

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: P232478

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27683)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBW0H
Description: 4" WIDE 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: 777.8 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

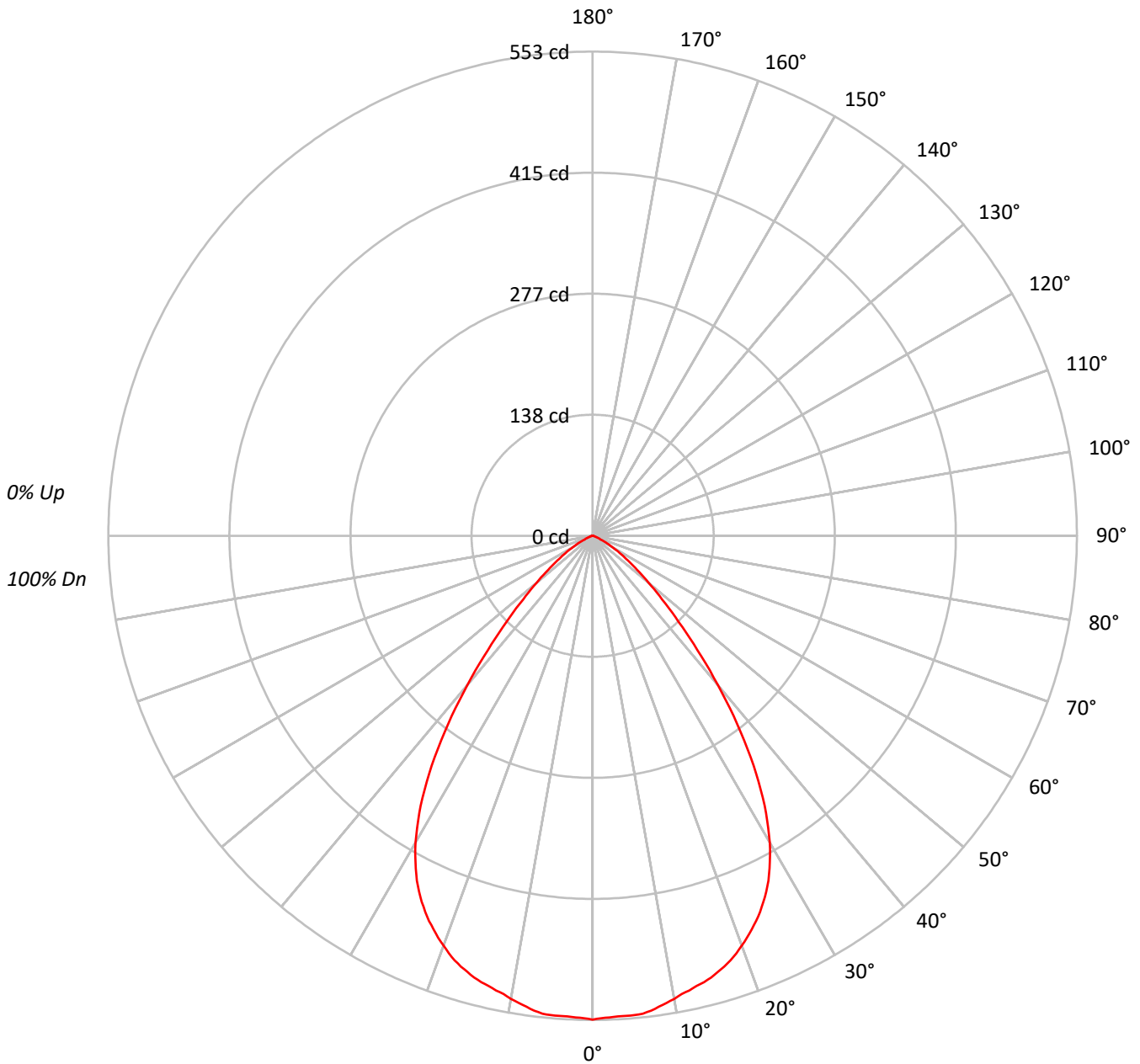
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232478

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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	63	59	68	63	59	66	62	58	57			
7	77	66	59	55	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	52	47	43	52	46	42	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68174
5°	68051
10°	67272
15°	66697
20°	65383
25°	62810
30°	57627
35°	48246
40°	35778
45°	24212
50°	16004
55°	10559
60°	6537
65°	2948
70°	1695
75°	763
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	6.7
10°-20°	147.0	18.9
20°-30°	210.7	27.1
30°-40°	197.3	25.4
40°-50°	110.1	14.2
50°-60°	45.4	5.8
60°-70°	12.6	1.6
70°-80°	2.4	0.3
80°-90°	0.3	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°	409.7	52.7
0°-40°	607.0	78.0
0°-60°	762.5	98.0
0°-90°	777.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	553	
5°	550	52
15°	522	147
25°	462	211
35°	320	197
45°	139	110
55°	49	45
65°	10	13
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	552.7
1°	551.1
2°	550.4
3°	549.6
4°	549.6
5°	549.6
6°	548.8
7°	546.5
8°	543.3
9°	540.2
10°	537.1
11°	533.2
12°	530.9
13°	527.8
14°	525.4
15°	522.3
16°	518.4
17°	514.5
18°	509.8
19°	504.4
20°	498.1
21°	491.9
22°	484.9
23°	477.9
24°	470.1
25°	461.5
26°	452.1
27°	442.0
28°	430.3
29°	417.8
30°	404.6
32.5°	365.6
35°	320.4
37.5°	271.3
40°	222.2
42.5°	177.0
45°	138.8
47.5°	107.6
50°	83.4
52.5°	63.9
55°	49.1
57.5°	36.6
60°	26.5



TEST NUMBER: P232478

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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.0
70°	4.7
72.5°	3.1
75°	1.6
77.5°	1.6
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		18.7
65°		10.1



(END OF REPORT)