

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: P232472

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P232472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27692)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0W  
Description: 4" MEDIUM D2W Dimmed to 3000K, with White trim  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 729.5 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.89  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

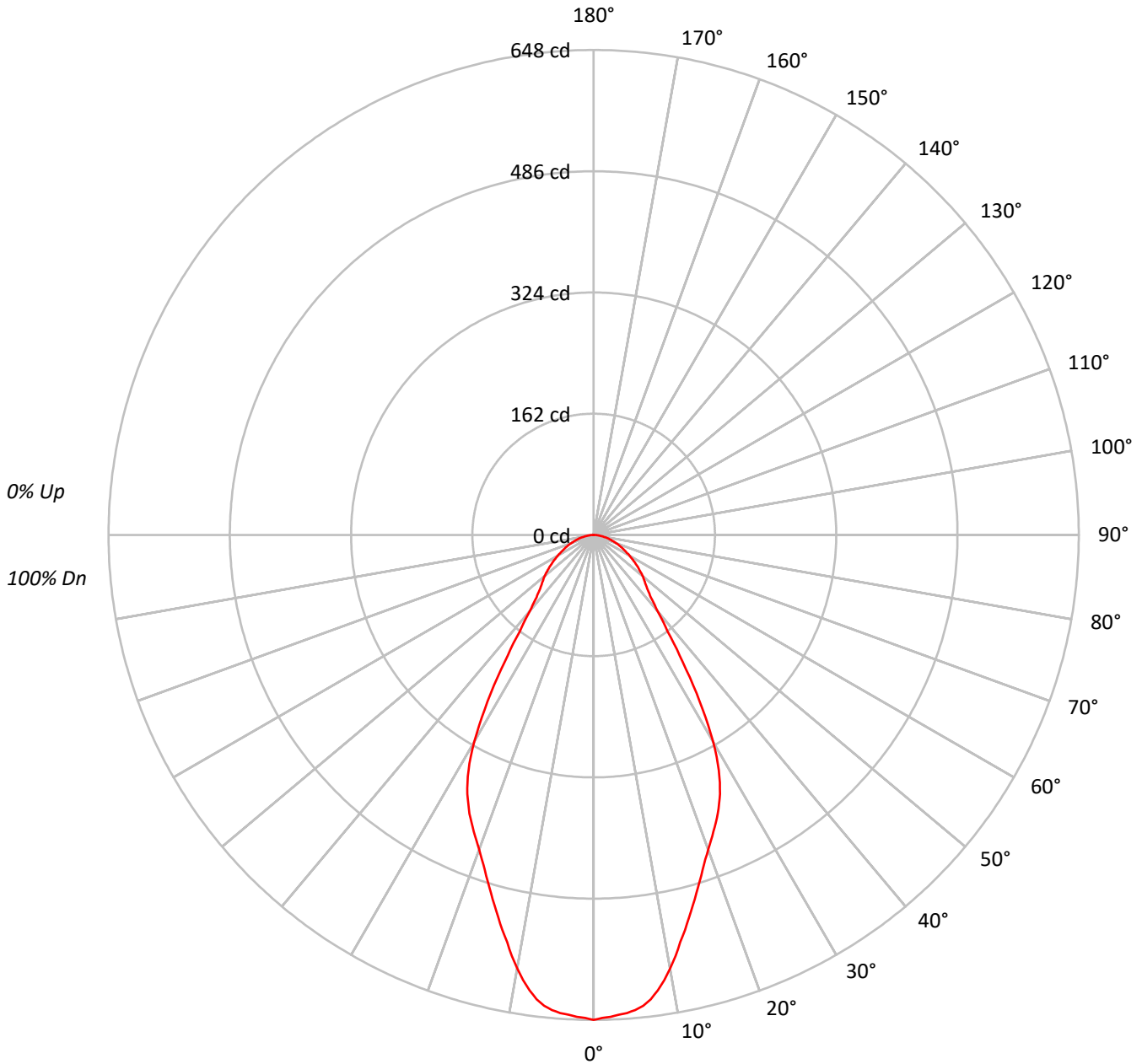
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
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	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	62	56	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	54	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	44	41	39

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	79929
5°	78922
10°	73660
15°	65420
20°	58688
25°	53950
30°	45449
35°	31155
40°	21238
45°	17584
50°	16426
55°	14989
60°	13642
65°	12375
70°	11469
75°	10485
80°	9163
85°	8633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	8.1
10°-20°	143.5	19.7
20°-30°	179.7	24.6
30°-40°	132.4	18.2
40°-50°	79.9	10.9
50°-60°	62.4	8.6
60°-70°	42.4	5.8
70°-80°	23.3	3.2
80°-90°	6.5	0.9
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°	382.6	52.4
0°-40°	515.0	70.6
0°-60°	657.3	90.1
0°-90°	729.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	648	
5°	637	59
15°	512	144
25°	396	180
35°	207	132
45°	101	80
55°	70	62
65°	42	42
75°	22	23
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	648.0
1°	645.7
2°	644.2
3°	641.9
4°	640.4
5°	637.4
6°	632.8
7°	625.2
8°	614.6
9°	602.5
10°	588.1
11°	573.0
12°	556.3
13°	541.9
14°	526.7
15°	512.3
16°	497.9
17°	484.3
18°	470.6
19°	458.5
20°	447.1
21°	437.3
22°	427.4
23°	417.6
24°	407.7
25°	396.4
26°	385.0
27°	371.4
28°	356.2
29°	338.8
30°	319.1
32.5°	263.7
35°	206.9
37.5°	162.2
40°	131.9
42.5°	112.9
45°	100.8
47.5°	92.5
50°	85.6
52.5°	77.3
55°	69.7
57.5°	62.1
60°	55.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	37.1
70°	31.8
72.5°	26.5
75°	22.0
77.5°	17.4
80°	12.9
82.5°	9.1
85°	6.1
87.5°	2.3
90°	0.0



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— 0°-180°







62.5°		48.5
65°		42.4



(END OF REPORT)