

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: P224113

Luminaire Tested: **LSR2B10SP158035D010 2LBDC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224113  
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: LSR2B10SP158035D010 2LBDC\*MMS  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 600.4 lumens  
Efficiency: N/A  
Efficacy: 58.3 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

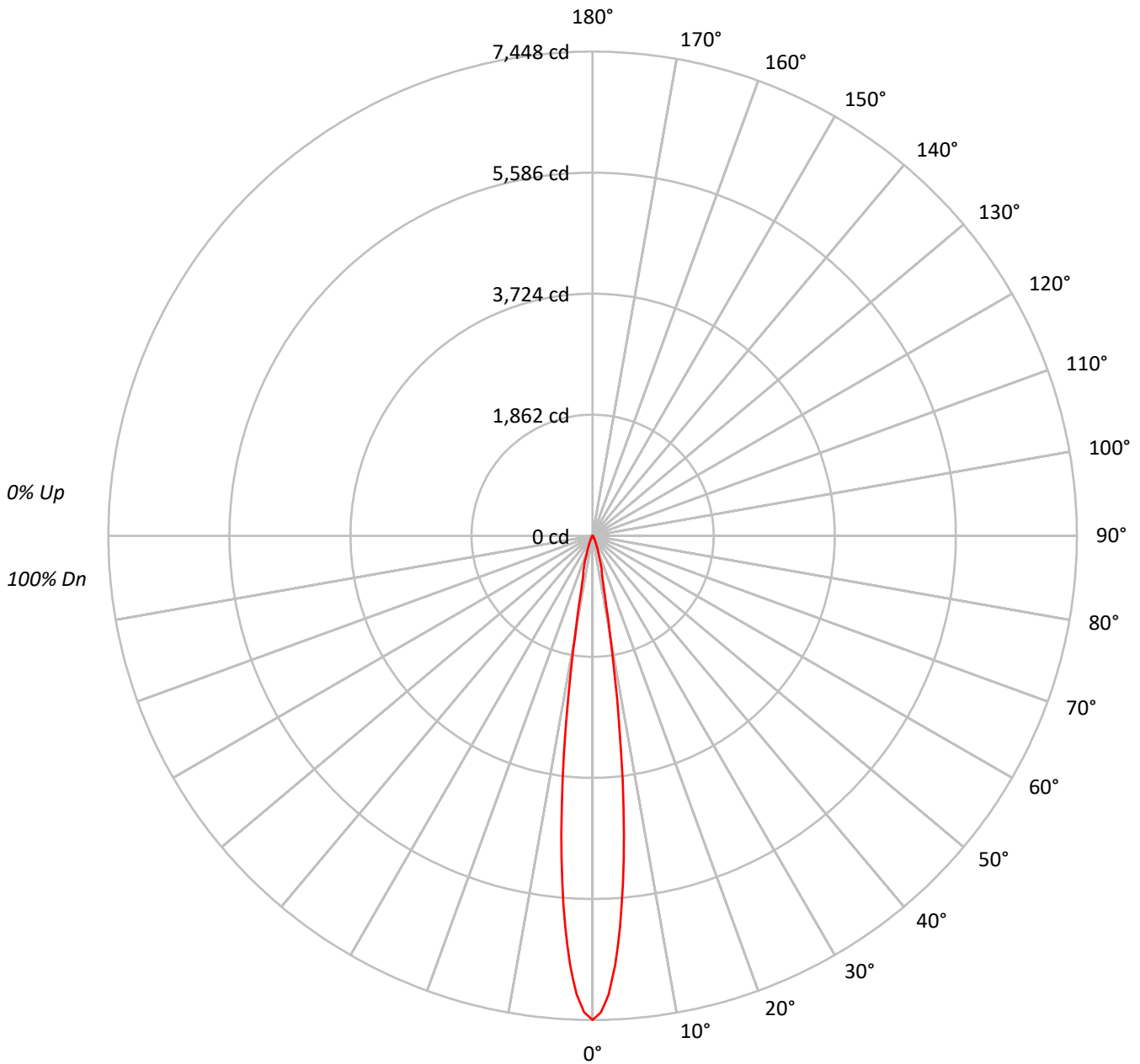
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
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									100																		
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98									98																		
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96									96																		
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94									94																		
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	91									91																		
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	89									89																		
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	88									88																		
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	86									86																		
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	85									85																		
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	84									84																		
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	83									83																		

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

	0°
0°	2885030
5°	2085622
10°	607170
15°	213057
20°	91221
25°	41029
30°	15878
35°	7897
40°	5259
45°	3451
50°	1868
55°	1418
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.6	63.2
10°-20°	154.4	25.7
20°-30°	47.4	7.9
30°-40°	11.7	1.9
40°-50°	4.9	0.8
50°-60°	2.1	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
0°-30°	581.4	96.8
0°-40°	593.1	98.8
0°-60°	600.0	99.9
0°-90°	600.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7448	
5°	5364	380
15°	531	154
25°	96	47
35°	17	12
45°	6	5
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7448.2
1°	7334.5
2°	7056.8
3°	6614.3
4°	6036.0
5°	5363.9
6°	4606.1
7°	3783.6
8°	2949.7
9°	2170.0
10°	1543.7
11°	1106.4
12°	831.9
13°	677.4
14°	592.9
15°	531.3
17.5°	327.7
20°	221.3
22.5°	148.2
25°	96.0
27.5°	58.5
30°	35.5
32.5°	23.0
35°	16.7
37.5°	13.6
40°	10.4
42.5°	8.4
45°	6.3
47.5°	4.2
50°	3.1
52.5°	3.1
55°	2.1
57.5°	2.1
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):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)