

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: P232470

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P232470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27682)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0H  
Description: 4" MEDIUM D2W Dimmed to 3000K, with Haze trim  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 626.2 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

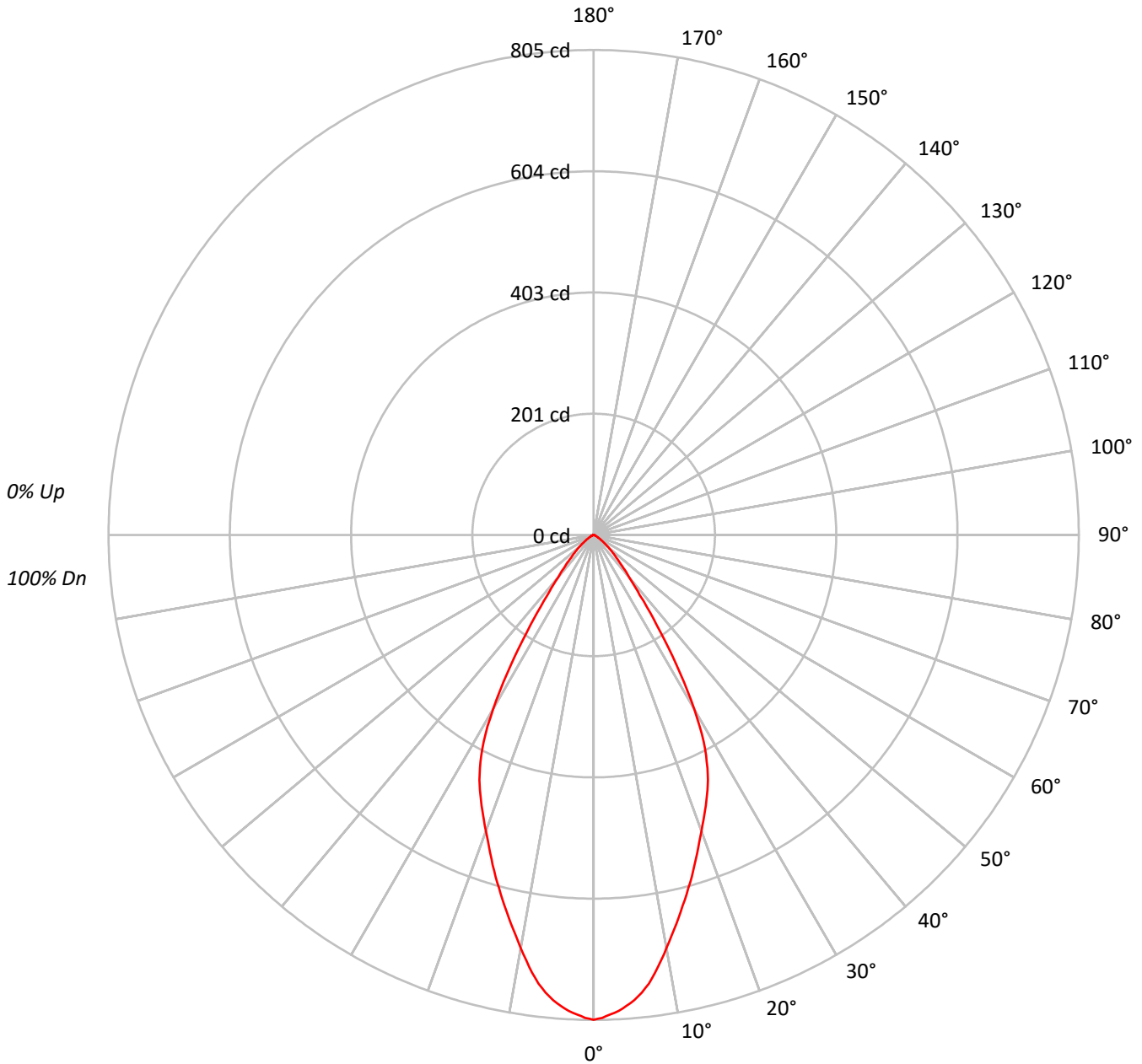
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P232470

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0H

### Luminous Intensity Polar Plot





TEST NUMBER: P232470

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0H

**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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

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

	0°
0°	99283
5°	95997
10°	87237
15°	77526
20°	68638
25°	61068
30°	47500
35°	27390
40°	14765
45°	9263
50°	5968
55°	3591
60°	2048
65°	1313
70°	829
75°	381
80°	568
85°	0



TEST NUMBER: P232470

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	11.4
10°-20°	169.6	27.1
20°-30°	201.7	32.2
30°-40°	118.8	19.0
40°-50°	43.0	6.9
50°-60°	15.6	2.5
60°-70°	4.7	0.7
70°-80°	1.2	0.2
80°-90°	0.1	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°	442.8	70.7
0°-40°	561.6	89.7
0°-60°	620.2	99.0
0°-90°	626.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	626.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	805	
5°	775	71
15°	607	170
25°	449	202
35°	182	119
45°	53	43
55°	17	16
65°	4	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P232470

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	804.9
1°	801.8
2°	796.5
3°	791.2
4°	783.6
5°	775.3
6°	763.9
7°	750.3
8°	733.6
9°	715.4
10°	696.5
11°	677.5
12°	660.1
13°	641.9
14°	624.5
15°	607.1
16°	590.4
17°	573.0
18°	555.5
19°	538.1
20°	522.9
21°	507.8
22°	493.4
23°	479.0
24°	463.8
25°	448.7
26°	430.5
27°	410.8
28°	388.8
29°	363.0
30°	333.5
32.5°	255.4
35°	181.9
37.5°	125.8
40°	91.7
42.5°	69.7
45°	53.1
47.5°	40.9
50°	31.1
52.5°	22.7
55°	16.7
57.5°	11.4
60°	8.3



TEST NUMBER: P232470

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0H

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.0
70°	2.3
72.5°	1.5
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







62.5°		6.1
65°		4.5



(END OF REPORT)