

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: P224977

Luminaire Tested: **LSR2B15FL409024D010 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B15FL409024D010 2LBDL\*LI  
Description: 1500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 933.8 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

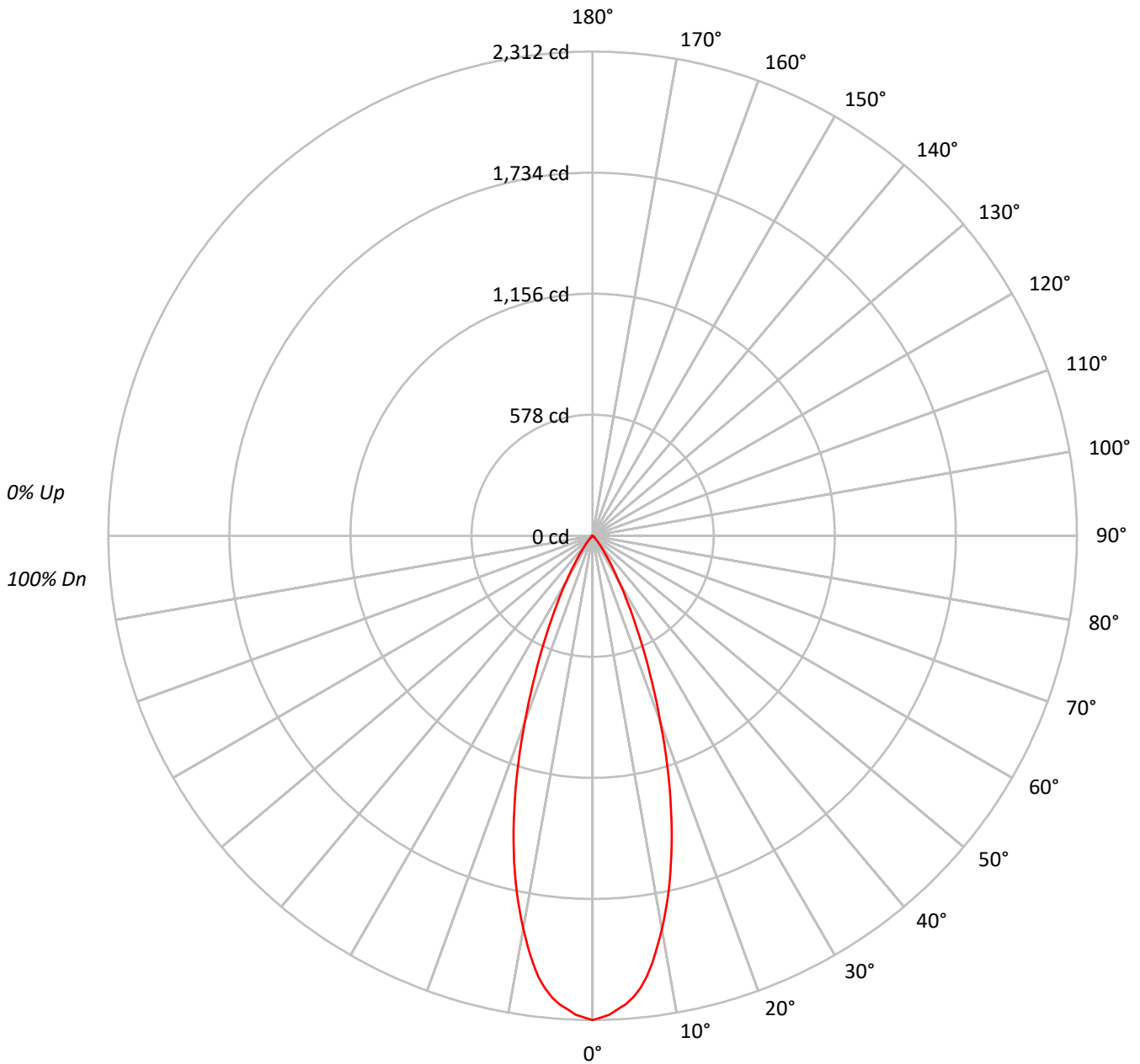
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87	87	87	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83	83	83	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	79	79	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76	76	76	76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73	73	73	73
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70	70	70	70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67	67	67	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65	65	65	65

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

	0°
0°	895738
5°	860782
10°	749317
15°	585114
20°	389122
25°	222841
30°	110788
35°	50927
40°	20428
45°	9367
50°	4339
55°	2431
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	21.6
10°-20°	395.7	42.4
20°-30°	244.9	26.2
30°-40°	73.3	7.8
40°-50°	14.7	1.6
50°-60°	3.6	0.4
60°-70°	0.2	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°	842.0	90.2
0°-40°	915.3	98.0
0°-60°	933.6	100.0
0°-90°	933.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2312	
5°	2214	201
15°	1459	396
25°	521	245
35°	108	73
45°	17	15
55°	4	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2312.5
1°	2300.0
2°	2288.3
3°	2265.0
4°	2243.4
5°	2213.8
6°	2173.5
7°	2122.3
8°	2056.8
9°	1982.3
10°	1905.1
11°	1825.3
12°	1740.0
13°	1651.2
14°	1556.1
15°	1459.1
17.5°	1203.4
20°	944.0
22.5°	714.3
25°	521.4
27.5°	366.1
30°	247.7
32.5°	163.3
35°	107.7
37.5°	67.3
40°	40.4
42.5°	26.0
45°	17.1
47.5°	10.8
50°	7.2
52.5°	5.4
55°	3.6
57.5°	2.7
60°	1.8
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



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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)