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: P210878

Luminaire Tested: **LSR4B10D010BZ EC4B10209730 4LBSH1**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P210878
	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 EC4B10209730 4LBSH1
Description:	PORTFOLIO 4 INCH CYLINDER
	SHALLOW DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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:	786.9 lumens
Efficiency:	N/A
Efficacy:	79.5 lumens/watt
Spacing Criteria (0/90/45):	1.06 / 1.06 / 1.17
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

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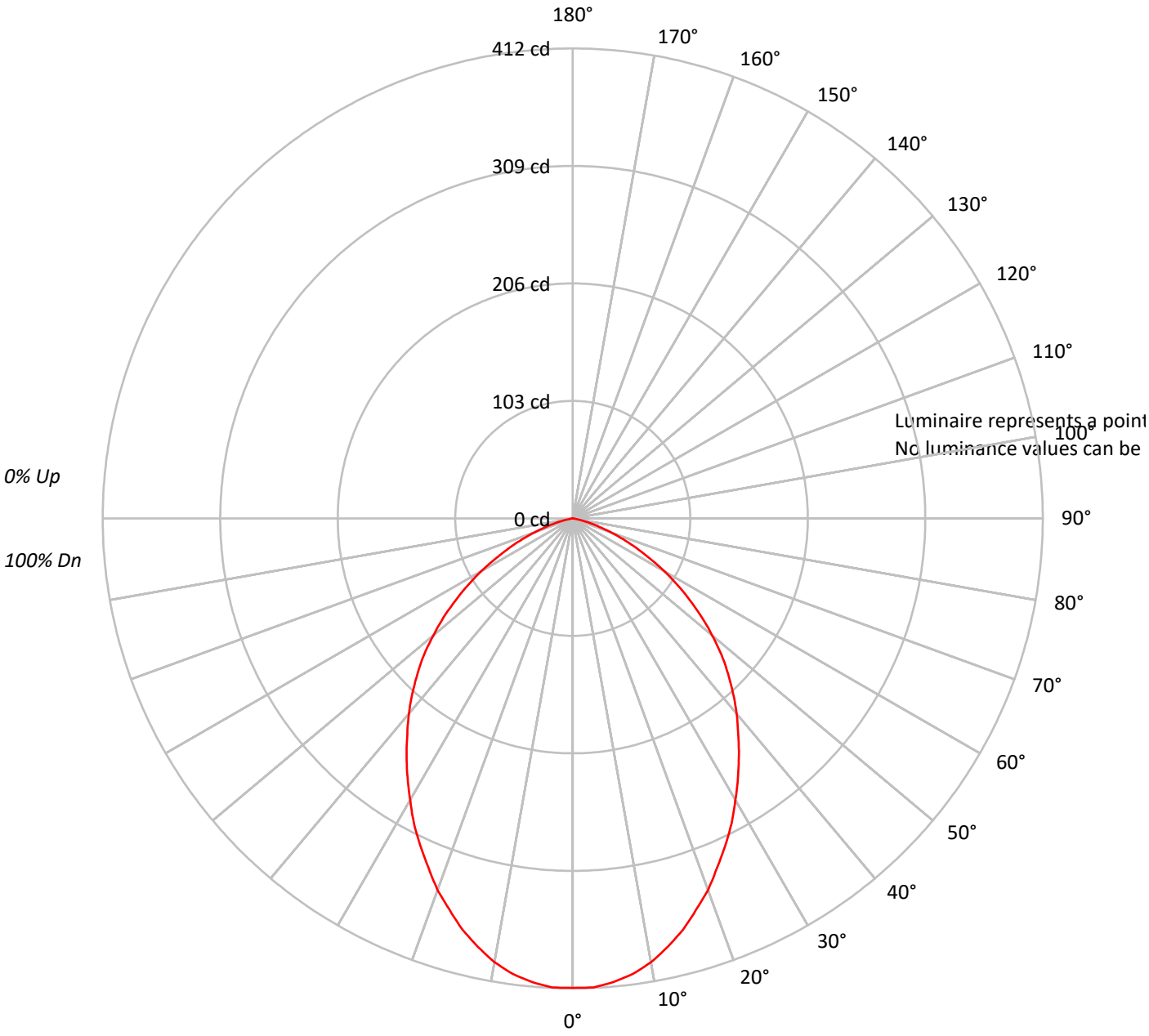
Luminous Intensity Polar Plot



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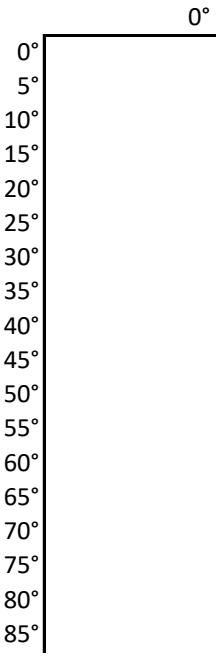
COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	4.9
10°-20°	104.8	13.3
20°-30°	145.5	18.5
30°-40°	158.8	20.2
40°-50°	148.1	18.8
50°-60°	112.4	14.3
60°-70°	61.6	7.8
70°-80°	16.9	2.2
80°-90°	0.2	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°	288.9	36.7
0°-40°	447.7	56.9
0°-60°	708.2	90.0
0°-90°	786.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	786.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	412	
5°	408	39
15°	373	105
25°	316	146
35°	254	159
45°	192	148
55°	126	112
65°	62	62
75°	15	17
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	411.6
2.5°	411.6
5°	408.1
7.5°	402.9
10°	395.1
12.5°	384.7
15°	373.4
17.5°	359.6
20°	346.6
22.5°	331.0
25°	316.3
27.5°	301.5
30°	285.1
32.5°	269.5
35°	253.9
37.5°	238.3
40°	223.5
42.5°	208.0
45°	192.4
47.5°	176.8
50°	159.4
52.5°	143.0
55°	125.6
57.5°	109.2
60°	92.7
62.5°	76.2
65°	61.5
67.5°	47.7
70°	35.5
72.5°	24.3
75°	14.7
77.5°	6.9
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)