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: P211014

Luminaire Tested: **LSR4B10D010BZ EC4B10208050 4LBNB1**

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:	P211014
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LSR4B10D010BZ EC4B10208050 4LBNB1
Description:	PORTFOLIO 4 INCH CYLINDER
	NARROW DISTRIBUTION WITH SPECULAR BLACK TRIM
	WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
	DL3-11.1W DLE-11.39W
Light Source:	HIGH LUMEN LED
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	431.5 lumens
Efficiency:	N/A
Efficacy:	43.6 lumens/watt
Spacing Criteria (0/90/45):	0.62 / 0.62 / 0.79
Luminous Opening:	Point Source (0' x 0' x 0')
CIE Type:	Direct

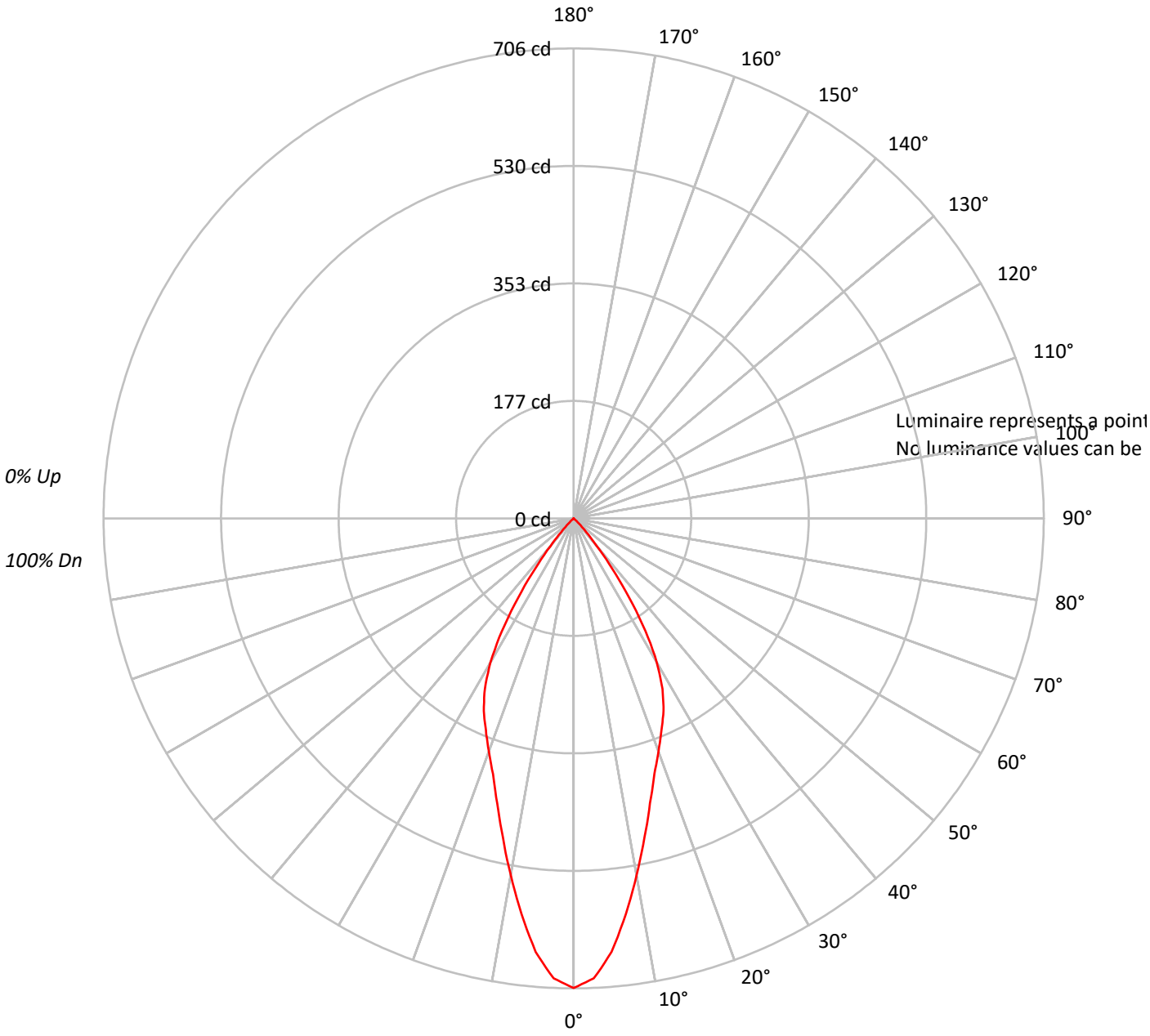
Input Watts (W):	9.9
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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

Scaled Data Report

TEST NUMBER: P211014
CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNB1

Luminous Intensity Polar Plot



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

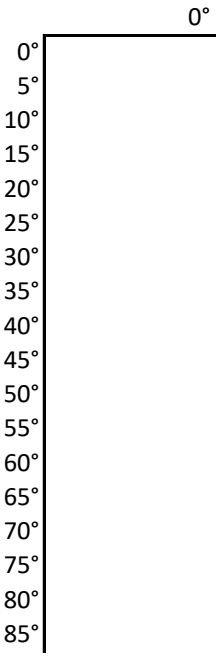
Scaled Data Report

TEST NUMBER: P211014
CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNB1

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	92	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	78	69	63	60	77	68	63	59	67	63	59	67	62	59	66	62	59	58
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

AVERAGE LUMINANCE (cd/sqm):



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

Scaled Data Report

TEST NUMBER: P211014
CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	13.6
10°-20°	124.7	28.9
20°-30°	144.7	33.5
30°-40°	90.6	21.0
40°-50°	12.8	3.0
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°	328.1	76.0
0°-40°	418.7	97.0
0°-60°	431.5	100.0
0°-90°	431.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	431.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	706	
5°	654	59
15°	443	125
25°	319	145
35°	145	91
45°	11	13
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	

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

Scaled Data Report

TEST NUMBER: P211014
CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	705.5
2.5°	691.6
5°	653.8
7.5°	599.5
10°	544.0
12.5°	491.0
15°	443.0
17.5°	402.6
20°	372.3
22.5°	344.6
25°	319.3
27.5°	289.0
30°	249.9
32.5°	200.7
35°	145.1
37.5°	94.7
40°	54.3
42.5°	27.8
45°	11.4
47.5°	2.5
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
85°	0.0
87.5°	0.0
90°	0.0

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

Report Generated By E9808895 / USPTCWHP6082093

0°-180°

(END OF REPORT)