

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: P175408

Luminaire Tested: **LDA6A20830D010TE LARL20NF 6LFC1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P175408
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: LDA6A20830D010TE LARL20NF 6LFC1
Description: PORTFOLIO 6" Flat Cone, Self-flange Trim Ring, 20° Narrow Flood
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1637.1 lumens
Efficiency: N/A
Efficacy: 56.2 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

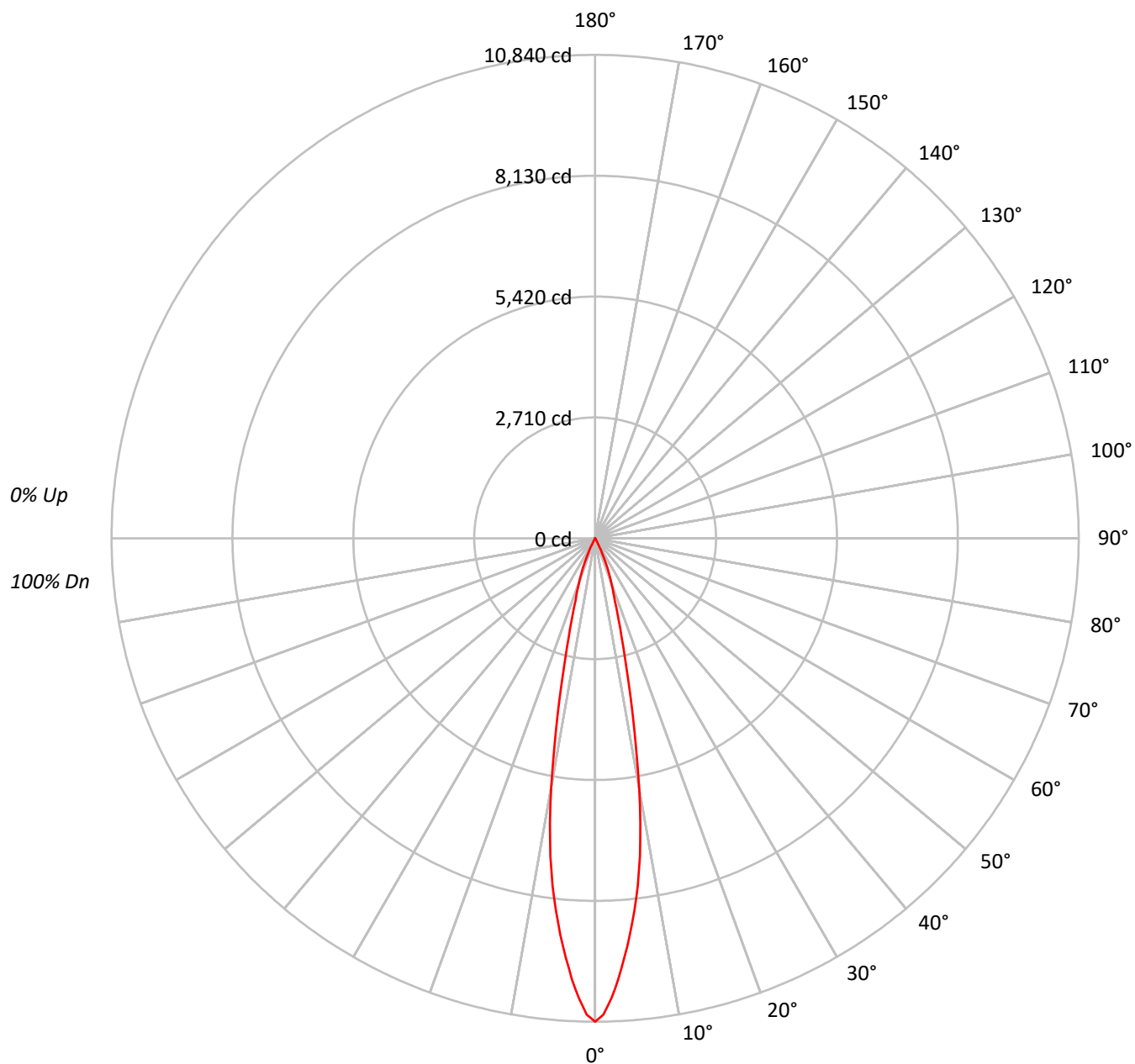
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P175408

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	594278
5°	491343
10°	315976
15°	128803
20°	61489
25°	23040
30°	1652
35°	328
40°	129
45°	47
50°	51
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°	753.0	46.0
10°-20°	689.7	42.1
20°-30°	189.1	11.5
30°-40°	4.6	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°	1631.7	99.7
0°-40°	1636.4	100.0
0°-60°	1637.1	100.0
0°-90°	1637.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10840	
5°	8929	753
15°	2270	690
25°	381	189
35°	5	5
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°	10840.5
1°	10682.5
2°	10332.0
3°	9903.7
4°	9423.2
5°	8928.7
6°	8407.5
7°	7843.8
8°	7199.8
9°	6476.3
10°	5676.3
11°	4830.7
12°	4042.8
13°	3331.4
14°	2754.3
15°	2269.5
17.5°	1454.3
20°	1054.0
22.5°	712.6
25°	380.9
27.5°	127.6
30°	26.1
32.5°	9.1
35°	4.9
37.5°	3.0
40°	1.8
42.5°	1.2
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



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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)