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: P170178

Luminaire Tested: **LDA4A09930D010TE LAR15SP 4LPIN**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P170178
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26150)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LDA4A09930D010TE LAR15SP 4LPIN
Description:	PORTFOLIO 4" White Pinhole with Black Oculus, Self-flanged, 15° Spot Optic, at 0° tilt
Light Source:	(1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	326.5 lumens
Efficiency:	N/A
Efficacy:	23.6 lumens/watt
Spacing Criteria (0/90/45):	0.34 / 0.34 / 0.31
Luminous Opening:	Circular (Dia: 0.33' x H: 0')
CIE Type:	Direct

Input Watts (W):	13.84
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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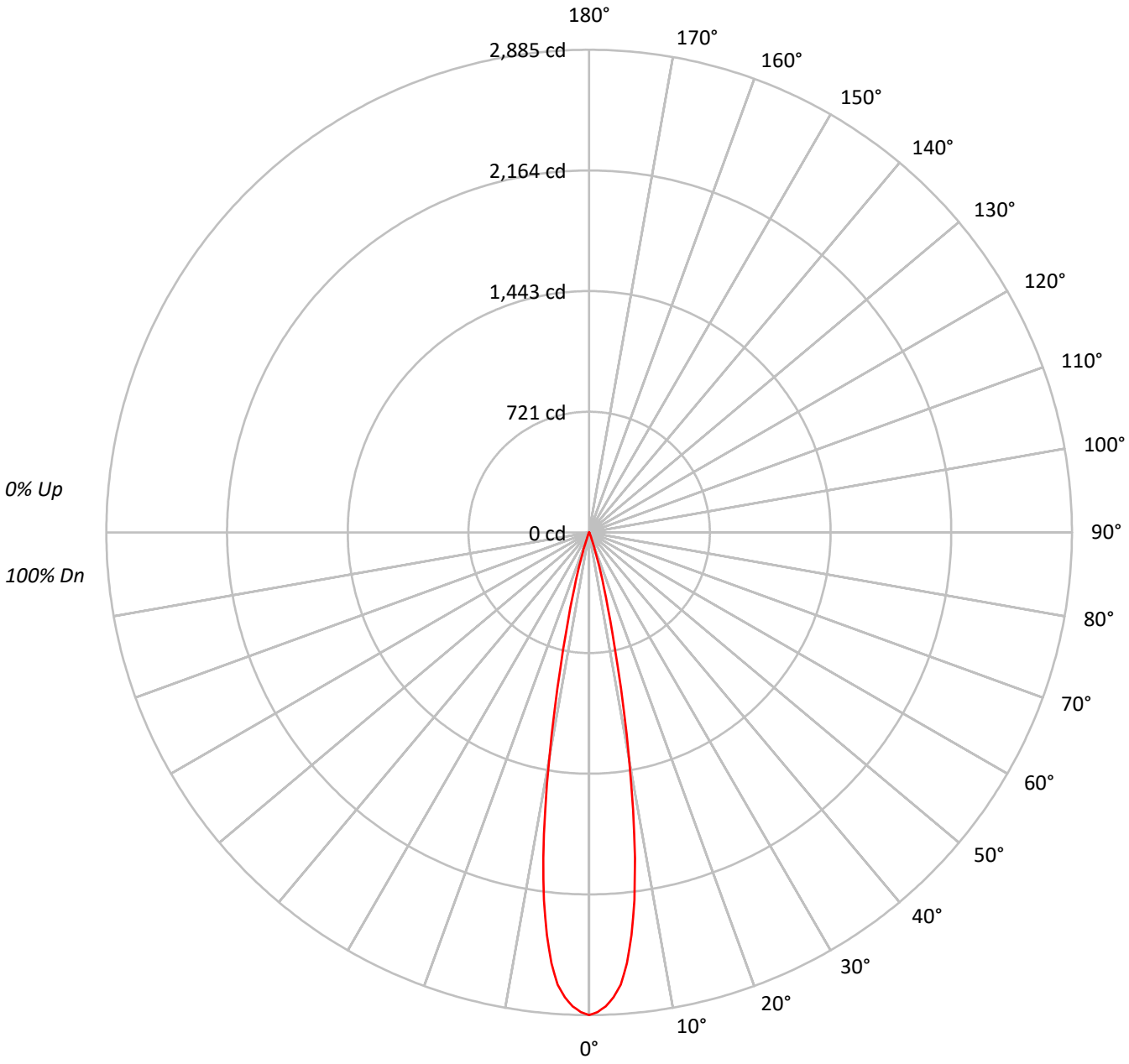
Luminous Intensity Polar Plot



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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	116	114	113	111	114	112	111	109	108	107	106	105	104	103	101	101	100	98
2	113	110	108	106	111	109	107	105	106	104	103	103	102	100	100	99	98	97
3	111	107	104	102	109	106	103	101	103	101	100	101	100	98	99	98	97	96
4	109	104	101	99	107	103	101	99	102	99	97	100	98	96	98	97	95	94
5	107	102	99	97	105	101	98	96	100	97	96	98	96	95	97	95	94	93
6	105	100	97	95	104	99	97	94	98	96	94	97	95	93	96	94	93	92
7	103	98	95	93	102	98	95	93	97	94	92	96	94	92	95	93	92	91
8	101	97	94	92	101	96	93	91	95	93	91	95	92	91	94	92	91	90
9	100	95	92	90	99	95	92	90	94	92	90	93	91	90	93	91	89	89
10	99	94	91	89	98	93	91	89	93	90	89	92	90	89	92	90	88	88

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	355852
5°	320029
10°	172091
15°	43328
20°	5802
25°	1143
30°	313
35°	60
40°	64
45°	0
50°	0
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°	207.7	63.6
10°-20°	112.6	34.5
20°-30°	5.7	1.8
30°-40°	0.5	0.1
40°-50°	0.0	0.0
50°-60°	0.0	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°	326.0	99.9
0°-40°	326.4	100.0
0°-60°	326.5	100.0
0°-90°	326.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	326.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2885	
5°	2585	208
15°	339	113
25°	8	6
35°	0	0
45°	0	0
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2885.0
1°	2867.3
2°	2834.6
3°	2782.0
4°	2709.4
5°	2584.7
6°	2419.2
7°	2214.9
8°	1968.5
9°	1678.7
10°	1374.0
11°	1080.2
12°	822.3
13°	618.0
14°	464.9
15°	339.3
17.5°	124.7
20°	44.2
22.5°	18.1
25°	8.4
27.5°	4.0
30°	2.2
32.5°	0.9
35°	0.4
37.5°	0.4
40°	0.4
42.5°	0.0
45°	0.0
47.5°	0.0
50°	0.0
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)