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

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: P170407

Luminaire Tested: **LDA4A13835D010TE LAR15SP 4LA1**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P170407
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25628)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LDA4A13835D010TE LAR15SP 4LA1
Description:	PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 15° Spot Optic, at 0° tilt
Light Source:	(1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1288.2 lumens
Efficiency:	N/A
Efficacy:	57.8 lumens/watt
Spacing Criteria (0/90/45):	0.32 / 0.32 / 0.35
Luminous Opening:	Circular (Dia: 0.33' x H: 0')
CIE Type:	Direct

Input Watts (W):	22.27
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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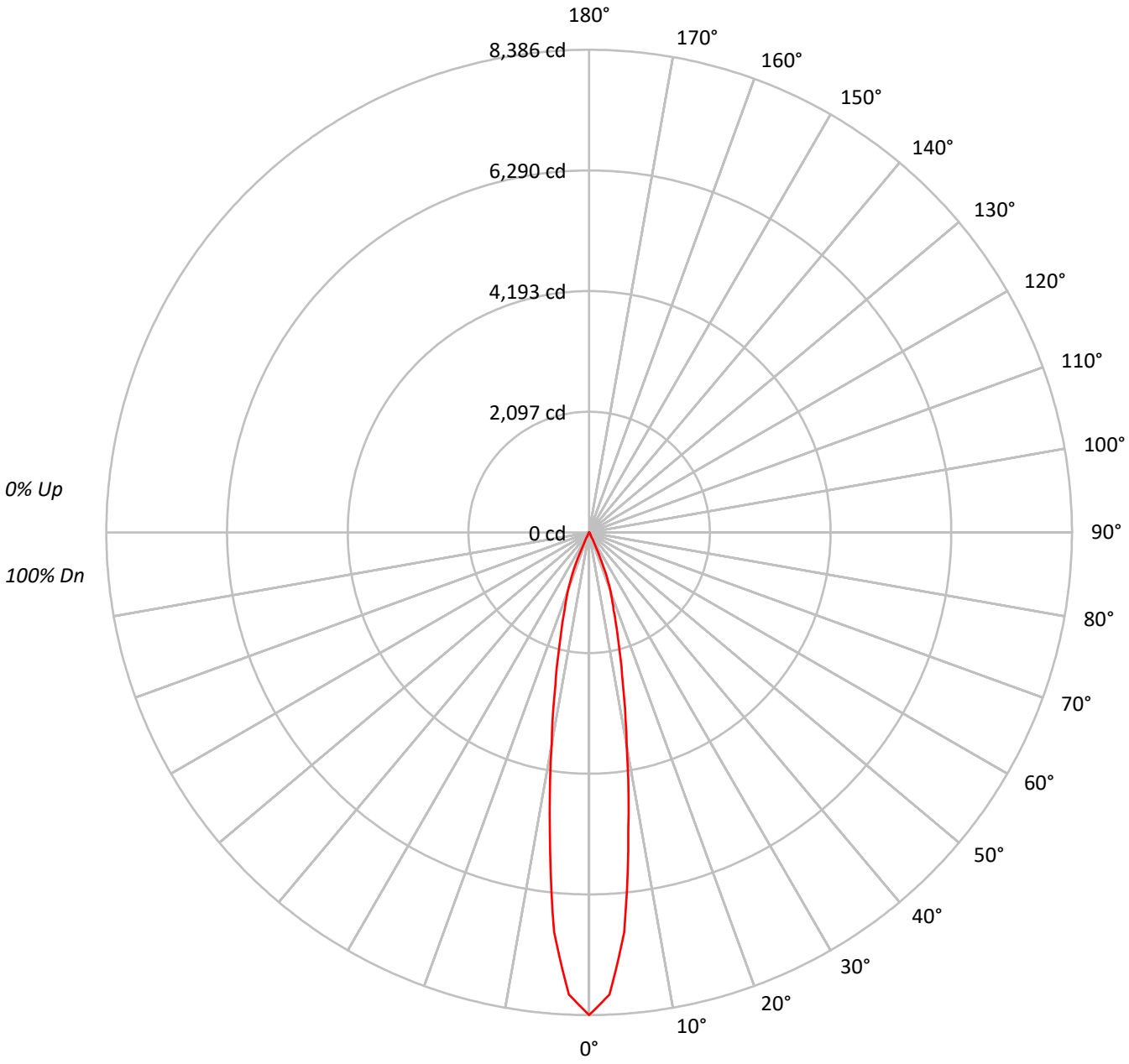
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82
9	94	88	84	82	93	87	84	82	87	84	81	86	83	81	85	83	81	80
10	92	86	82	80	91	85	82	80	85	82	80	84	81	79	84	81	79	78

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1034327
5°	862904
10°	469143
15°	249200
20°	141960
25°	27791
30°	5754
35°	1702
40°	644
45°	279
50°	154
55°	172
60°	197
65°	0
70°	0
75°	0
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.5	42.9
10°-20°	562.9	43.7
20°-30°	161.5	12.5
30°-40°	9.2	0.7
40°-50°	1.4	0.1
50°-60°	0.7	0.1
60°-70°	0.1	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°	1276.9	99.1
0°-40°	1286.0	99.8
0°-60°	1288.1	100.0
0°-90°	1288.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1288.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8386	
5°	6969	553
15°	1952	563
25°	204	161
35°	11	9
45°	2	1
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	8385.6
2.5°	8038.6
5°	6969.2
7.5°	5221.0
10°	3745.7
12.5°	2701.3
15°	1951.5
17.5°	1412.4
20°	1081.5
22.5°	682.0
25°	204.2
27.5°	78.3
30°	40.4
32.5°	21.0
35°	11.3
37.5°	6.5
40°	4.0
42.5°	2.4
45°	1.6
47.5°	0.8
50°	0.8
52.5°	0.8
55°	0.8
57.5°	0.8
60°	0.8
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
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)