

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: P232473

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P232473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27687)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0WH  
Description: 4" MEDIUM D2W Dimmed to 3000K, with Wheat trim  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 679.6 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.71  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

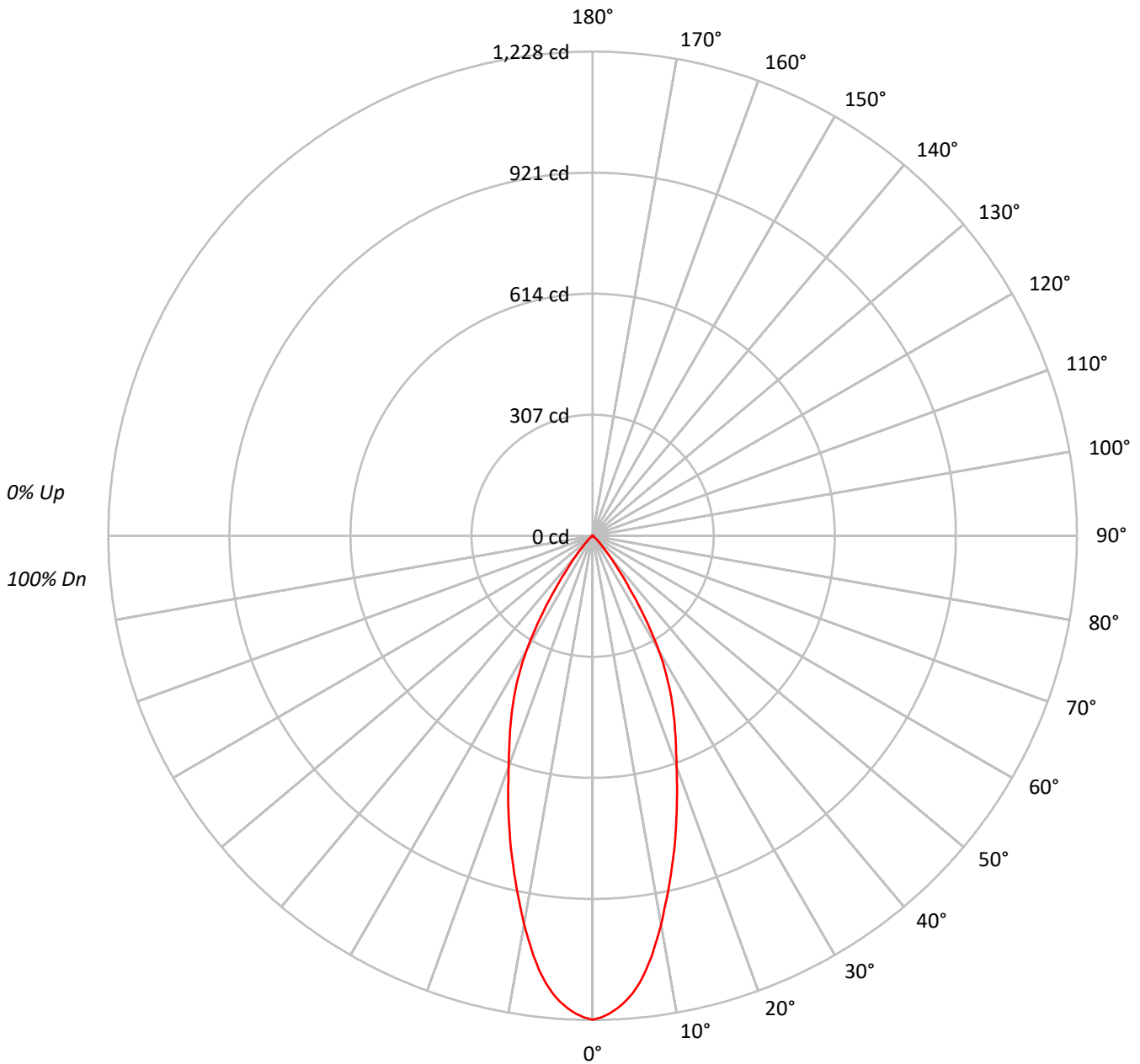
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	151446
5°	144237
10°	125301
15°	102874
20°	81777
25°	65396
30°	47600
35°	24770
40°	9999
45°	3838
50°	1305
55°	495
60°	370
65°	233
70°	289
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	15.6
10°-20°	222.9	32.8
20°-30°	218.1	32.1
30°-40°	108.5	16.0
40°-50°	20.1	3.0
50°-60°	2.8	0.4
60°-70°	1.0	0.2
70°-80°	0.3	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°	546.9	80.5
0°-40°	655.4	96.4
0°-60°	678.3	99.8
0°-90°	679.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1228	
5°	1165	106
15°	806	223
25°	480	218
35°	164	109
45°	22	20
55°	2	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1227.8
1°	1221.7
2°	1212.6
3°	1200.5
4°	1184.6
5°	1164.9
6°	1139.8
7°	1110.3
8°	1076.2
9°	1038.3
10°	1000.4
11°	959.5
12°	920.8
13°	881.4
14°	843.5
15°	805.6
16°	767.0
17°	729.8
18°	692.7
19°	656.3
20°	623.0
21°	591.1
22°	562.3
23°	535.1
24°	507.8
25°	480.5
26°	454.0
27°	425.9
28°	397.1
29°	366.8
30°	334.2
32.5°	247.1
35°	164.5
37.5°	103.1
40°	62.1
42.5°	37.1
45°	22.0
47.5°	12.9
50°	6.8
52.5°	3.8
55°	2.3
57.5°	2.3
60°	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
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°		1.5
65°		0.8



(END OF REPORT)