

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: P1191926

Luminaire Tested: **LDA4A35940D010TE 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: P1191926
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: LDA4A35940D010TE LAR15SP 4LAL1
Description: PORTFOLIO 4" Lensed Adjustable, Self-flange Trim Ring, 15° Spot
Optic, at 0° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

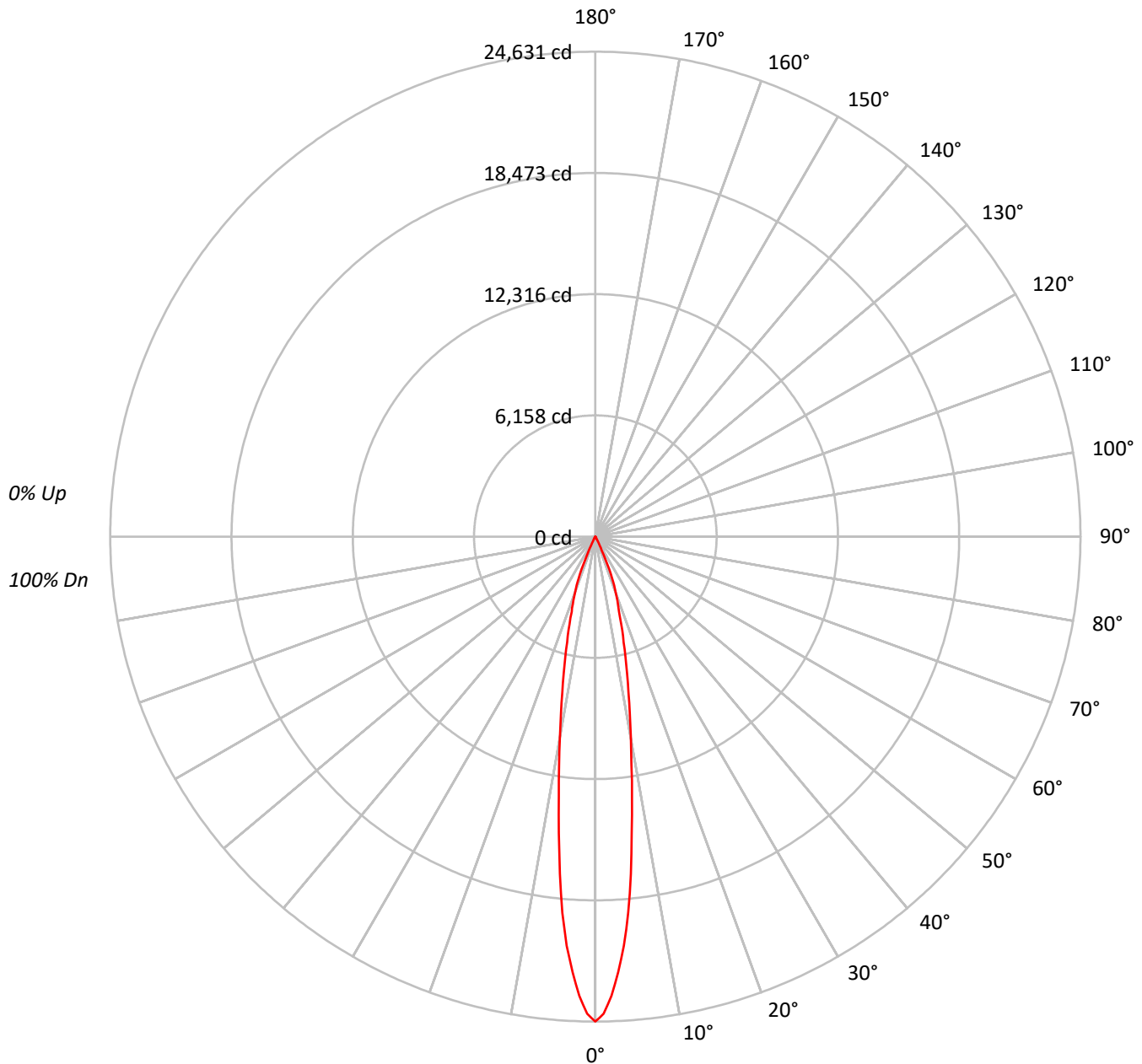
Lumens per Lamp: N/A
Luminaire Lumens: 3632.3 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	100	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	95
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92	92	92
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90	90	90
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	87	87
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	85	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	81	81	81
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79	79	79
10	91	85	81	79	90	85	81	79	84	81	79	83	81	79	83	80	78	78	78	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3038077
5°	2374534
10°	1296735
15°	708257
20°	398655
25°	101215
30°	19228
35°	6881
40°	3349
45°	1814
50°	403
55°	452
60°	518
65°	613
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1515.9	41.7
10°-20°	1575.6	43.4
20°-30°	494.2	13.6
30°-40°	34.8	1.0
40°-50°	8.0	0.2
50°-60°	1.9	0.1
60°-70°	1.8	0.1
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°	3585.8	98.7
0°-40°	3620.5	99.7
0°-60°	3630.5	99.9
0°-90°	3632.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24631	
5°	19178	###
15°	5546	1576
25°	744	494
35°	46	35
45°	10	8
55°	2	2
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	24630.6
1°	24238.1
2°	23342.7
3°	22150.4
4°	20831.2
5°	19177.8
6°	17220.9
7°	15174.7
8°	13334.3
9°	11732.6
10°	10353.3
11°	9146.4
12°	8087.0
13°	7150.1
14°	6306.7
15°	5546.4
17.5°	4005.0
20°	3037.1
22.5°	2066.9
25°	743.7
27.5°	249.2
30°	135.0
32.5°	74.7
35°	45.7
37.5°	31.2
40°	20.8
42.5°	14.5
45°	10.4
47.5°	6.2
50°	2.1
52.5°	2.1
55°	2.1
57.5°	2.1
60°	2.1
62.5°	2.1
65°	2.1
67.5°	2.1
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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Scaled Data Report

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Scaled Data Report



— 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)