

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: P222481

Luminaire Tested: **LSR2B10NFL259050D010 2LBDLC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P222481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B10NFL259050D010 2LBDLC\*MMS  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
NARROW FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.5 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

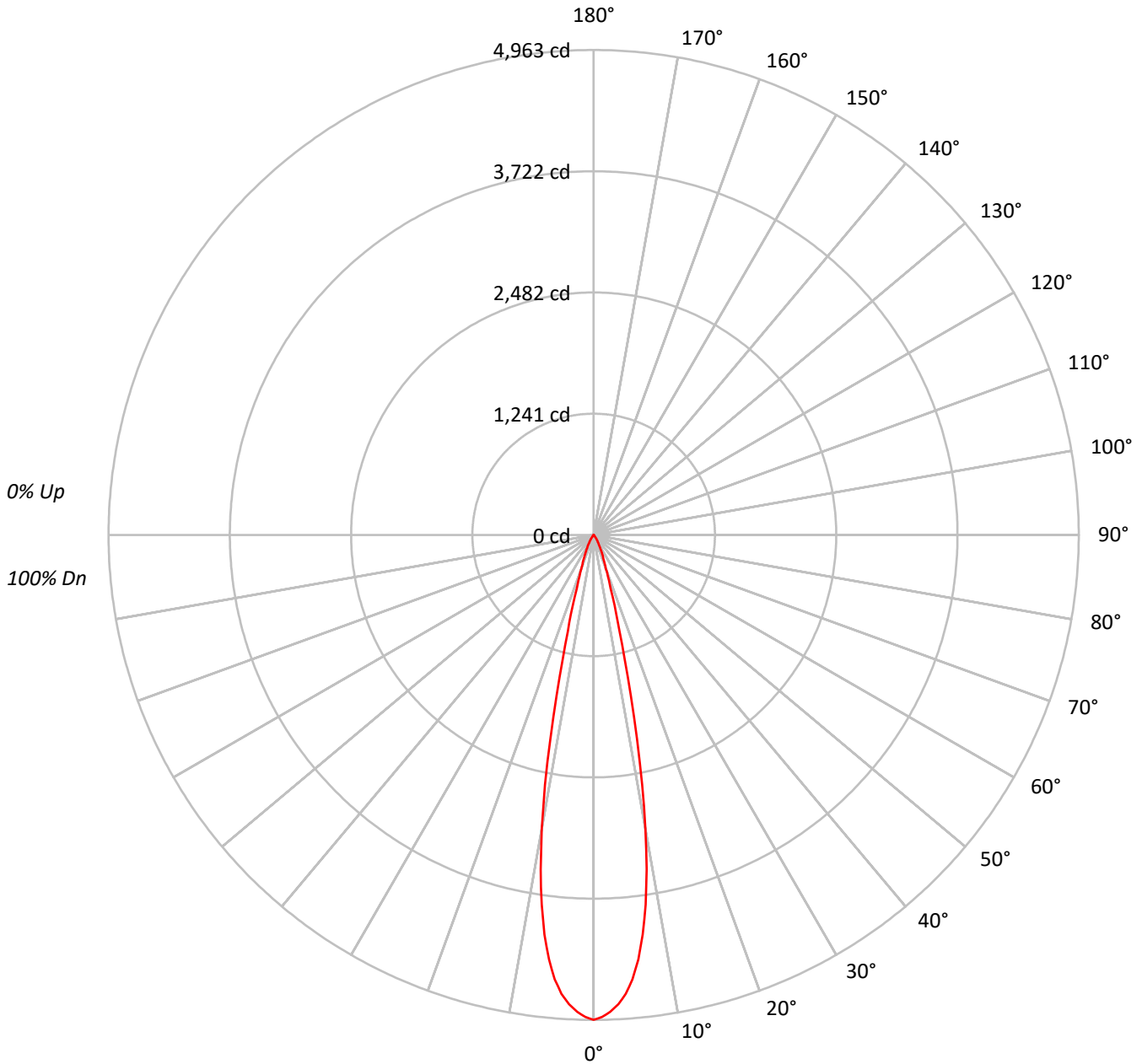
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97			97
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95			95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92			92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90			90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88			88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86			86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84			84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82			82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80			80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79			79

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

	0°
0°	1922243
5°	1774872
10°	1201361
15°	408709
20°	150125
25°	79580
30°	40925
35°	19104
40°	6270
45°	3177
50°	1507
55°	540
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.3	46.4
10°-20°	326.5	39.0
20°-30°	89.6	10.7
30°-40°	26.1	3.1
40°-50°	4.9	0.6
50°-60°	1.1	0.1
60°-70°	0.1	0.0
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°	804.3	96.2
0°-40°	830.5	99.3
0°-60°	836.4	100.0
0°-90°	836.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4963	
5°	4565	388
15°	1019	326
25°	186	90
35°	40	26
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4962.6
1°	4933.8
2°	4882.7
3°	4809.4
4°	4708.9
5°	4564.7
6°	4367.7
7°	4121.4
8°	3820.6
9°	3465.5
10°	3054.4
11°	2603.7
12°	2134.8
13°	1687.4
14°	1306.0
15°	1019.2
17.5°	575.1
20°	364.2
22.5°	259.5
25°	186.2
27.5°	131.8
30°	91.5
32.5°	64.3
35°	40.4
37.5°	16.5
40°	12.4
42.5°	9.1
45°	5.8
47.5°	3.3
50°	2.5
52.5°	1.6
55°	0.8
57.5°	0.8
60°	0.8
62.5°	0.0
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):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)