

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: P232471

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P232471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27670)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0LI  
Description: 4" MEDIUM 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: 746.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.69  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

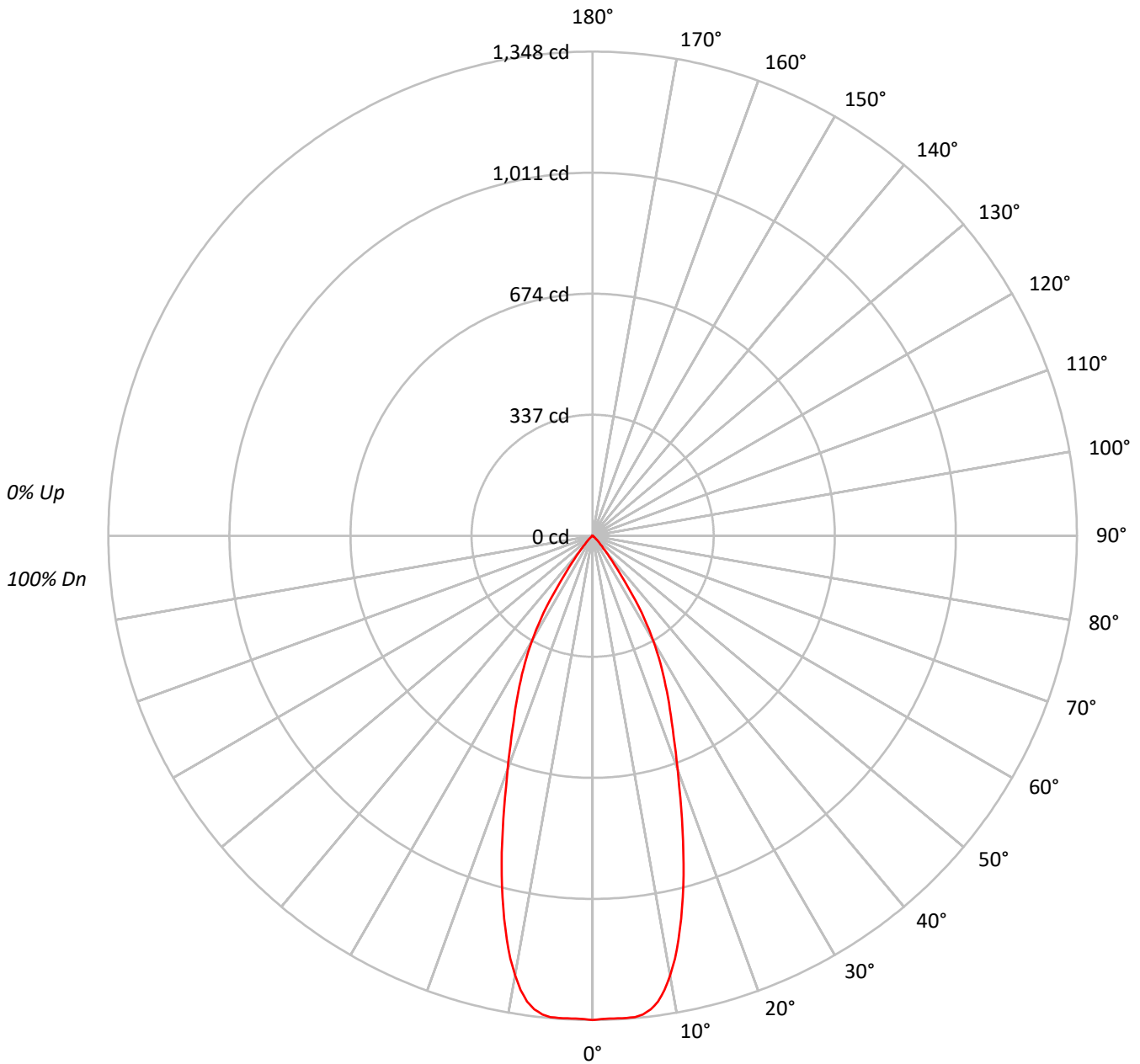
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90			
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85			
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	81	80			
5	96	88	83	80	94	88	83	79	86	82	78	84	81	78	83	80	77	76			
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72			
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65			
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62			
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59			

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

	0°
0°	166310
5°	166561
10°	155674
15°	124851
20°	90730
25°	67464
30°	48255
35°	23506
40°	8292
45°	3175
50°	1458
55°	323
60°	197
65°	233
70°	289
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	16.8
10°-20°	267.3	35.8
20°-30°	227.4	30.5
30°-40°	105.6	14.2
40°-50°	17.0	2.3
50°-60°	2.2	0.3
60°-70°	0.8	0.1
70°-80°	0.1	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°	620.2	83.1
0°-40°	725.8	97.3
0°-60°	745.1	99.9
0°-90°	746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	746.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1348	
5°	1345	126
15°	978	267
25°	496	227
35°	156	106
45°	18	17
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1348.3
1°	1346.0
2°	1345.2
3°	1345.2
4°	1346.0
5°	1345.2
6°	1339.9
7°	1328.6
8°	1309.6
9°	1280.1
10°	1242.9
11°	1199.7
12°	1149.7
13°	1094.4
14°	1037.5
15°	977.7
16°	917.0
17°	855.6
18°	796.5
19°	741.2
20°	691.2
21°	645.0
22°	602.5
23°	563.9
24°	529.0
25°	495.7
26°	463.8
27°	432.7
28°	401.7
29°	369.8
30°	338.8
32.5°	254.6
35°	156.1
37.5°	90.2
40°	51.5
42.5°	30.3
45°	18.2
47.5°	12.1
50°	7.6
52.5°	3.0
55°	1.5
57.5°	1.5
60°	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.8
70°	0.8
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°		0.8
65°		0.8



(END OF REPORT)