

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: P175414

Luminaire Tested: **LDA6A20940D010TE LARL20NF 6LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P175414
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: LDA6A20940D010TE 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: 1514.8 lumens
Efficiency: N/A
Efficacy: 52.0 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

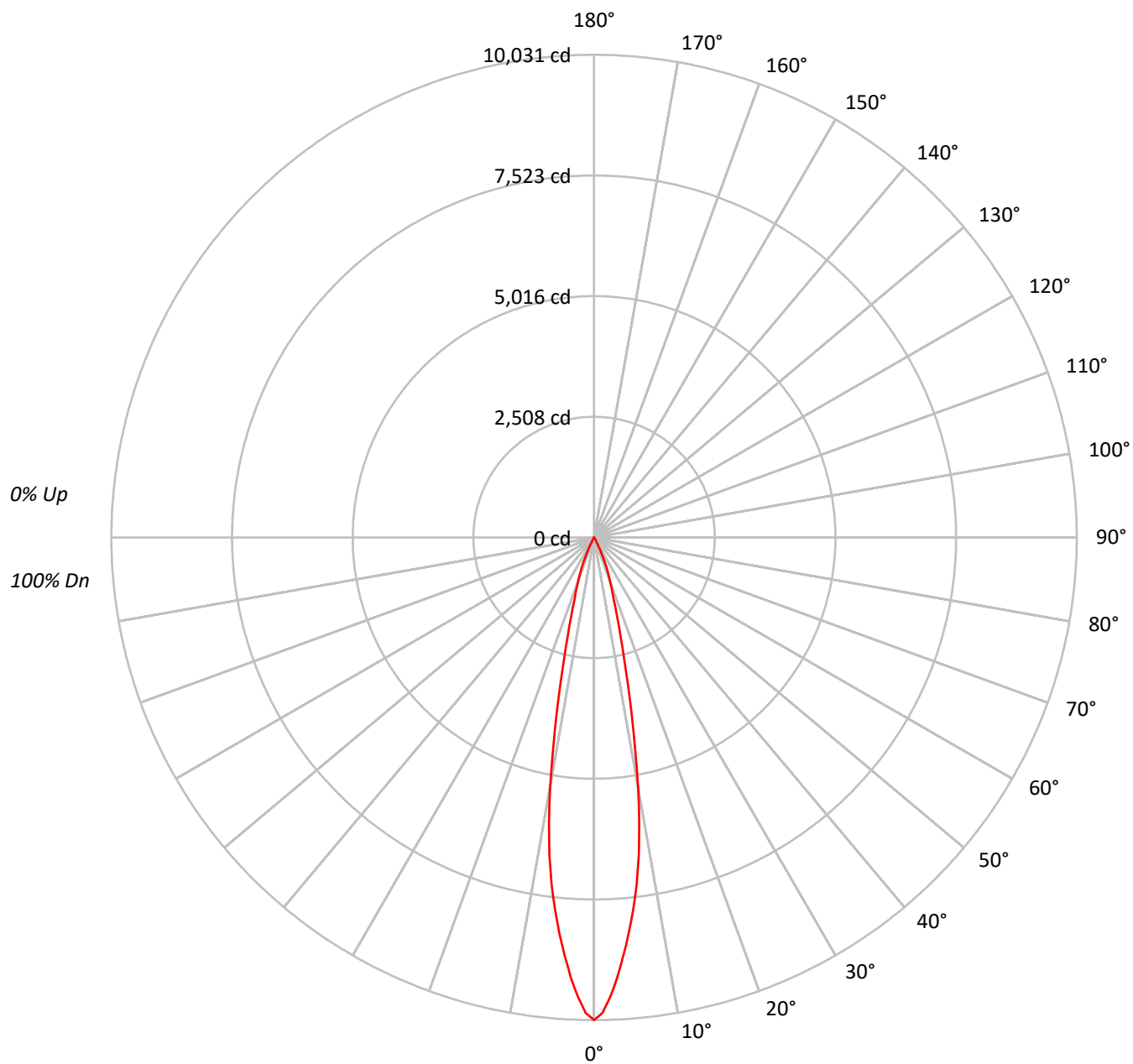
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P175414

CATALOG NUMBER: LDA6A20940D010TE LARL20NF 6LFC1

Luminous Intensity Polar Plot





TEST NUMBER: P175414

CATALOG NUMBER: LDA6A20940D010TE LARL20NF 6LFC1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	115	114	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95	95	95
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93	93	93
4	106	102	98	95	105	101	97	95	99	96	94	97	95	93	95	93	92	91	91	91
5	104	99	95	92	102	98	94	92	96	93	91	95	92	90	93	91	90	89	89	89
6	101	96	92	90	100	95	92	89	94	91	89	93	90	88	92	89	88	87	87	87
7	99	93	90	87	98	93	89	87	92	89	87	91	88	86	90	87	86	85	85	85
8	97	91	87	85	96	91	87	85	90	87	85	89	86	84	88	86	84	83	83	83
9	95	89	85	83	94	89	85	83	88	85	83	87	84	82	86	84	82	81	81	81
10	93	87	84	81	92	87	83	81	86	83	81	85	83	81	85	82	81	80	80	80

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	549885
5°	454643
10°	292374
15°	119183
20°	56892
25°	21316
30°	1532
35°	301
40°	122
45°	47
50°	51
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P175414

CATALOG NUMBER: LDA6A20940D010TE LARL20NF 6LFC1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.7	46.0
10°-20°	638.2	42.1
20°-30°	174.9	11.5
30°-40°	4.3	0.3
40°-50°	0.7	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°	1509.8	99.7
0°-40°	1514.1	100.0
0°-60°	1514.8	100.0
0°-90°	1514.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10031	
5°	8262	697
15°	2100	638
25°	352	175
35°	4	4
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P175414

CATALOG NUMBER: LDA6A20940D010TE LARL20NF 6LFC1

CANDELA DISTRIBUTION (FULL):

	0°
0°	10030.7
1°	9884.6
2°	9560.2
3°	9164.0
4°	8719.3
5°	8261.8
6°	7779.5
7°	7257.9
8°	6662.0
9°	5992.6
10°	5252.3
11°	4469.8
12°	3740.8
13°	3082.6
14°	2548.6
15°	2100.0
17.5°	1345.7
20°	975.2
22.5°	659.3
25°	352.4
27.5°	118.0
30°	24.2
32.5°	8.4
35°	4.5
37.5°	2.8
40°	1.7
42.5°	1.1
45°	0.6
47.5°	0.6
50°	0.6
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



TEST NUMBER: P175414

CATALOG NUMBER: LDA6A20940D010TE LARL20NF 6LFC1

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°	0.0
87.5°	0.0



(END OF REPORT)