

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: P232479

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27671)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBW0LI
Description: 4" WIDE 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: 816.9 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.09
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

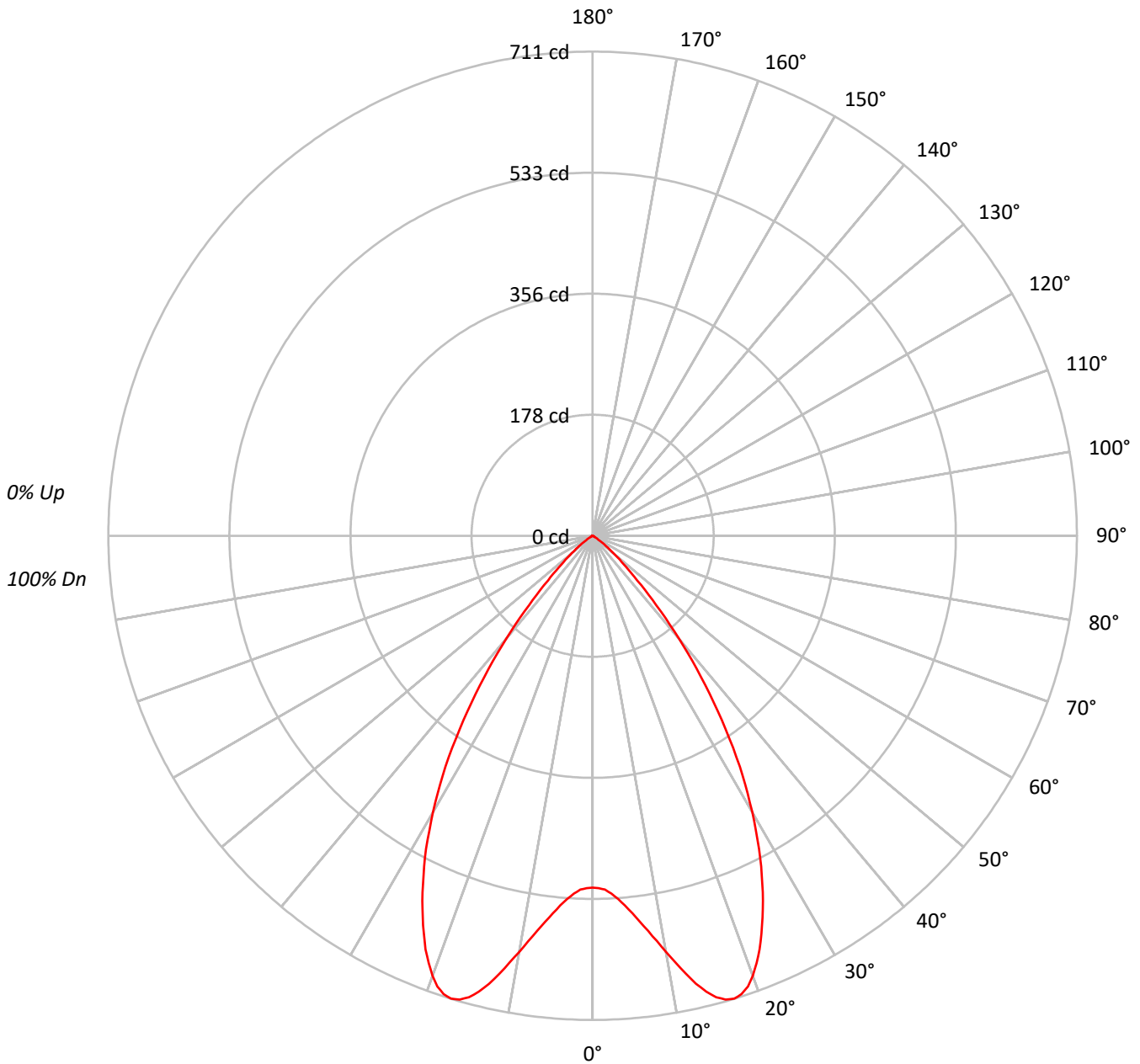
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86			86
3	101	94	89	85	99	93	88	84	90	86	83	88	85	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67			67
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62			62
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57			57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	63746
5°	67469
10°	77718
15°	89594
20°	90257
25°	80530
30°	66728
35°	49767
40°	31624
45°	16188
50°	7637
55°	2860
60°	765
65°	233
70°	289
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	6.7
10°-20°	195.2	23.9
20°-30°	268.7	32.9
30°-40°	204.9	25.1
40°-50°	77.8	9.5
50°-60°	14.5	1.8
60°-70°	1.3	0.2
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°	518.3	63.5
0°-40°	723.2	88.5
0°-60°	815.5	99.8
0°-90°	816.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	816.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	517	
5°	545	54
15°	702	195
25°	592	269
35°	330	205
45°	93	78
55°	13	14
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	516.8
1°	517.6
2°	520.0
3°	526.2
4°	534.8
5°	544.9
6°	557.4
7°	571.4
8°	586.2
9°	602.6
10°	620.5
11°	638.5
12°	657.2
13°	675.1
14°	689.9
15°	701.6
16°	708.6
17°	710.9
18°	707.8
19°	700.0
20°	687.6
21°	672.0
22°	654.8
23°	634.6
24°	613.5
25°	591.7
26°	568.3
27°	544.9
28°	520.7
29°	494.2
30°	468.5
32.5°	402.2
35°	330.5
37.5°	261.1
40°	196.4
42.5°	138.0
45°	92.8
47.5°	61.6
50°	39.8
52.5°	24.9
55°	13.3
57.5°	6.2
60°	3.1



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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°		1.6
65°		0.8



(END OF REPORT)