

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: P224159

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224159  
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\*MW  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SQUARE CAST TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

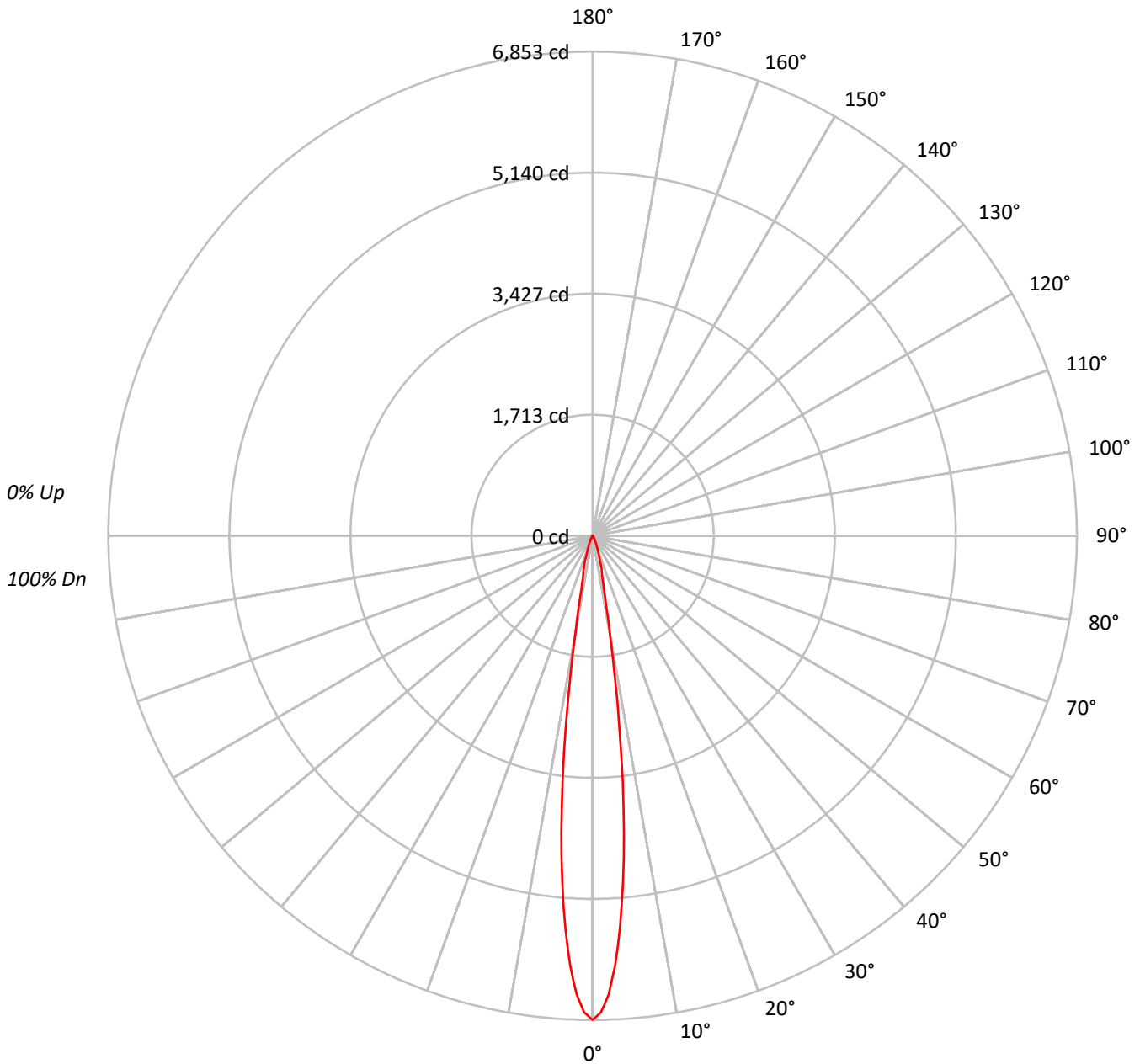
Lumens per Lamp: N/A  
Luminaire Lumens: 552.4 lumens  
Efficiency: N/A  
Efficacy: 53.6 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): 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	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	98	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°	2654405
5°	1918854
10°	558634
15°	196014
20°	83925
25°	37738
30°	14626
35°	7282
40°	4854
45°	3177
50°	1748
55°	1283
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.2	63.2
10°-20°	142.1	25.7
20°-30°	43.6	7.9
30°-40°	10.8	1.9
40°-50°	4.5	0.8
50°-60°	1.9	0.3
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
<hr/>		
0°-30°	534.9	96.8
0°-40°	545.7	98.8
0°-60°	552.1	99.9
0°-90°	<b>552.4</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	<b>0.0</b>	<b>0.0</b>
0°-180°	552.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6853	
5°	4935	349
15°	489	142
25°	88	44
35°	15	11
45°	6	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

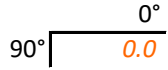
	0°
0°	6852.8
1°	6748.1
2°	6492.7
3°	6085.5
4°	5553.5
5°	4935.0
6°	4237.9
7°	3481.1
8°	2713.8
9°	1996.5
10°	1420.3
11°	1017.9
12°	765.4
13°	623.2
14°	545.5
15°	488.8
17.5°	301.5
20°	203.6
22.5°	136.4
25°	88.3
27.5°	53.8
30°	32.7
32.5°	21.1
35°	15.4
37.5°	12.5
40°	9.6
42.5°	7.7
45°	5.8
47.5°	3.8
50°	2.9
52.5°	2.9
55°	1.9
57.5°	1.9
60°	1.0
62.5°	1.0
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)