

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: P223027

Luminaire Tested: **LSRWM2B05NFL259024D010 2LBDL\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSRWM2B05NFL259024D010 2LBDL\*GPH  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
NARROW FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 515.0 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

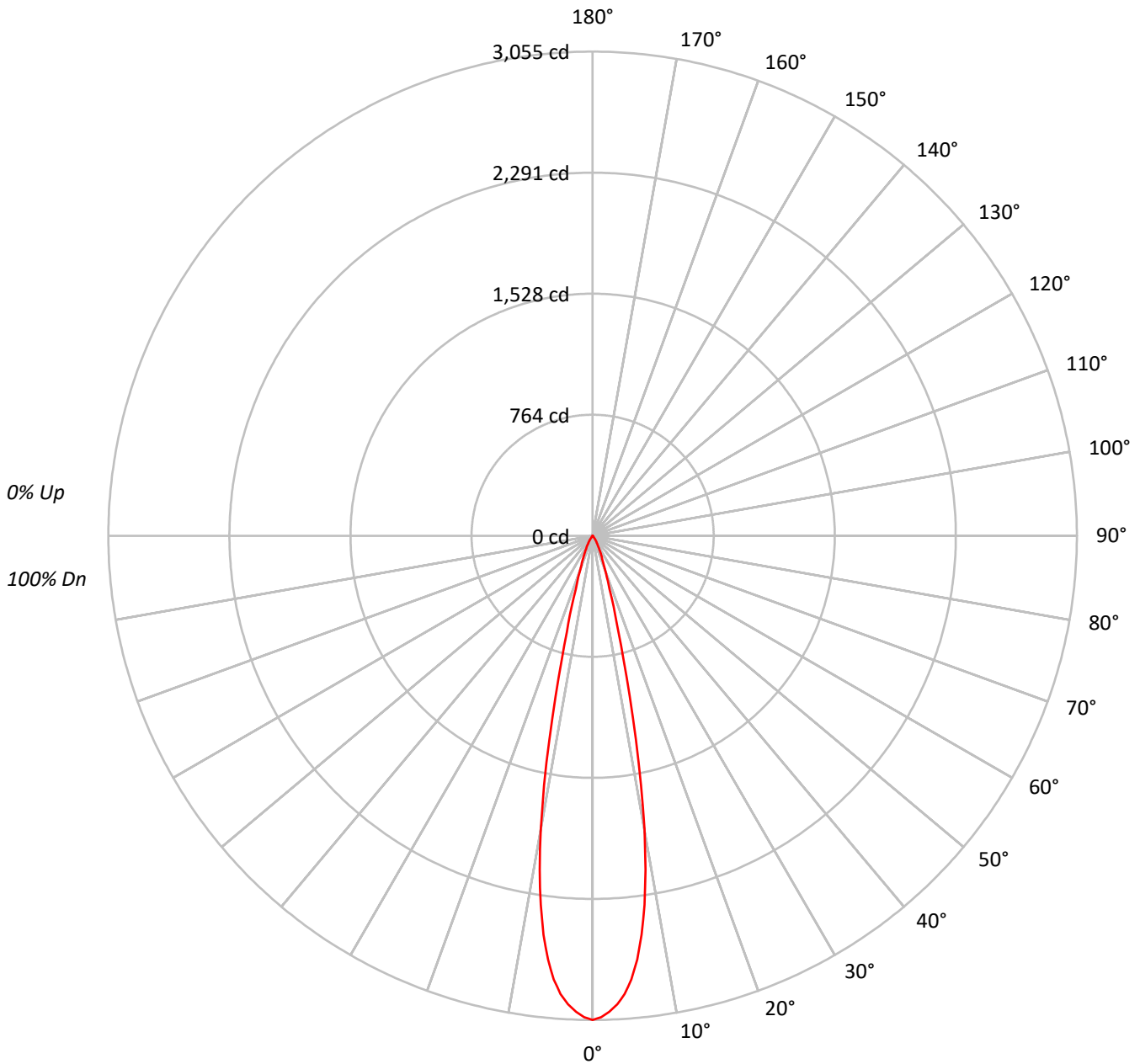
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223027

CATALOG NUMBER: LSRWM2B05NFL259024D010 2LBDL\*GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P223027

CATALOG NUMBER: LSRWM2B05NFL259024D010 2LBDL\*GPH

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

RF	20				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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97	97
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	95	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	92	92
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	90	90	90
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	88	88	88
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	86	86	86
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84	84	84	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	82	82	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	80	80	80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

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

	0°
0°	1183458
5°	1092717
10°	739641
15°	251634
20°	92416
25°	48979
30°	25181
35°	11774
40°	3843
45°	1972
50°	904
55°	338
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223027

CATALOG NUMBER: LSRWM2B05NFL259024D010 2LBDL\*GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	46.4
10°-20°	201.0	39.0
20°-30°	55.2	10.7
30°-40°	16.1	3.1
40°-50°	3.0	0.6
50°-60°	0.7	0.1
60°-70°	0.1	0.0
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°	495.2	96.2
0°-40°	511.3	99.3
0°-60°	514.9	100.0
0°-90°	515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3055	
5°	2810	239
15°	628	201
25°	115	55
35°	25	16
45°	4	3
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223027

CATALOG NUMBER: LSRWM2B05NFL259024D010 2LBDL\*GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3055.3
1°	3037.5
2°	3006.1
3°	2960.9
4°	2899.1
5°	2810.3
6°	2689.1
7°	2537.4
8°	2352.2
9°	2133.6
10°	1880.5
11°	1603.0
12°	1314.3
13°	1038.9
14°	804.0
15°	627.5
17.5°	354.1
20°	224.2
22.5°	159.8
25°	114.6
27.5°	81.2
30°	56.3
32.5°	39.6
35°	24.9
37.5°	10.1
40°	7.6
42.5°	5.6
45°	3.6
47.5°	2.0
50°	1.5
52.5°	1.0
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.0
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



TEST NUMBER: P223027

CATALOG NUMBER: LSRWM2B05NFL259024D010 2LBDL\*GPH

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)