

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: P225299

Luminaire Tested: **LSR2B10FL409050D010 2LBDC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B10FL409050D010 2LBDC\*MMS  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 903.3 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

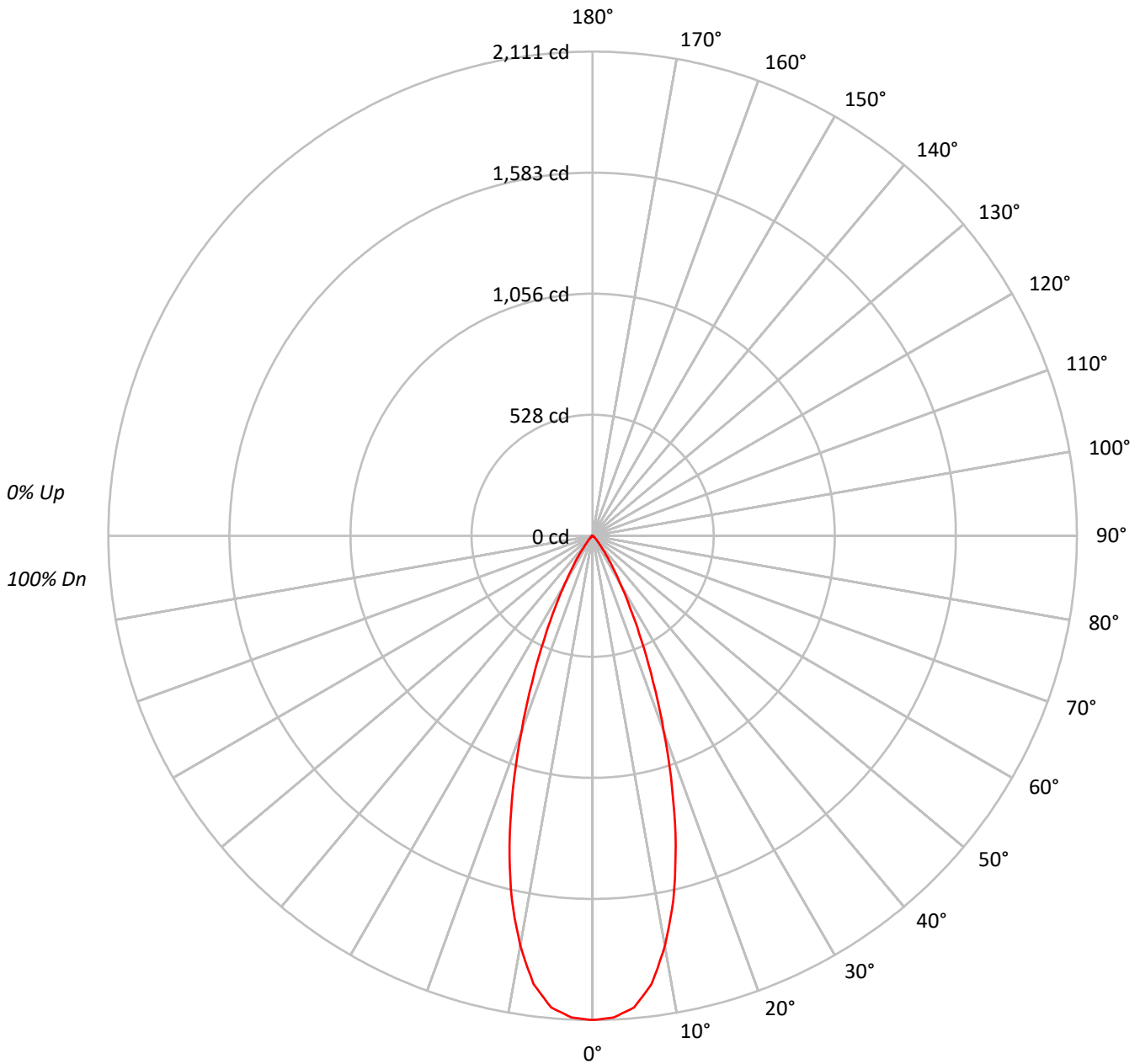
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
RC	80									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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																											
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91																											
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86																											
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82																											
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																											
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75																											
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72																											
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69																											
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66																											
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64																											

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

	0°
0°	817765
5°	802886
10°	713721
15°	561294
20°	373499
25°	214421
30°	108328
35°	50975
40°	20529
45°	10134
50°	5604
55°	3917
60°	3564
65°	2108
70°	2605
75°	1796
80°	2677
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	20.9
10°-20°	379.2	42.0
20°-30°	235.9	26.1
30°-40°	72.5	8.0
40°-50°	15.9	1.8
50°-60°	5.7	0.6
60°-70°	2.9	0.3
70°-80°	1.7	0.2
80°-90°	0.5	0.1
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°	804.2	89.0
0°-40°	876.7	97.1
0°-60°	898.3	99.4
0°-90°	903.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2111	
5°	2065	189
15°	1400	379
25°	502	236
35°	108	73
45°	18	16
55°	6	6
65°	2	3
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2111.2
2.5°	2101.9
5°	2064.9
7.5°	1971.0
10°	1814.6
12.5°	1626.9
15°	1399.7
17.5°	1151.8
20°	906.1
22.5°	687.1
25°	501.7
27.5°	353.4
30°	242.2
32.5°	163.4
35°	107.8
37.5°	64.9
40°	40.6
42.5°	27.8
45°	18.5
47.5°	12.7
50°	9.3
52.5°	8.1
55°	5.8
57.5°	4.6
60°	4.6
62.5°	3.5
65°	2.3
67.5°	2.3
70°	2.3
72.5°	2.3
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)