

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: P232477

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBN0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P232477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27669)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBN0LI  
Description: 4" NARROW D2W Dimmed to 3000K, with specular clear trim  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 564.4 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.47  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

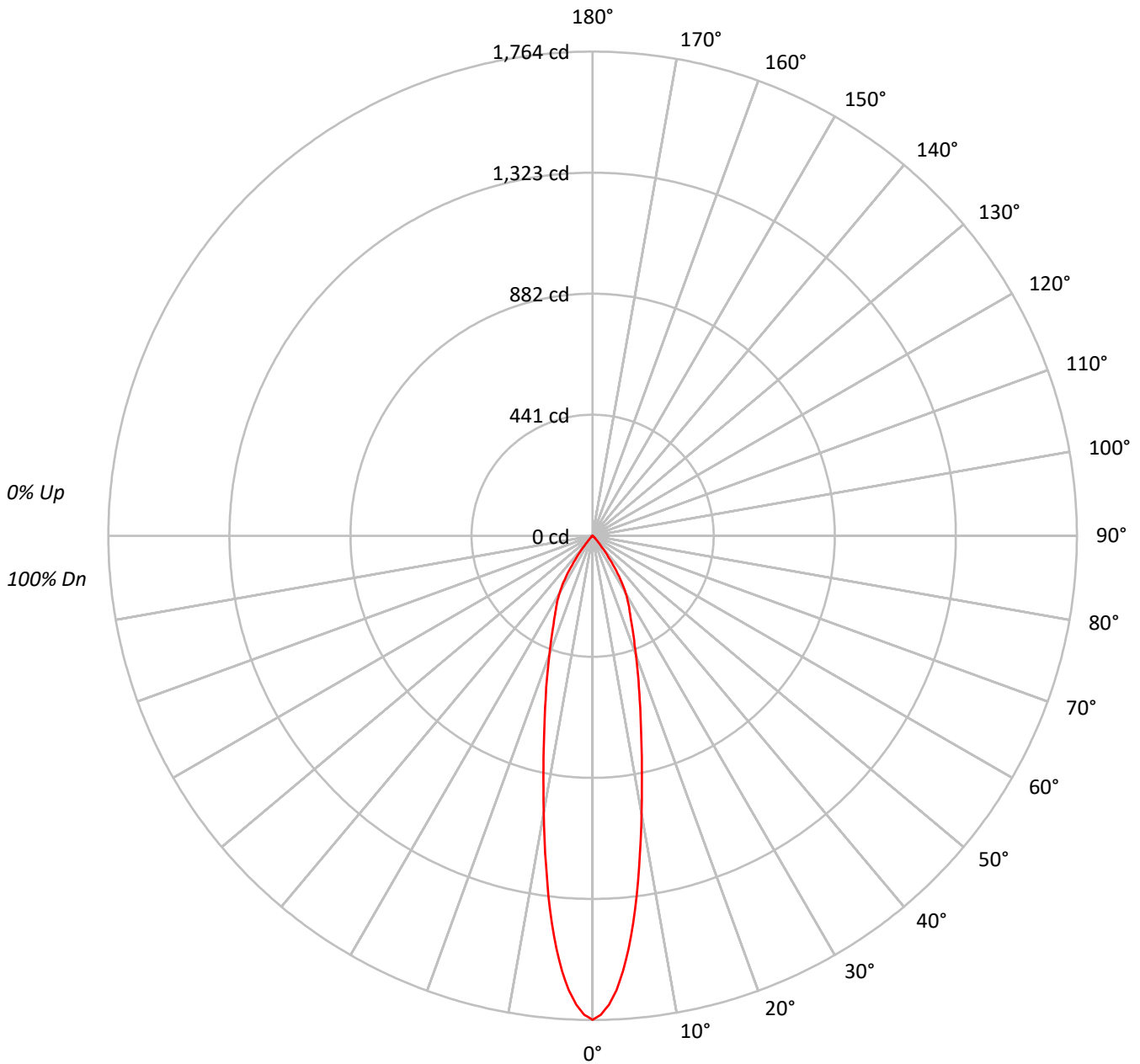
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			90
3	105	100	95	92	103	98	94	91	96	93	90	93	91	88	91	89	87	86			86
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81			81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77			77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74			74
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70			70
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67			67
9	83	75	70	66	82	74	69	66	73	69	66	73	69	66	72	68	66	64			64
10	80	72	67	63	79	71	67	63	70	66	63	70	66	63	69	66	63	62			62

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

	0°
0°	217536
5°	186880
10°	128470
15°	85878
20°	60421
25°	44559
30°	34354
35°	19440
40°	6489
45°	2198
50°	729
55°	280
60°	148
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	22.6
10°-20°	189.1	33.5
20°-30°	152.6	27.0
30°-40°	81.5	14.4
40°-50°	12.0	2.1
50°-60°	1.2	0.2
60°-70°	0.2	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°	469.5	83.2
0°-40°	551.0	97.6
0°-60°	564.2	100.0
0°-90°	564.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1764	
5°	1509	128
15°	672	189
25°	327	153
35°	129	82
45°	13	12
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1763.6
1°	1745.4
2°	1709.5
3°	1657.9
4°	1590.5
5°	1509.3
6°	1418.6
7°	1320.4
8°	1217.7
9°	1118.9
10°	1025.7
11°	939.4
12°	860.7
13°	792.1
14°	728.5
15°	672.5
16°	622.1
17°	577.4
18°	535.2
19°	496.2
20°	460.3
21°	427.5
22°	398.6
23°	372.8
24°	349.5
25°	327.4
26°	309.2
27°	292.2
28°	275.8
29°	258.8
30°	241.2
32.5°	189.5
35°	129.1
37.5°	76.2
40°	40.3
42.5°	21.4
45°	12.6
47.5°	7.6
50°	3.8
52.5°	1.3
55°	1.3
57.5°	0.6
60°	0.6



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**CANDELA DISTRIBUTION (continued):**

	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



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— 0°-180°







62.5°		0.6
65°		0.0



(END OF REPORT)