

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: P232468

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P232468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27691)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0B  
Description: 4" MEDIUM D2W Dimmed to 3000K, with Black trim  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 365.6 lumens  
Efficiency: N/A  
Efficacy: 36.9 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.81  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

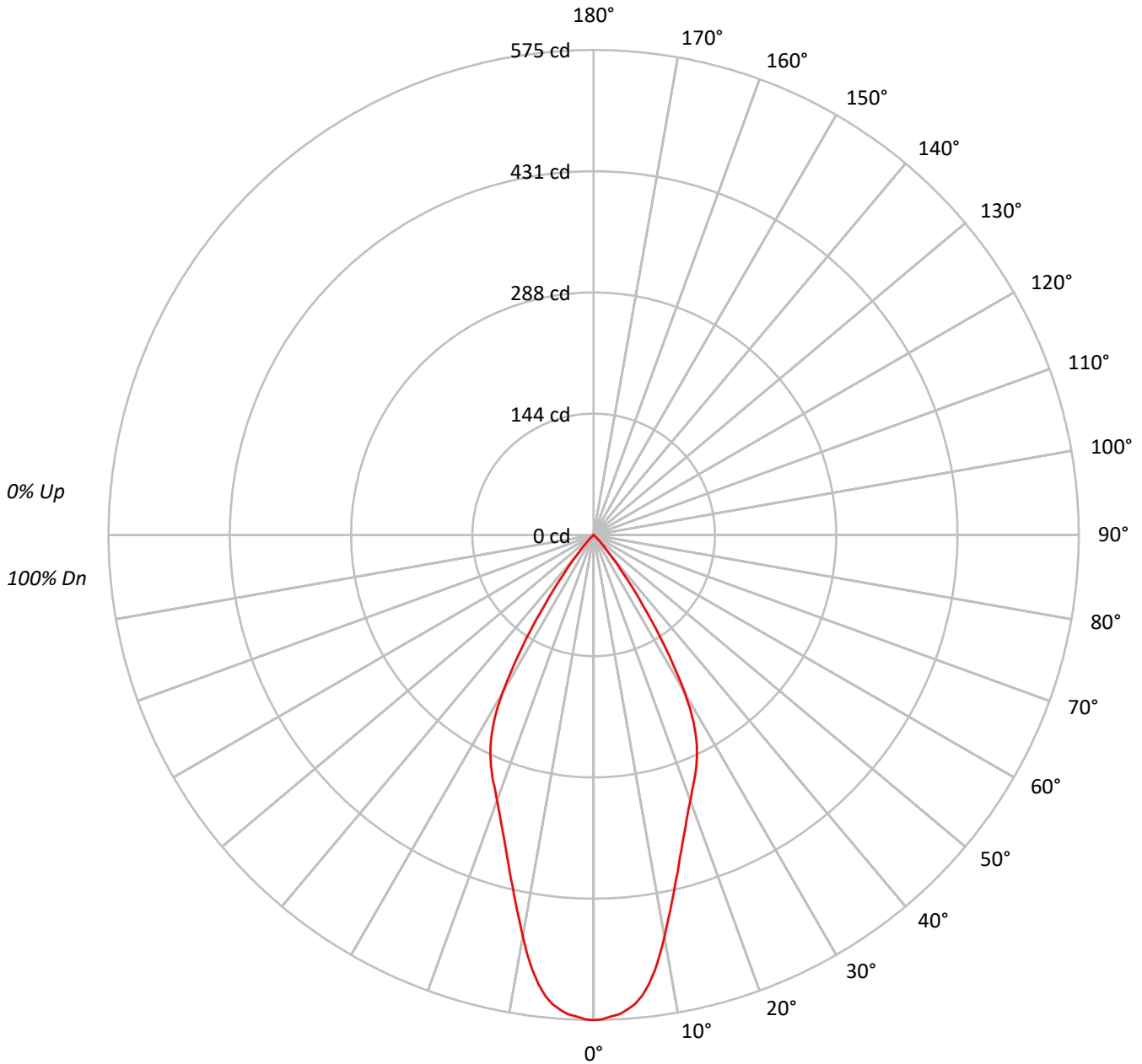
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94			
2	109	104	101	97	107	103	99	96	99	97	94	97	94	92	94	92	90	89			
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83			
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70			
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66			
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62			
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59			
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56			

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

	0°
0°	70950
5°	69165
10°	60559
15°	50518
20°	43973
25°	39401
30°	30651
35°	15178
40°	4766
45°	925
50°	154
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	13.9
10°-20°	111.2	30.4
20°-30°	130.2	35.6
30°-40°	66.5	18.2
40°-50°	6.6	1.8
50°-60°	0.1	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°	292.4	80.0
0°-40°	358.9	98.2
0°-60°	365.6	100.0
0°-90°	365.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	365.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	575	
5°	559	51
15°	396	111
25°	290	130
35°	101	67
45°	5	7
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	575.2
1°	574.5
2°	571.4
3°	569.2
4°	564.6
5°	558.6
6°	549.5
7°	536.6
8°	521.4
9°	503.2
10°	483.5
11°	463.8
12°	445.6
13°	427.4
14°	411.5
15°	395.6
16°	381.2
17°	368.3
18°	356.2
19°	344.8
20°	335.0
21°	325.1
22°	316.8
23°	308.5
24°	299.4
25°	289.5
26°	278.9
27°	266.8
28°	252.4
29°	235.7
30°	215.2
32.5°	157.6
35°	100.8
37.5°	57.6
40°	29.6
42.5°	13.6
45°	5.3
47.5°	1.5
50°	0.8
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0



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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°		0.0
65°		0.0



(END OF REPORT)