

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: P223959

Luminaire Tested: **LSR2B05SP159024D010 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223959  
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: LSR2B05SP159024D010 2LBDL\*B  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 292.0 lumens  
Efficiency: N/A  
Efficacy: 40.0 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

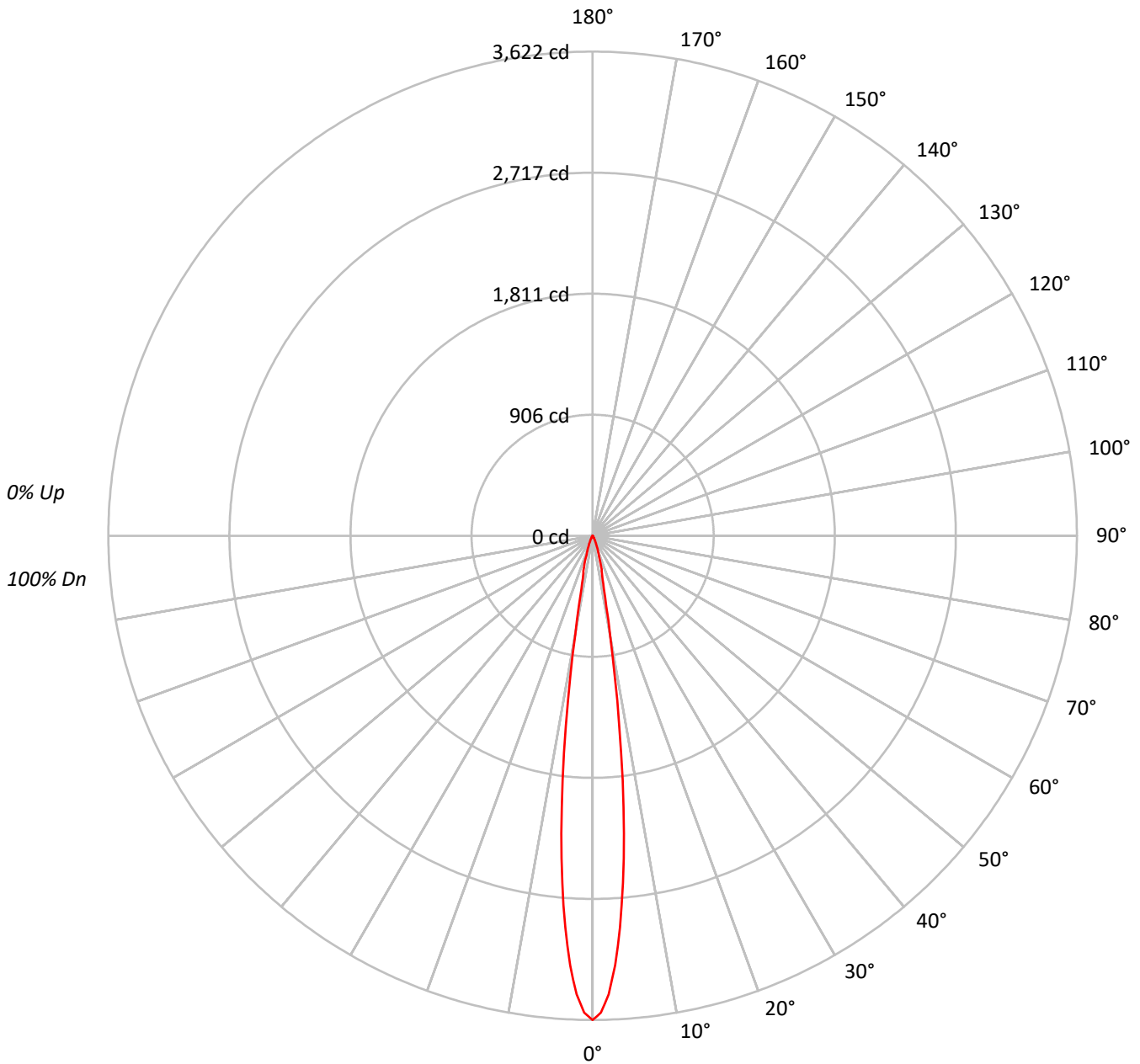
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	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°	1403122
5°	1014329
10°	295306
15°	103621
20°	44353
25°	19959
30°	7738
35°	3830
40°	2579
45°	1643
50°	904
55°	675
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.6	63.2
10°-20°	75.1	25.7
20°-30°	23.1	7.9
30°-40°	5.7	1.9
40°-50°	2.4	0.8
50°-60°	1.0	0.3
60°-70°	0.2	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°	282.7	96.8
0°-40°	288.4	98.8
0°-60°	291.8	99.9
0°-90°	292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	292.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3622	
5°	2609	185
15°	258	75
25°	47	23
35°	8	6
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3622.4
1°	3567.1
2°	3432.0
3°	3216.8
4°	2935.6
5°	2608.7
6°	2240.1
7°	1840.1
8°	1434.5
9°	1055.3
10°	750.8
11°	538.1
12°	404.6
13°	329.4
14°	288.3
15°	258.4
17.5°	159.4
20°	107.6
22.5°	72.1
25°	46.7
27.5°	28.4
30°	17.3
32.5°	11.2
35°	8.1
37.5°	6.6
40°	5.1
42.5°	4.1
45°	3.0
47.5°	2.0
50°	1.5
52.5°	1.5
55°	1.0
57.5°	1.0
60°	0.5
62.5°	0.5
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)