

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: P232481

Luminaire Tested: **LD4B20D010 EU4B10209030D2W 4LBM0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B20D010 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: 1421.8 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.69
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

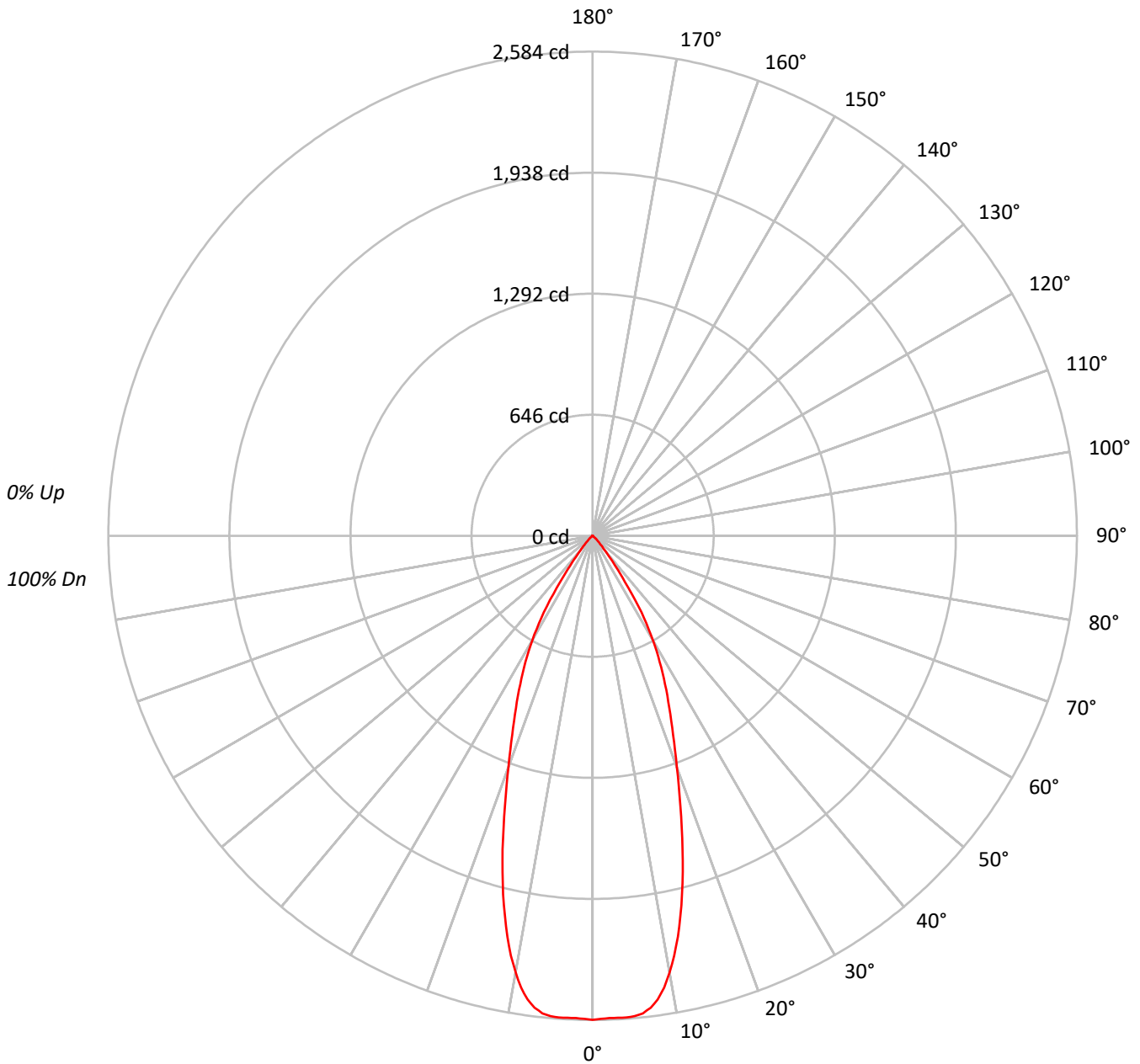
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95				95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90				90
3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85				85
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80				80
5	96	88	83	79	94	88	83	79	86	82	78	84	81	78	83	80	77	76				76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72				72
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	70	68				68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65				65
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62				62
10	78	69	64	61	77	69	64	61	68	64	60	67	63	60	67	63	60	59				59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	318681
5°	318685
10°	296456
15°	237214
20°	172507
25°	128314
30°	91639
35°	45309
40°	15989
45°	6210
50°	2917
55°	817
60°	567
65°	438
70°	289
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	16.9
10°-20°	508.2	35.7
20°-30°	432.2	30.4
30°-40°	202.2	14.2
40°-50°	32.9	2.3
50°-60°	4.6	0.3
60°-70°	1.3	0.1
70°-80°	0.5	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°	1180.3	83.0
0°-40°	1382.5	97.2
0°-60°	1420.0	99.9
0°-90°	1421.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2584	
5°	2574	240
15°	1858	508
25°	943	432
35°	301	202
45°	36	33
55°	4	5
65°	2	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2583.6
1°	2578.3
2°	2576.0
3°	2576.0
4°	2576.8
5°	2573.8
6°	2563.1
7°	2538.1
8°	2498.7
9°	2441.9
10°	2366.9
11°	2283.5
12°	2187.2
13°	2082.6
14°	1972.8
15°	1857.6
16°	1741.6
17°	1626.4
18°	1515.0
19°	1410.4
20°	1314.2
21°	1224.7
22°	1145.9
23°	1072.4
24°	1005.7
25°	942.8
26°	881.4
27°	821.5
28°	762.4
29°	703.3
30°	643.4
32.5°	485.0
35°	300.9
37.5°	175.1
40°	99.3
42.5°	57.6
45°	35.6
47.5°	23.5
50°	15.2
52.5°	5.3
55°	3.8
57.5°	3.0
60°	2.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	0.8
70°	0.8
72.5°	0.8
75°	0.8
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°		1.5
65°		1.5



(END OF REPORT)