

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: P223925

Luminaire Tested: **LSR2B10SP159024D010 2LBDL\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223925  
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: LSR2B10SP159024D010 2LBDL\*WMH  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 390.9 lumens  
Efficiency: N/A  
Efficacy: 38.0 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

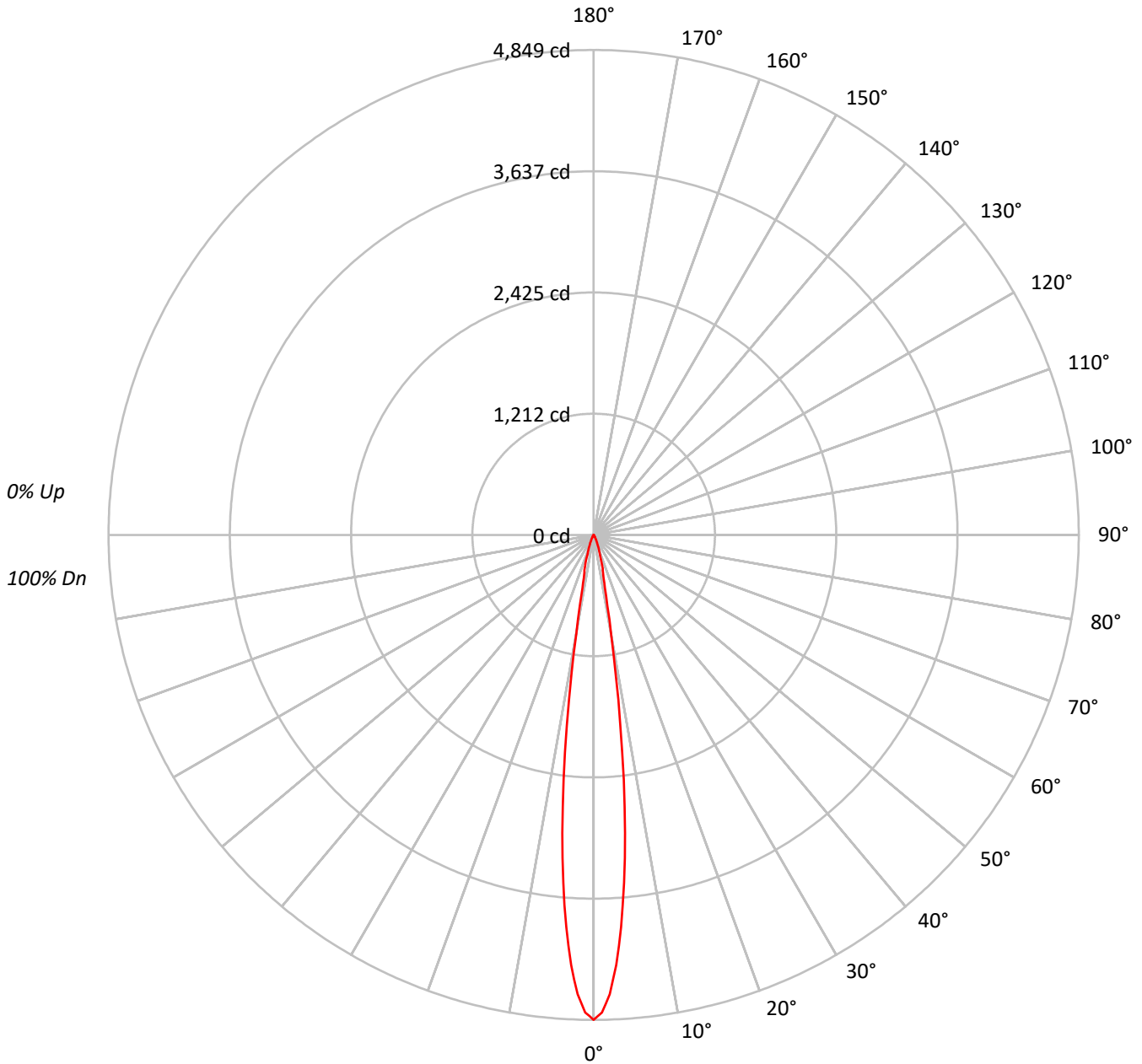
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223925

CATALOG NUMBER: LSR2B10SP159024D010 2LBDL\*WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P223925

CATALOG NUMBER: LSR2B10SP159024D010 2LBDL\*WMH

**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	90	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°	1878357
5°	1357857
10°	395327
15°	138709
20°	59399
25°	26712
30°	10332
35°	5154
40°	3438
45°	2246
50°	1205
55°	945
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223925

CATALOG NUMBER: LSR2B10SP159024D010 2LBDL\*WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.1	63.2
10°-20°	100.5	25.7
20°-30°	30.9	7.9
30°-40°	7.6	1.9
40°-50°	3.2	0.8
50°-60°	1.4	0.4
60°-70°	0.3	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°	378.5	96.8
0°-40°	386.1	98.8
0°-60°	390.7	99.9
0°-90°	390.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	390.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4849	
5°	3492	247
15°	346	101
25°	62	31
35°	11	8
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223925

CATALOG NUMBER: LSR2B10SP159024D010 2LBDL\*WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4849.3
1°	4775.2
2°	4594.5
3°	4306.3
4°	3929.9
5°	3492.2
6°	2998.9
7°	2463.4
8°	1920.4
9°	1412.8
10°	1005.1
11°	720.3
12°	541.6
13°	441.0
14°	386.0
15°	345.9
17.5°	213.4
20°	144.1
22.5°	96.5
25°	62.5
27.5°	38.1
30°	23.1
32.5°	15.0
35°	10.9
37.5°	8.8
40°	6.8
42.5°	5.4
45°	4.1
47.5°	2.7
50°	2.0
52.5°	2.0
55°	1.4
57.5°	1.4
60°	0.7
62.5°	0.7
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: P223925

CATALOG NUMBER: LSR2B10SP159024D010 2LBDL\*WMH

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)