

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: P1191638

Luminaire Tested: **LDA4A20935D010TE LAR15SP 4LAL1**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1191638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26144)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A20935D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

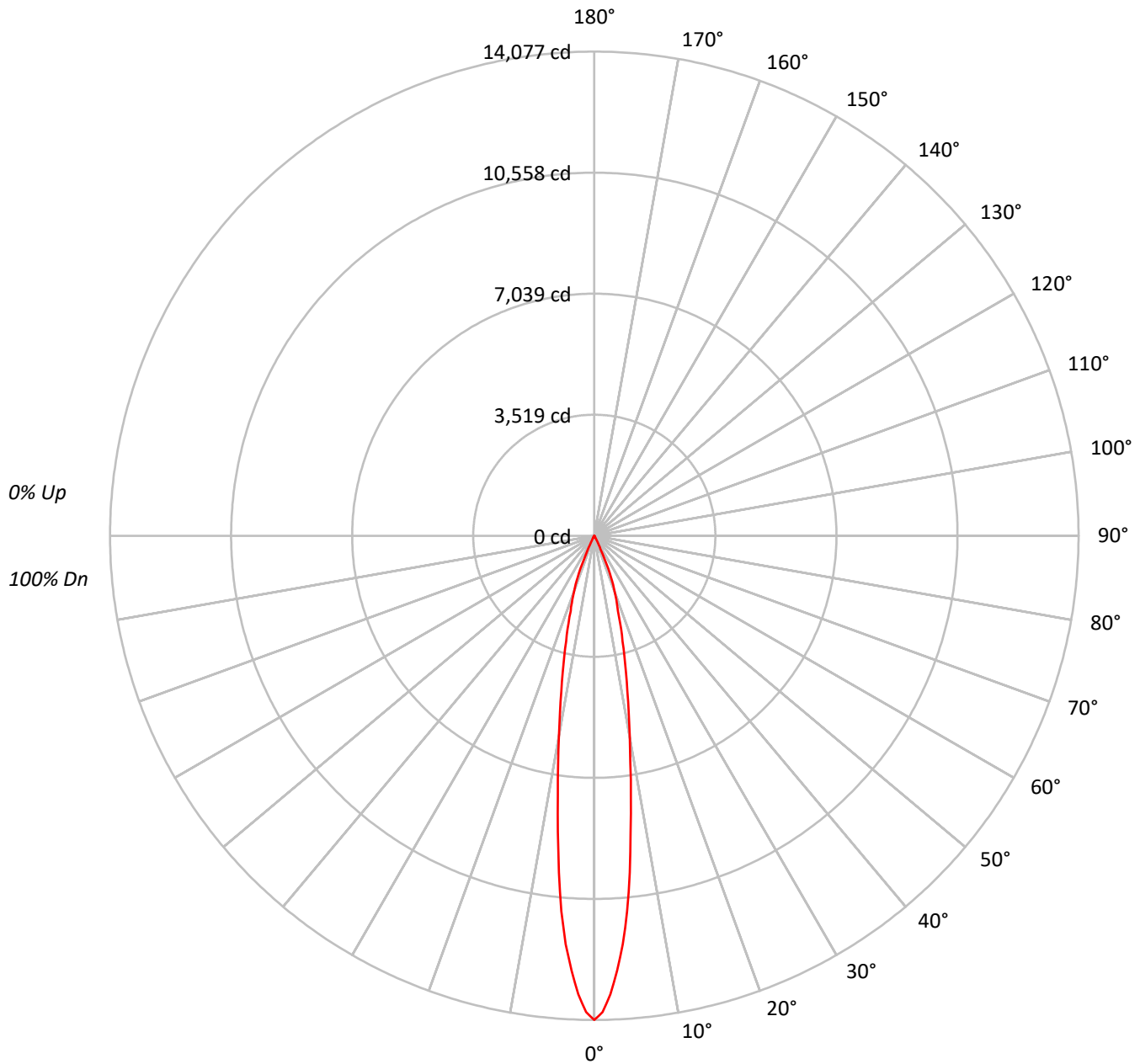
Lumens per Lamp: N/A
Luminaire Lumens: 2076.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1736386
5°	1357119
10°	741145
15°	404786
20°	227831
25°	57841
30°	10995
35°	3930
40°	1916
45°	1029
50°	230
55°	258
60°	296
65°	350
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.4	41.7
10°-20°	900.5	43.4
20°-30°	282.5	13.6
30°-40°	19.9	1.0
40°-50°	4.6	0.2
50°-60°	1.1	0.1
60°-70°	1.0	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°	2049.4	98.7
0°-40°	2069.3	99.7
0°-60°	2074.9	100.0
0°-90°	2076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14077	
5°	10961	866
15°	3170	901
25°	425	282
35°	26	20
45°	6	5
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14077.4
1°	13852.9
2°	13341.2
3°	12659.8
4°	11905.8
5°	10960.7
6°	9842.4
7°	8672.9
8°	7621.1
9°	6705.6
10°	5917.4
11°	5227.5
12°	4622.0
13°	4086.5
14°	3604.5
15°	3169.9
17.5°	2289.0
20°	1735.7
22.5°	1181.3
25°	425.0
27.5°	142.5
30°	77.2
32.5°	42.7
35°	26.1
37.5°	17.8
40°	11.9
42.5°	8.3
45°	5.9
47.5°	3.6
50°	1.2
52.5°	1.2
55°	1.2
57.5°	1.2
60°	1.2
62.5°	1.2
65°	1.2
67.5°	1.2
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

Classified

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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Scaled Data Report



85°	0.0
87.5°	0.0

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Scaled Data Report



(END OF REPORT)