

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: P232476

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBN0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27673)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBN0H
Description: 4" NARROW 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: 526.2 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.69
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

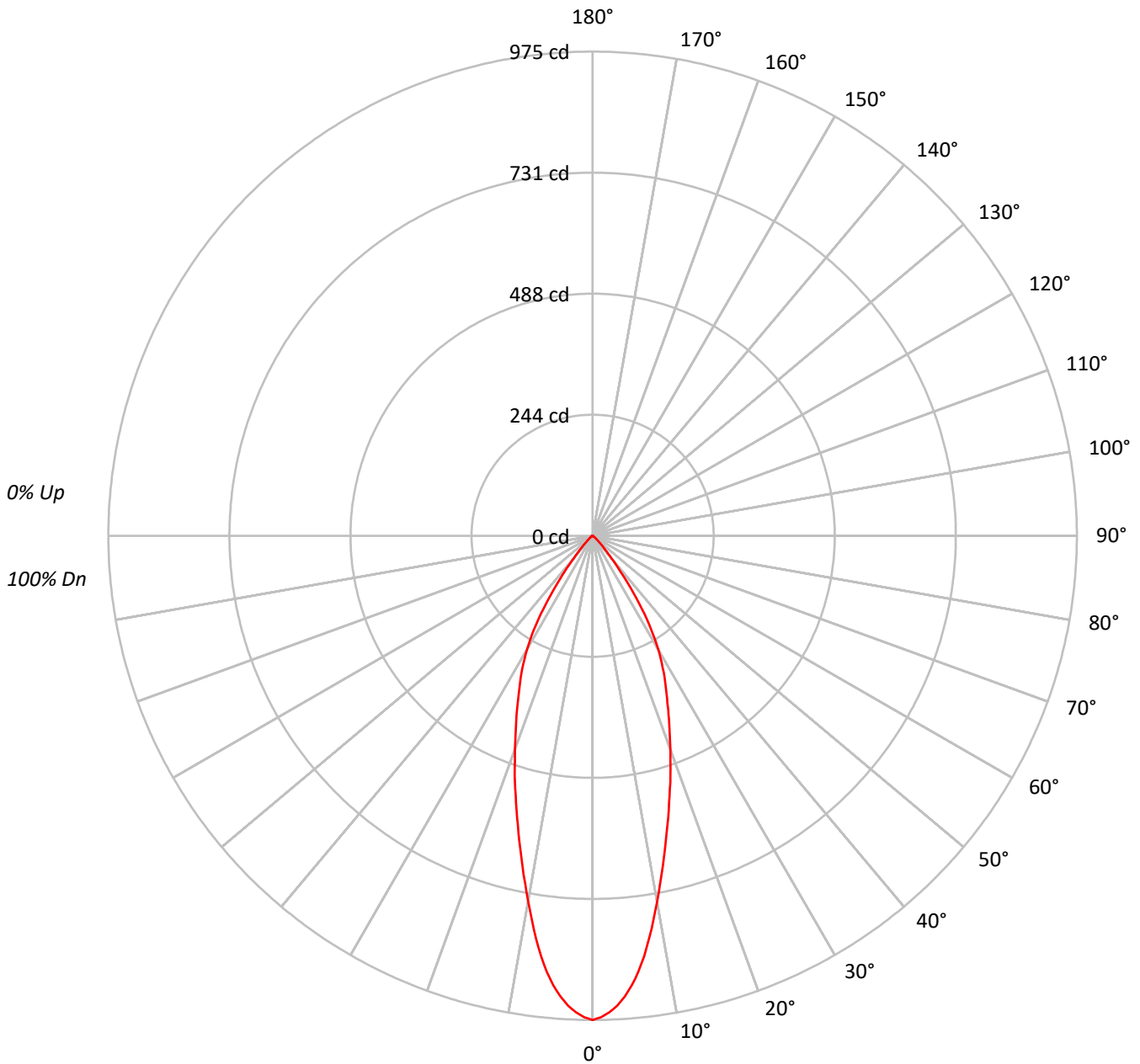
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	81	85	82	80	78			
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74			
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69			
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66			
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62			
9	79	70	64	61	78	70	64	61	69	64	60	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°	120301
5°	112502
10°	93612
15°	75023
20°	60001
25°	47907
30°	37673
35°	23129
40°	9436
45°	3628
50°	1458
55°	667
60°	469
65°	175
70°	216
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	15.5
10°-20°	163.6	31.1
20°-30°	161.9	30.8
30°-40°	95.8	18.2
40°-50°	19.1	3.6
50°-60°	3.3	0.6
60°-70°	0.9	0.2
70°-80°	0.2	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°	406.9	77.3
0°-40°	502.8	95.5
0°-60°	525.1	99.8
0°-90°	526.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	975	
5°	909	81
15°	588	164
25°	352	162
35°	154	96
45°	21	19
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	975.3
1°	969.7
2°	960.2
3°	947.6
4°	930.0
5°	908.6
6°	882.8
7°	852.5
8°	818.5
9°	783.3
10°	747.4
11°	712.8
12°	680.0
13°	647.3
14°	616.4
15°	587.5
16°	559.1
17°	532.7
18°	507.5
19°	481.0
20°	457.1
21°	433.8
22°	411.8
23°	391.6
24°	370.9
25°	352.0
26°	334.3
27°	318.0
28°	300.3
29°	282.7
30°	264.5
32.5°	212.8
35°	153.6
37.5°	98.9
40°	58.6
42.5°	34.0
45°	20.8
47.5°	13.2
50°	7.6
52.5°	4.4
55°	3.1
57.5°	2.5
60°	1.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
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°		1.3
65°		0.6



(END OF REPORT)