

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: P224157

Luminaire Tested: **LD2B10D010 EU2B10SP158027 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224157  
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 EU2B10SP158027 2LBDSQC\*MB  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 537.7 lumens  
Efficiency: N/A  
Efficacy: 52.2 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

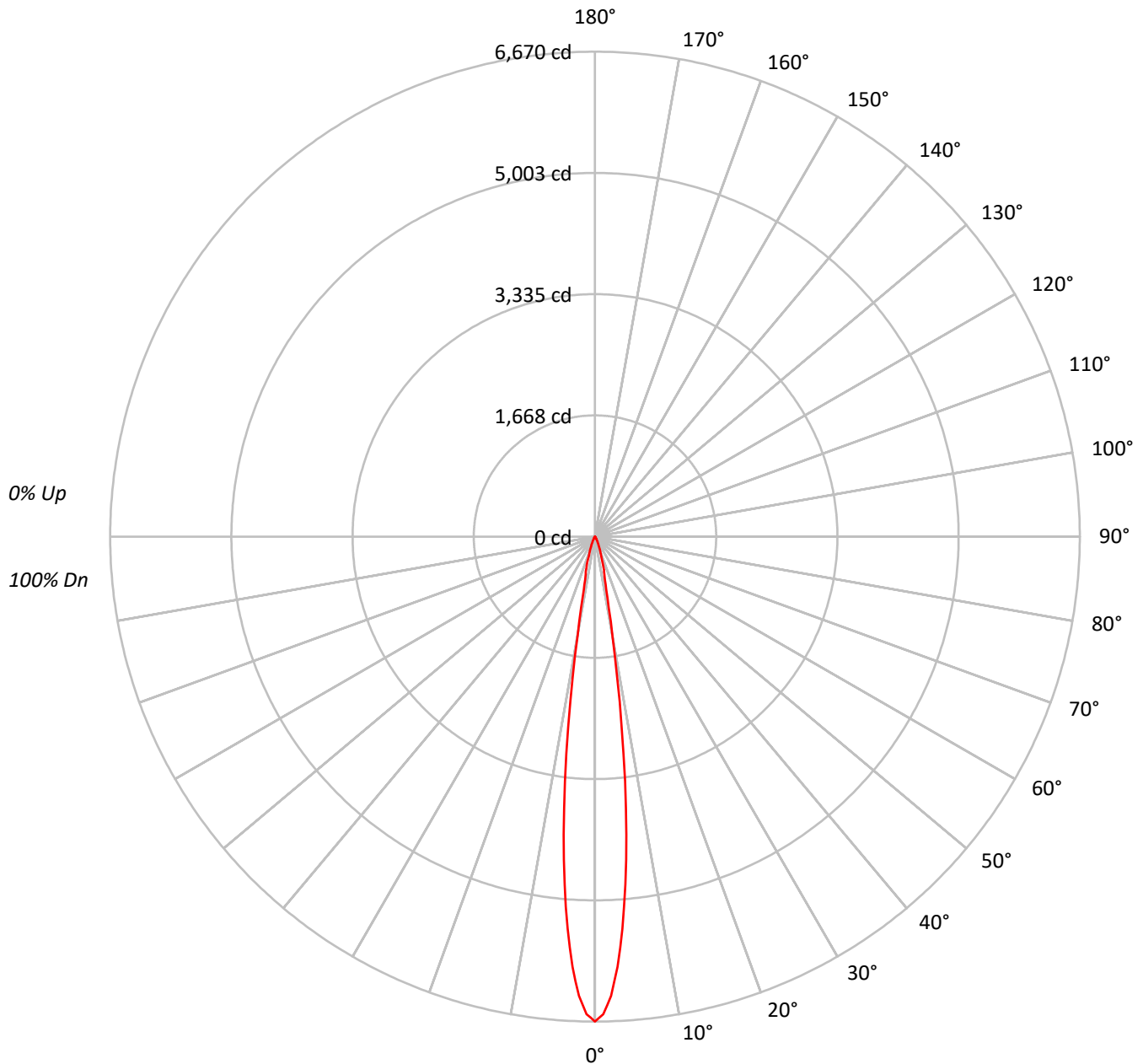
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106		102	102	102	100
	1	116	114	112	111	113	112	110	109	108	107	106	104	103	103		101	100	100	98
	2	113	110	107	105	111	108	106	104	105	103	102	102	101	100		100	99	98	96
	3	110	106	103	101	108	105	102	100	102	100	98	100	99	97		98	97	96	94
	4	108	103	100	97	106	102	99	97	100	98	96	98	96	95		97	95	94	93
	5	105	101	97	95	104	100	97	94	98	96	94	97	95	93		95	94	92	91
	6	103	98	95	93	102	98	95	92	96	94	92	95	93	91		94	92	91	90
	7	101	96	93	91	100	96	93	90	95	92	90	94	91	90		93	91	89	88
	8	100	94	91	89	99	94	91	89	93	90	89	92	90	88		92	90	88	87
	9	98	93	90	88	97	92	89	87	92	89	87	91	89	87		90	88	87	86
	10	96	91	88	86	96	91	88	86	90	88	86	90	87	86		89	87	86	85

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2583753
5°	1867801
10°	543767
15°	190801
20°	81699
25°	36755
30°	14223
35°	7093
40°	4702
45°	3068
50°	1687
55°	1283
60°	697
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	63.2
10°-20°	138.3	25.7
20°-30°	42.4	7.9
30°-40°	10.5	2.0
40°-50°	4.4	0.8
50°-60°	1.9	0.3
60°-70°	0.3	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
<hr/>		
0°-30°	520.7	96.8
0°-40°	531.1	98.8
0°-60°	537.4	99.9
0°-90°	537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	537.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6670	
5°	4804	340
15°	476	138
25°	86	42
35°	15	10
45°	6	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

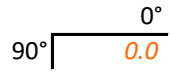
	0°
0°	6670.4
1°	6568.5
2°	6319.9
3°	5923.5
4°	5405.7
5°	4803.7
6°	4125.1
7°	3388.5
8°	2641.6
9°	1943.4
10°	1382.5
11°	990.8
12°	745.0
13°	606.7
14°	530.9
15°	475.8
17.5°	293.5
20°	198.2
22.5°	132.7
25°	86.0
27.5°	52.3
30°	31.8
32.5°	20.6
35°	15.0
37.5°	12.2
40°	9.3
42.5°	7.5
45°	5.6
47.5°	3.7
50°	2.8
52.5°	2.8
55°	1.9
57.5°	1.9
60°	0.9
62.5°	0.9
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):**





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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)