

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: P223681

Luminaire Tested: **LSR2B05SP159727D010 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223681  
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: LSR2B05SP159727D010 2LBDL\*LI  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 283.0 lumens  
Efficiency: N/A  
Efficacy: 38.8 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

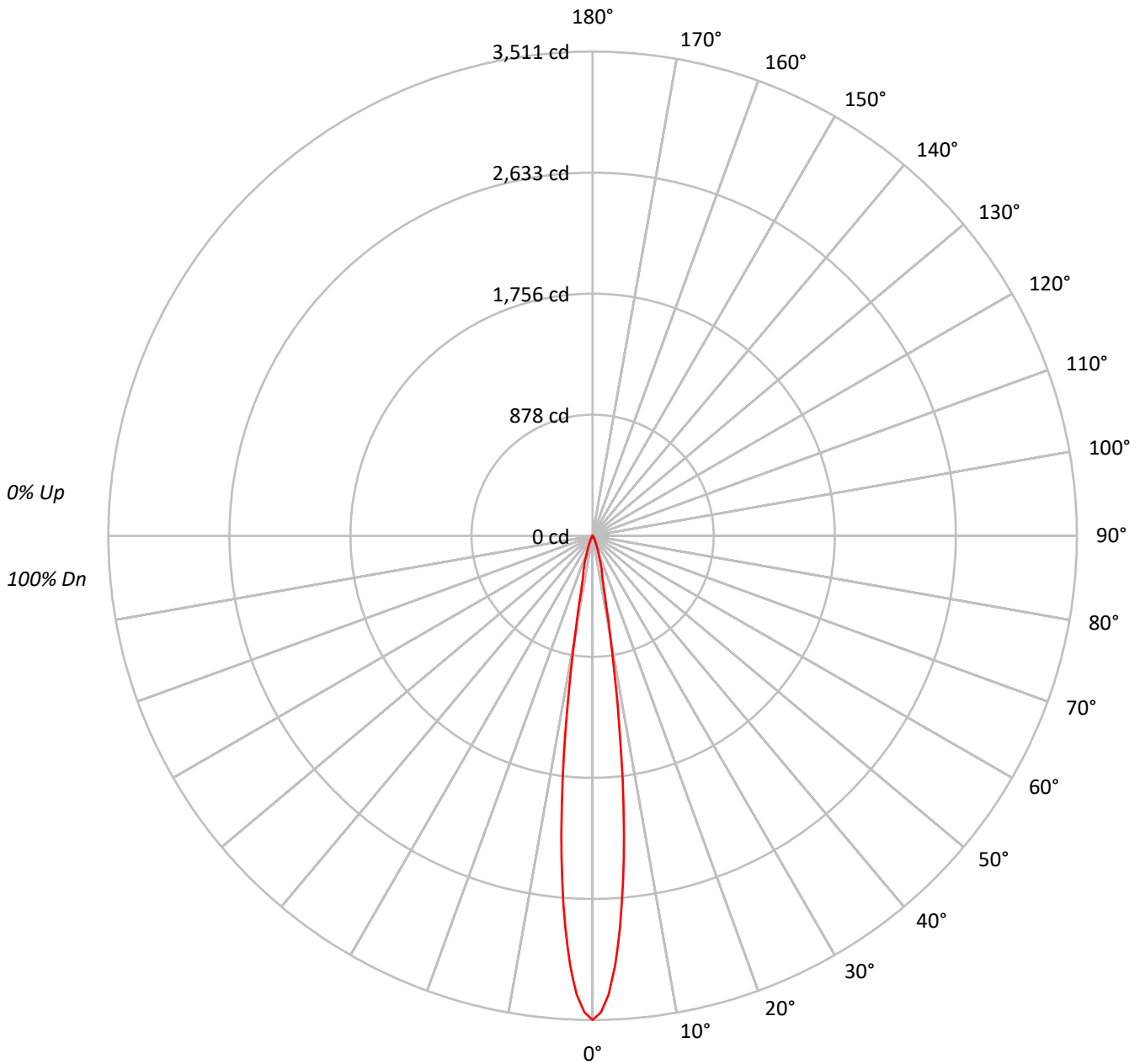
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223681

CATALOG NUMBER: LSR2B05SP159727D010 2LBDL\*LI

### Luminous Intensity Polar Plot





TEST NUMBER: P223681

CATALOG NUMBER: LSR2B05SP159727D010 2LBDL\*LI

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

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

	0°
0°	1359856
5°	983068
10°	286181
15°	100413
20°	42993
25°	19361
30°	7469
35°	3736
40°	2478
45°	1643
50°	904
55°	675
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223681

CATALOG NUMBER: LSR2B05SP159727D010 2LBDL\*LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.9	63.2
10°-20°	72.8	25.7
20°-30°	22.4	7.9
30°-40°	5.5	1.9
40°-50°	2.3	0.8
50°-60°	1.0	0.4
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°	274.0	96.8
0°-40°	279.6	98.8
0°-60°	282.9	99.9
0°-90°	283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	283.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3511	
5°	2528	179
15°	250	73
25°	45	22
35°	8	6
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223681

CATALOG NUMBER: LSR2B05SP159727D010 2LBDL\*LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3510.7
1°	3457.1
2°	3326.3
3°	3117.7
4°	2845.1
5°	2528.3
6°	2171.1
7°	1783.4
8°	1390.3
9°	1022.8
10°	727.6
11°	521.5
12°	392.1
13°	319.3
14°	279.4
15°	250.4
17.5°	154.5
20°	104.3
22.5°	69.9
25°	45.3
27.5°	27.6
30°	16.7
32.5°	10.8
35°	7.9
37.5°	6.4
40°	4.9
42.5°	3.9
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



TEST NUMBER: P223681

CATALOG NUMBER: LSR2B05SP159727D010 2LBDL\*LI

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)