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: P232475

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0WMH**

Issue Date: 3/3/2020

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Test Information

Test Method:	LM-41-14
Report Number:	P232475
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27685)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	io LED
Catalog Number:	LD4B10D010 EU4B10209030D2W 4LBM0WMH
Description:	4" MEDIUM D2W Dimmed to 3000K, with Warm Haze trim
Light Source:	(1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	575.1 lumens
Efficiency:	N/A
Efficacy:	58.1 lumens/watt
Spacing Criteria (0/90/45):	0.84 / 0.84 / 0.87
Luminous Opening:	Circular (Dia: 0.33' x H: 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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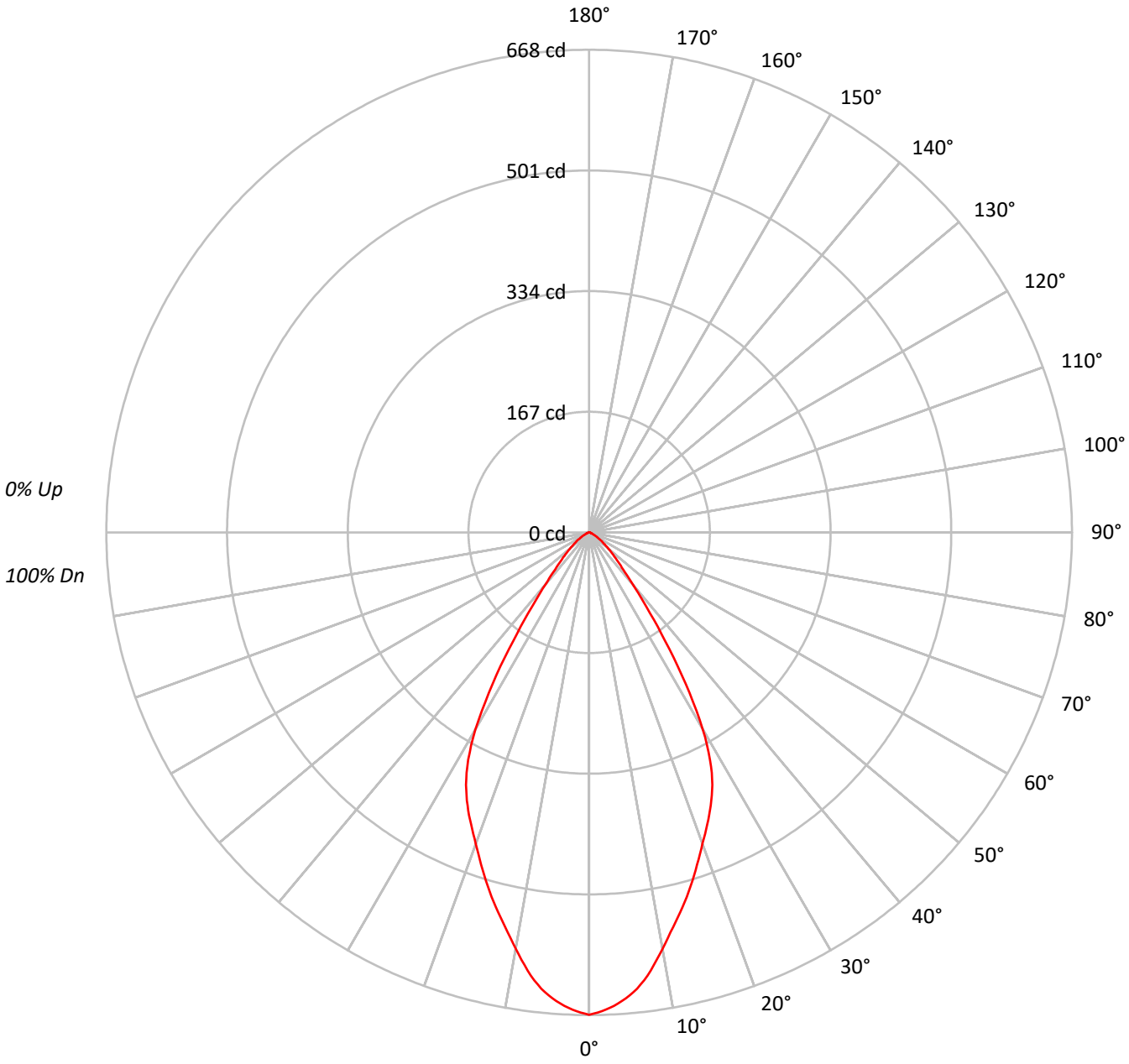
Luminous Intensity Polar Plot



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	80	75	71	78	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	66	73	69	65	72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	82359
5°	79665
10°	73284
15°	66684
20°	60185
25°	54671
30°	44794
35°	27496
40°	15007
45°	9385
50°	6544
55°	4409
60°	2812
65°	1780
70°	1082
75°	715
80°	568
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	10.4
10°-20°	145.9	25.4
20°-30°	181.6	31.6
30°-40°	117.3	20.4
40°-50°	44.0	7.7
50°-60°	18.7	3.3
60°-70°	6.2	1.1
70°-80°	1.7	0.3
80°-90°	0.1	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°	387.0	67.3
0°-40°	504.3	87.7
0°-60°	567.0	98.6
0°-90°	575.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	668	
5°	643	60
15°	522	146
25°	402	182
35°	183	117
45°	54	44
55°	20	19
65°	6	6
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	667.7
1°	664.7
2°	660.9
3°	656.3
4°	650.3
5°	643.4
6°	635.1
7°	624.5
8°	612.4
9°	598.7
10°	585.1
11°	571.4
12°	558.6
13°	546.4
14°	534.3
15°	522.2
16°	509.3
17°	496.4
18°	483.5
19°	470.6
20°	458.5
21°	447.1
22°	435.8
23°	425.2
24°	413.8
25°	401.7
26°	388.8
27°	373.6
28°	356.2
29°	336.5
30°	314.5
32.5°	248.6
35°	182.6
37.5°	129.6
40°	93.2
42.5°	69.7
45°	53.8
47.5°	43.2
50°	34.1
52.5°	25.8
55°	20.5
57.5°	15.2
60°	11.4

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	*3.8*
70°	*3.0*
72.5°	*2.3*
75°	*1.5*
77.5°	*0.8*
80°	*0.8*
82.5°	*0.0*
85°	*0.0*
87.5°	*0.0*
90°	*0.0*

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0°-180°

62.5°	*8.3*
65°	*6.1*

(END OF REPORT)