

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: P224544

Luminaire Tested: **LSSQ2B10FL409050D010 2LBDL\*GPH**

Issue Date: 3/3/2020

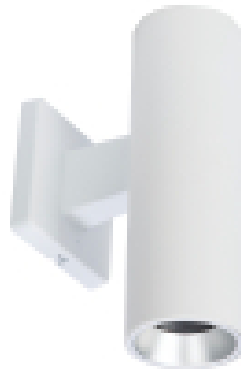
**Test Information**

Test Method: LM-41-14  
Report Number: P224544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQ2B10FL409050D010 2LBDL\*GPH  
Description: 1000 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 853.9 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

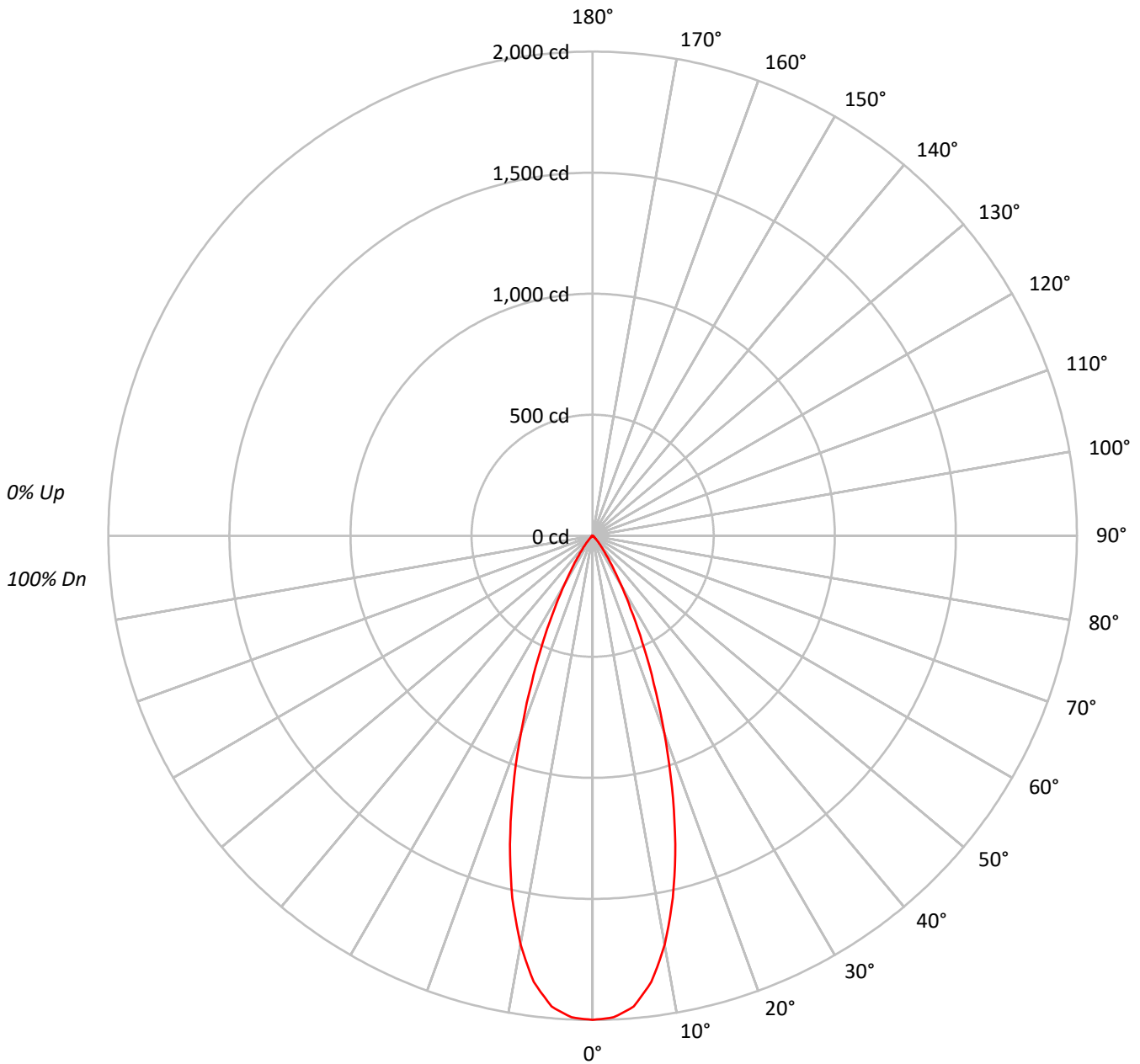
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224544

CATALOG NUMBER: LSSQ2B10FL409050D010 2LBDL\*GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P224544

CATALOG NUMBER: LSSQ2B10FL409050D010 2LBDL\*GPH

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

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

	0°
0°	774615
5°	758949
10°	674389
15°	529093
20°	355857
25°	207027
30°	103722
35°	48374
40°	22552
45°	9532
50°	4580
55°	2971
60°	1704
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224544

CATALOG NUMBER: LSSQ2B10FL409050D010 2LBDL\*GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.7	20.9
10°-20°	358.1	41.9
20°-30°	226.5	26.5
30°-40°	70.4	8.3
40°-50°	15.6	1.8
50°-60°	4.0	0.5
60°-70°	0.5	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°	763.3	89.4
0°-40°	833.7	97.6
0°-60°	853.4	99.9
0°-90°	853.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	853.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2000	
5°	1952	179
15°	1319	358
25°	484	226
35°	102	70
45°	17	16
55°	4	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224544

CATALOG NUMBER: LSSQ2B10FL409050D010 2LBDL\*GPH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1999.8
2.5°	1991.1
5°	1951.9
7.5°	1859.4
10°	1714.6
12.5°	1531.7
15°	1319.4
17.5°	1089.7
20°	863.3
22.5°	659.7
25°	484.4
27.5°	339.7
30°	231.9
32.5°	153.5
35°	102.3
37.5°	68.6
40°	44.6
42.5°	27.2
45°	17.4
47.5°	12.0
50°	7.6
52.5°	5.4
55°	4.4
57.5°	3.3
60°	2.2
62.5°	1.1
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)