

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: P224600

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B10FL409050D010 2LBDLC\*MMS  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

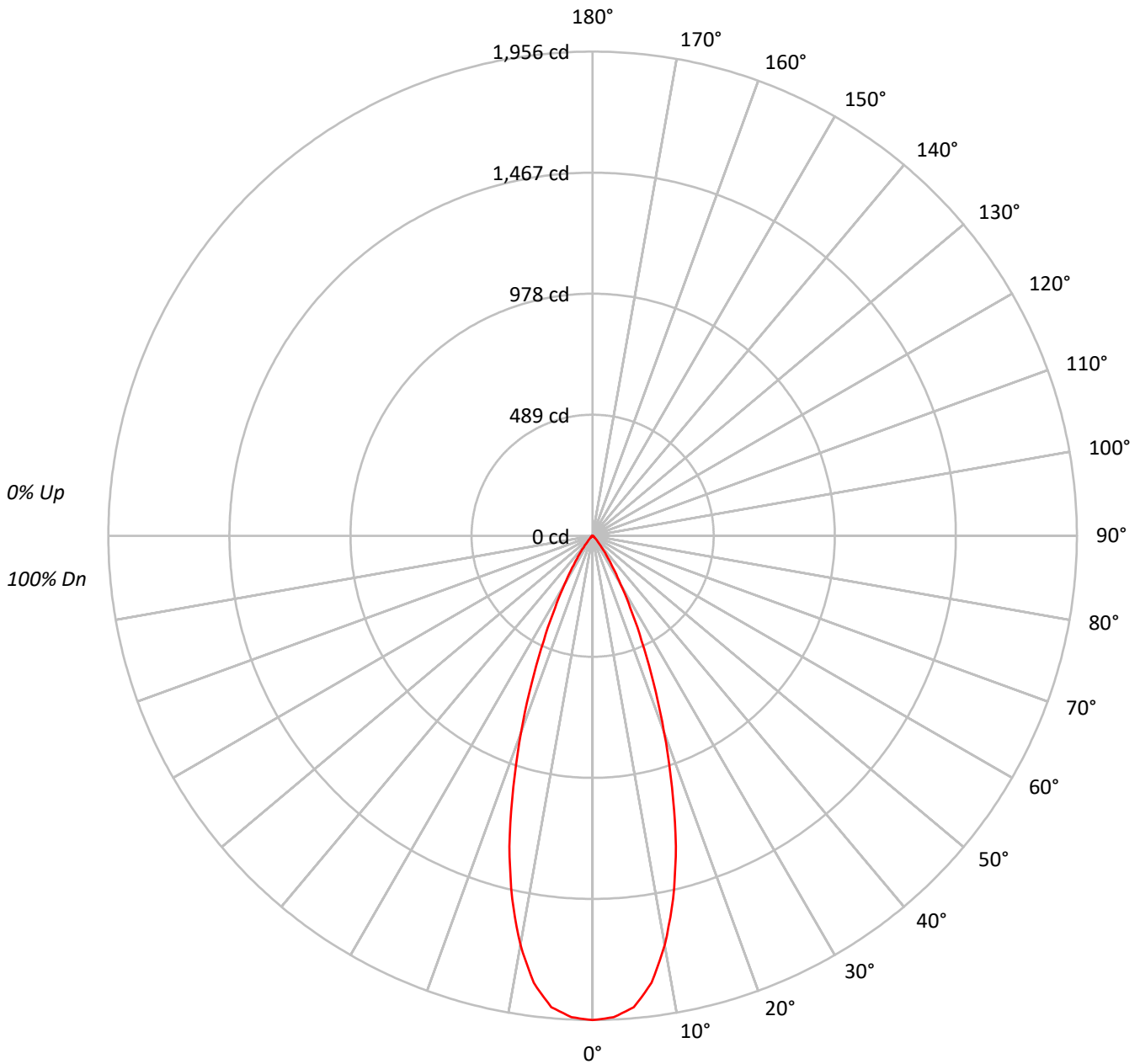
Lumens per Lamp: N/A  
Luminaire Lumens: 832.5 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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				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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	86	82	88	85	82	87	83	81	85	83	80	79	79	79	79
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76	76	76	76
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72	72	72	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69	69	69	69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64	64	64	64

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

	0°
0°	757804
5°	743240
10°	660229
15°	521032
20°	347489
25°	200018
30°	101306
35°	47475
40°	19467
45°	8765
50°	4520
55°	2904
60°	1627
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	21.0
10°-20°	351.1	42.2
20°-30°	219.9	26.4
30°-40°	68.0	8.2
40°-50°	14.1	1.7
50°-60°	3.9	0.5
60°-70°	0.5	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°	746.0	89.6
0°-40°	814.0	97.8
0°-60°	832.0	99.9
0°-90°	832.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1956	
5°	1912	175
15°	1299	351
25°	468	220
35°	100	68
45°	16	14
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1956.4
2.5°	1946.8
5°	1911.5
7.5°	1821.7
10°	1678.6
12.5°	1502.3
15°	1299.3
17.5°	1065.3
20°	843.0
22.5°	641.1
25°	468.0
27.5°	329.1
30°	226.5
32.5°	151.7
35°	100.4
37.5°	63.0
40°	38.5
42.5°	24.6
45°	16.0
47.5°	10.7
50°	7.5
52.5°	5.3
55°	4.3
57.5°	3.2
60°	2.1
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)