

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: P223995

Luminaire Tested: **LD2B10D010 EU2B10SP158050 2LBDC*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (150)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10SP158050 2LBDC*MW
Description: 1000 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
CAST ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 624.4 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

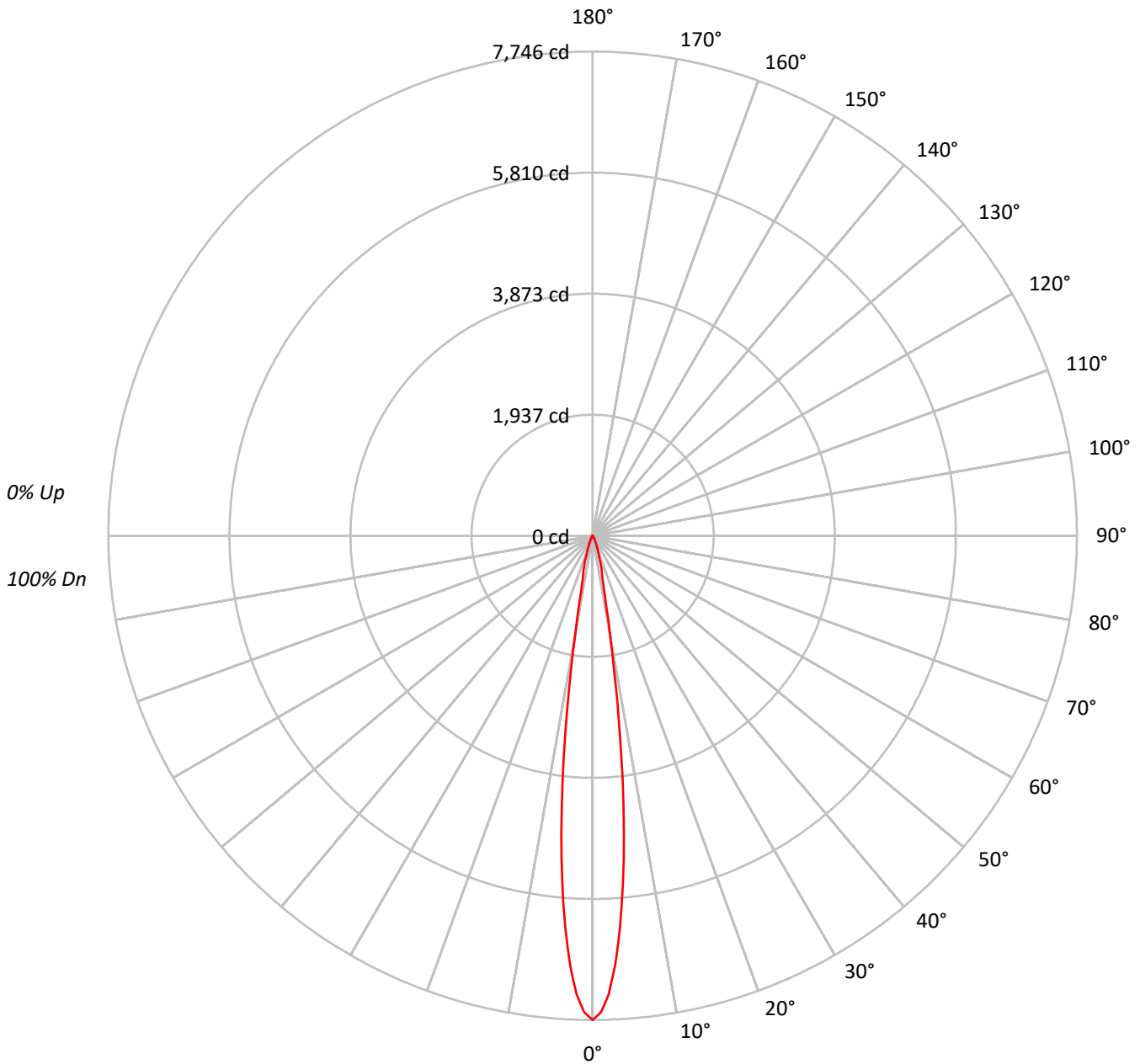
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98				98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96				96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94				94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93				93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91				91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90				90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88				88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	89	88	87				87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86				86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85				85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3000382
5°	2168986
10°	631438
15°	221558
20°	94848
25°	42696
30°	16504
35°	8228
40°	5512
45°	3561
50°	1989
55°	1486
60°	852
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.7	63.2
10°-20°	160.6	25.7
20°-30°	49.3	7.9
30°-40°	12.2	1.9
40°-50°	5.1	0.8
50°-60°	2.2	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	604.6	96.8
0°-40°	616.8	98.8
0°-60°	624.0	99.9
0°-90°	624.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7746	
5°	5578	395
15°	552	161
25°	100	49
35°	17	12
45°	6	5
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7746.0
1°	7627.7
2°	7338.9
3°	6878.7
4°	6277.3
5°	5578.3
6°	4790.2
7°	3934.9
8°	3067.6
9°	2256.7
10°	1605.4
11°	1150.6
12°	865.1
13°	704.5
14°	616.6
15°	552.5
17.5°	340.8
20°	230.1
22.5°	154.1
25°	99.9
27.5°	60.8
30°	36.9
32.5°	23.9
35°	17.4
37.5°	14.1
40°	10.9
42.5°	8.7
45°	6.5
47.5°	4.3
50°	3.3
52.5°	3.3
55°	2.2
57.5°	2.2
60°	1.1
62.5°	1.1
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)