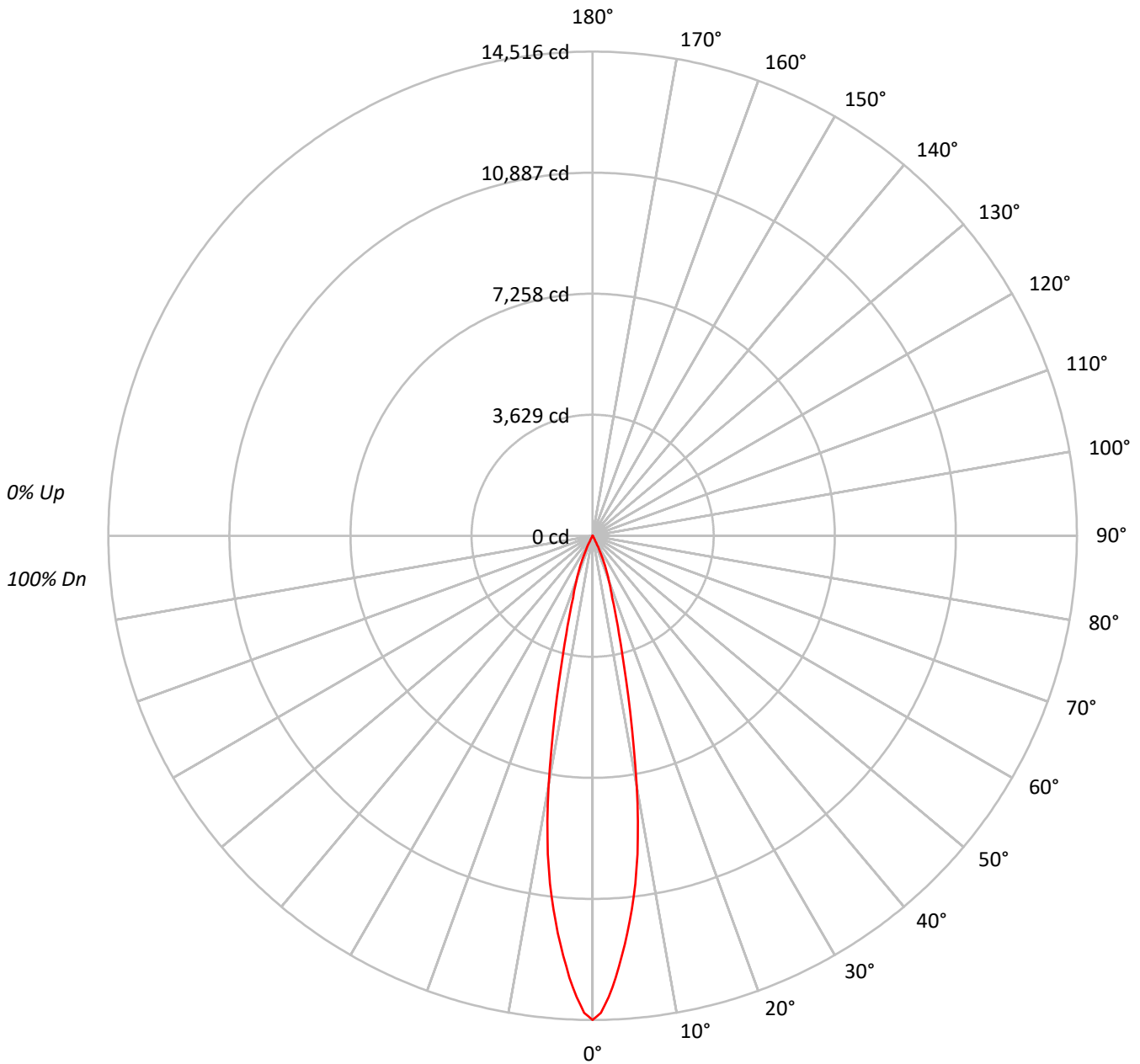
Input Watts (W): 44.49  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	795770
5°	657939
10°	423111
15°	172481
20°	82333
25°	30849
30°	2216
35°	435
40°	172
45°	62
50°	68
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°	1008.3	46.0
10°-20°	923.6	42.1
20°-30°	253.2	11.5
30°-40°	6.2	0.3
40°-50°	0.9	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°	2185.0	99.7
0°-40°	2191.2	100.0
0°-60°	2192.2	100.0
0°-90°	2192.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14516	
5°	11956	###
15°	3039	924
25°	510	253
35°	6	6
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°	14516.0
1°	14304.5
2°	13835.2
3°	13261.7
4°	12618.3
5°	11956.1
6°	11258.2
7°	10503.3
8°	9641.0
9°	8672.2
10°	7600.9
11°	6468.6
12°	5413.5
13°	4461.0
14°	3688.2
15°	3039.1
17.5°	1947.4
20°	1411.3
22.5°	954.2
25°	510.0
27.5°	170.8
30°	35.0
32.5°	12.2
35°	6.5
37.5°	4.1
40°	2.4
42.5°	1.6
45°	0.8
47.5°	0.8
50°	0.8
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)