

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: P224778

Luminaire Tested: **LSR2B15FL409040D010 2LBDL\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B15FL409040D010 2LBDL\*MW  
Description: 1500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1102.5 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

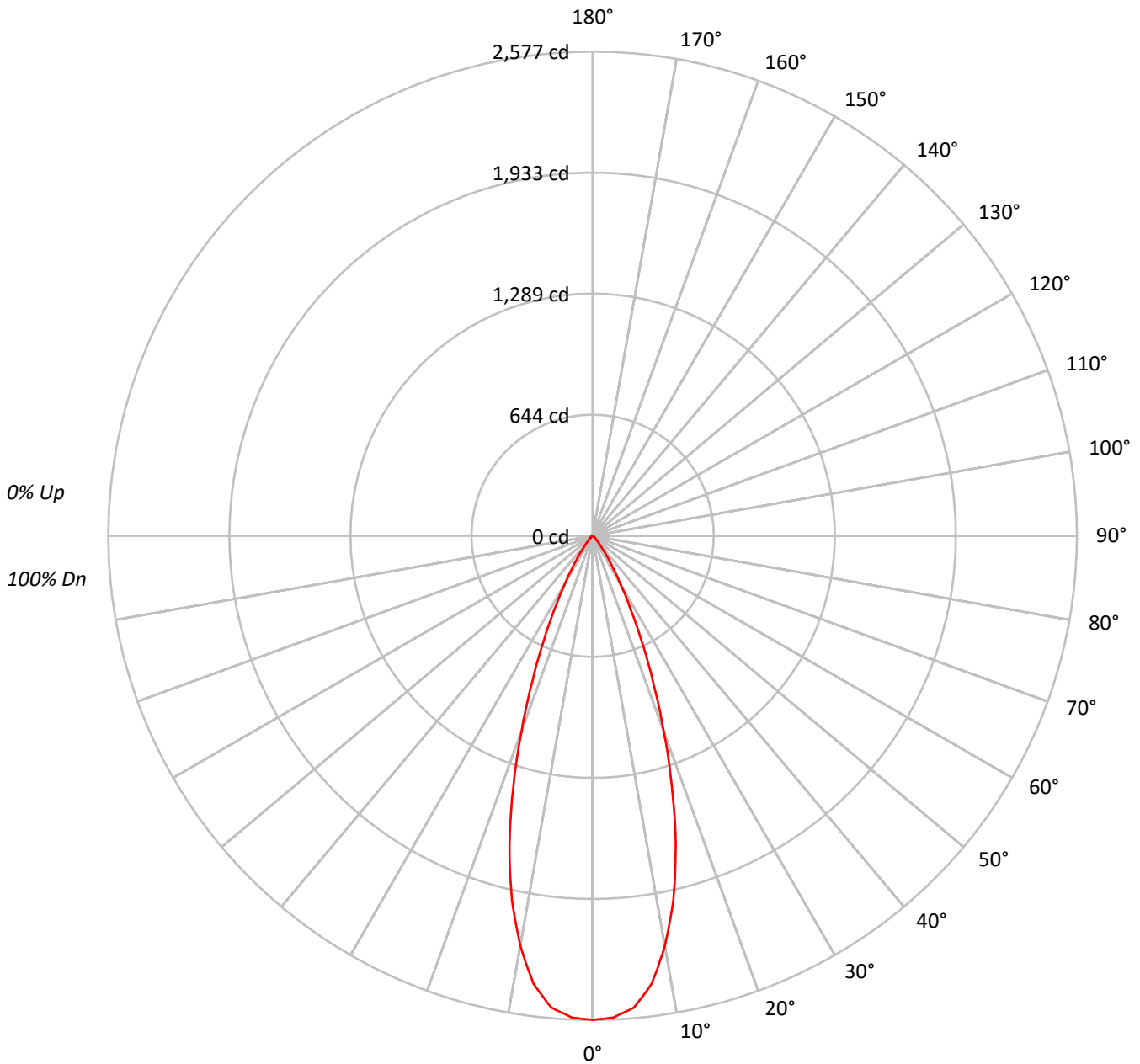
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224778

CATALOG NUMBER: LSR2B15FL409040D010 2LBDL\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P224778

CATALOG NUMBER: LSR2B15FL409040D010 2LBDL\*MW

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91		
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86		
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82		
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79		
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75		
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72		
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69		
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66		
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64		

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

	0°
0°	998191
5°	979996
10°	871168
15°	685166
20°	455940
25°	261733
30°	132213
35°	62181
40°	25029
45°	12380
50°	6809
55°	4795
60°	4416
65°	2566
70°	3171
75°	2095
80°	3123
85°	0



TEST NUMBER: P224778

CATALOG NUMBER: LSR2B15FL409040D010 2LBDL\*MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.8	20.9
10°-20°	462.8	42.0
20°-30°	287.9	26.1
30°-40°	88.5	8.0
40°-50°	19.4	1.8
50°-60°	6.9	0.6
60°-70°	3.5	0.3
70°-80°	2.0	0.2
80°-90°	0.6	0.1
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°	981.6	89.0
0°-40°	1070.1	97.1
0°-60°	1096.5	99.4
0°-90°	1102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2577	
5°	2520	231
15°	1709	463
25°	612	288
35°	132	89
45°	23	19
55°	7	7
65°	3	3
75°	1	2
85°	0	1
90°	0	



TEST NUMBER: P224778

CATALOG NUMBER: LSR2B15FL409040D010 2LBDL\*MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2577.0
2.5°	2565.7
5°	2520.4
7.5°	2405.9
10°	2214.9
12.5°	1985.8
15°	1708.6
17.5°	1405.9
20°	1106.1
22.5°	838.7
25°	612.4
27.5°	431.4
30°	295.6
32.5°	199.4
35°	131.5
37.5°	79.2
40°	49.5
42.5°	33.9
45°	22.6
47.5°	15.6
50°	11.3
52.5°	9.9
55°	7.1
57.5°	5.7
60°	5.7
62.5°	4.2
65°	2.8
67.5°	2.8
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)