

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: P224059

Luminaire Tested: **LD2B10D010 EU2B10SP158040 2LBDLC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224059  
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: LD2B10D010 EU2B10SP158040 2LBDLC\*MMS  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 535.0 lumens  
Efficiency: N/A  
Efficacy: 51.9 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

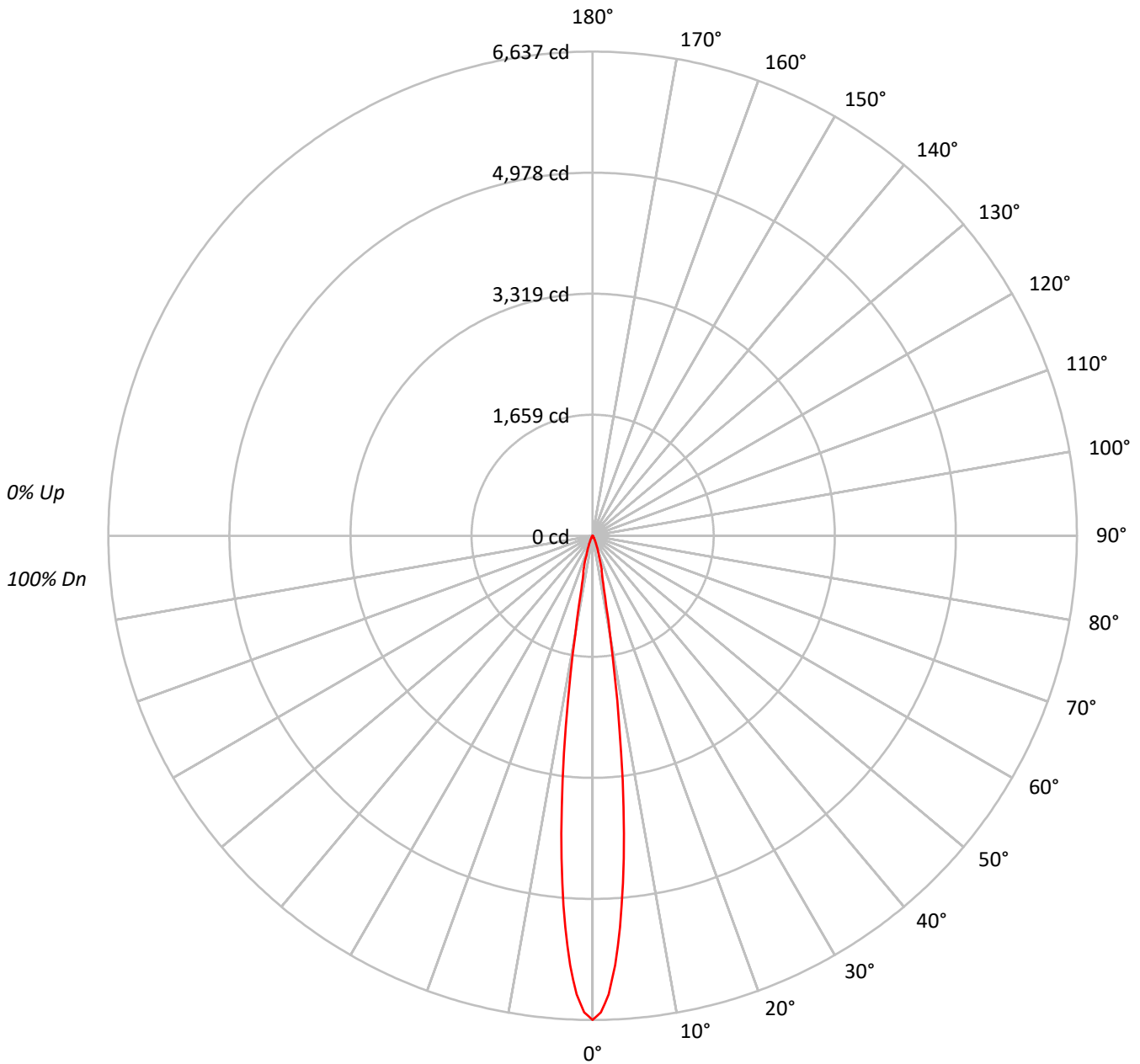
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224059

CATALOG NUMBER: LD2B10D010 EU2B10SP158040 2LBDLC\*MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P224059

CATALOG NUMBER: LD2B10D010 EU2B10SP158040 2LBDLC\*MMS

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85

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

	0°
0°	2570777
5°	1858431
10°	541053
15°	189838
20°	81287
25°	36584
30°	14134
35°	7046
40°	4702
45°	3068
50°	1687
55°	1283
60°	697
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224059

CATALOG NUMBER: LD2B10D010 EU2B10SP158040 2LBDLC\*MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.2	63.2
10°-20°	137.6	25.7
20°-30°	42.2	7.9
30°-40°	10.4	1.9
40°-50°	4.3	0.8
50°-60°	1.9	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°	518.1	96.8
0°-40°	528.5	98.8
0°-60°	534.7	99.9
0°-90°	535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6637	
5°	4780	338
15°	473	138
25°	86	42
35°	15	10
45°	6	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224059

CATALOG NUMBER: LD2B10D010 EU2B10SP158040 2LBDLC\*MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6636.9
1°	6535.5
2°	6288.1
3°	5893.8
4°	5378.5
5°	4779.6
6°	4104.4
7°	3371.5
8°	2628.4
9°	1933.6
10°	1375.6
11°	985.9
12°	741.3
13°	603.6
14°	528.3
15°	473.4
17.5°	292.0
20°	197.2
22.5°	132.1
25°	85.6
27.5°	52.1
30°	31.6
32.5°	20.5
35°	14.9
37.5°	12.1
40°	9.3
42.5°	7.4
45°	5.6
47.5°	3.7
50°	2.8
52.5°	2.8
55°	1.9
57.5°	1.9
60°	0.9
62.5°	0.9
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: P224059

CATALOG NUMBER: LD2B10D010 EU2B10SP158040 2LBDLC\*MMS

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)