

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: P1191458

Luminaire Tested: **LDA4A10935D010TE 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: P1191458
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: LDA4A10935D010TE 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

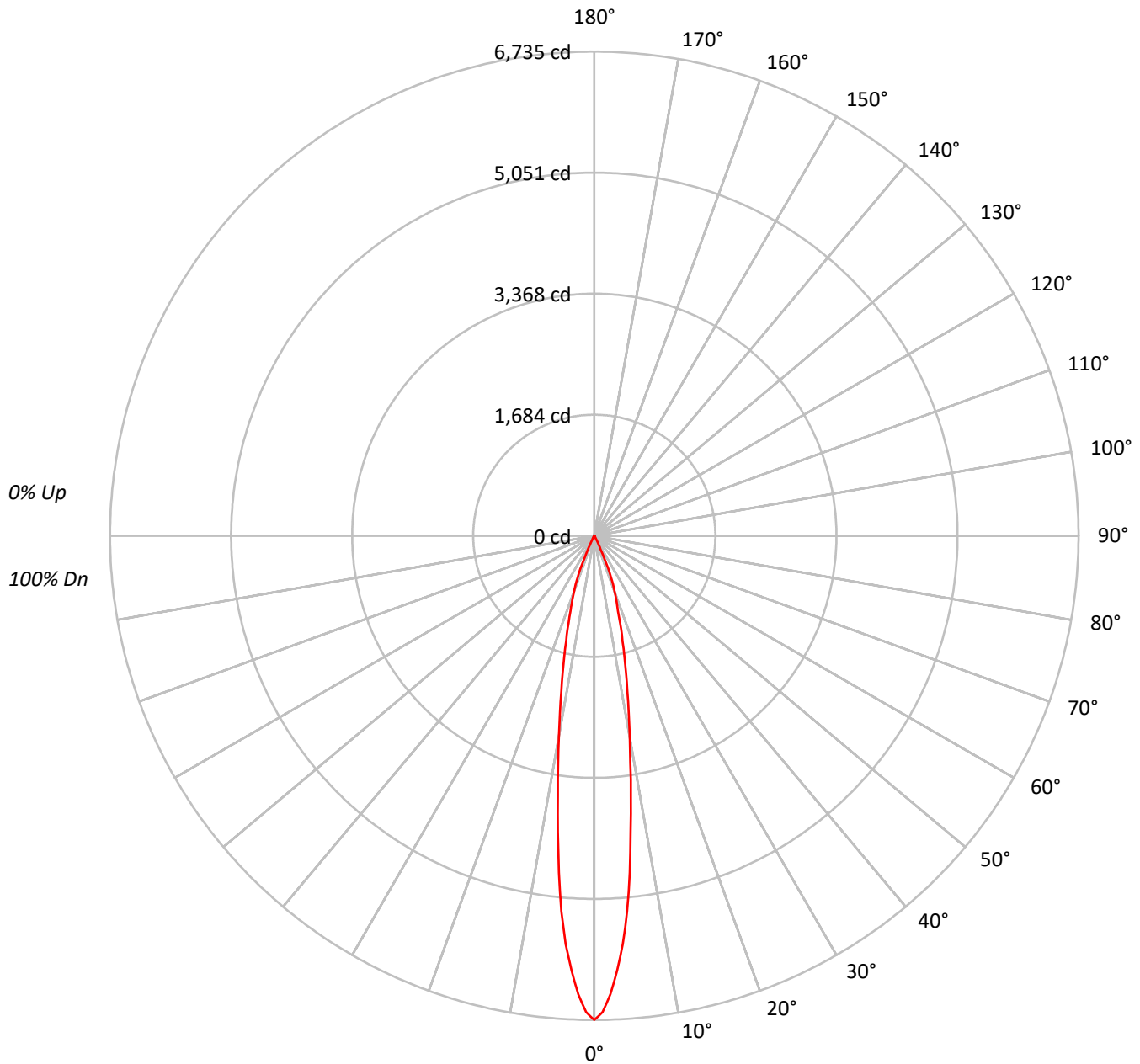
Lumens per Lamp: N/A
Luminaire Lumens: 993.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 0.29 / 0.29 / 0.34
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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					0
RW	70	50	30	10	70	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
1	115	113	112	110	113	111	110	108		107	106	105		104	103	102		100	100	99
2	112	108	106	103	110	107	104	102		104	102	100		101	99	98		98	97	96
3	109	104	101	98	107	103	100	98		101	98	96		98	96	95		96	95	93
4	106	101	97	94	104	100	96	94		98	95	93		96	94	92		94	92	91
5	103	97	94	91	102	97	93	90		95	92	90		94	91	89		92	90	88
6	100	95	91	88	99	94	90	88		93	89	87		91	89	87		90	88	86
7	98	92	88	85	97	91	88	85		90	87	85		89	86	84		88	86	84
8	95	89	86	83	95	89	85	83		88	85	83		87	84	82		86	84	82
9	93	87	83	81	92	87	83	81		86	83	81		85	82	80		85	82	80
10	91	85	81	79	90	85	81	79		84	81	79		83	81	79		83	80	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	830745
5°	649295
10°	354578
15°	193678
20°	109013
25°	27668
30°	5256
35°	1882
40°	918
45°	488
50°	96
55°	108
60°	123
65°	146
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.5	41.7
10°-20°	430.9	43.4
20°-30°	135.1	13.6
30°-40°	9.5	1.0
40°-50°	2.2	0.2
50°-60°	0.4	0.0
60°-70°	0.4	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°	980.5	98.7
0°-40°	990.0	99.7
0°-60°	992.6	100.0
0°-90°	993.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6735	
5°	5244	415
15°	1517	431
25°	203	135
35°	12	10
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6735.1
1°	6627.7
2°	6382.9
3°	6056.8
4°	5696.1
5°	5244.0
6°	4708.9
7°	4149.4
8°	3646.1
9°	3208.2
10°	2831.0
11°	2501.0
12°	2211.4
13°	1955.1
14°	1724.5
15°	1516.7
17.5°	1095.2
20°	830.5
22.5°	565.2
25°	203.3
27.5°	68.1
30°	36.9
32.5°	20.5
35°	12.5
37.5°	8.5
40°	5.7
42.5°	3.9
45°	2.8
47.5°	1.7
50°	0.5
52.5°	0.5
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.5
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°

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Scaled Data Report



85°	0.0
87.5°	0.0

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Scaled Data Report



(END OF REPORT)