

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: P223629

Luminaire Tested: **LD2B10D010 EU2B10SP159727 2LBDL\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223629  
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 EU2B10SP159727 2LBDL\*GPH  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 378.9 lumens  
Efficiency: N/A  
Efficacy: 36.8 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

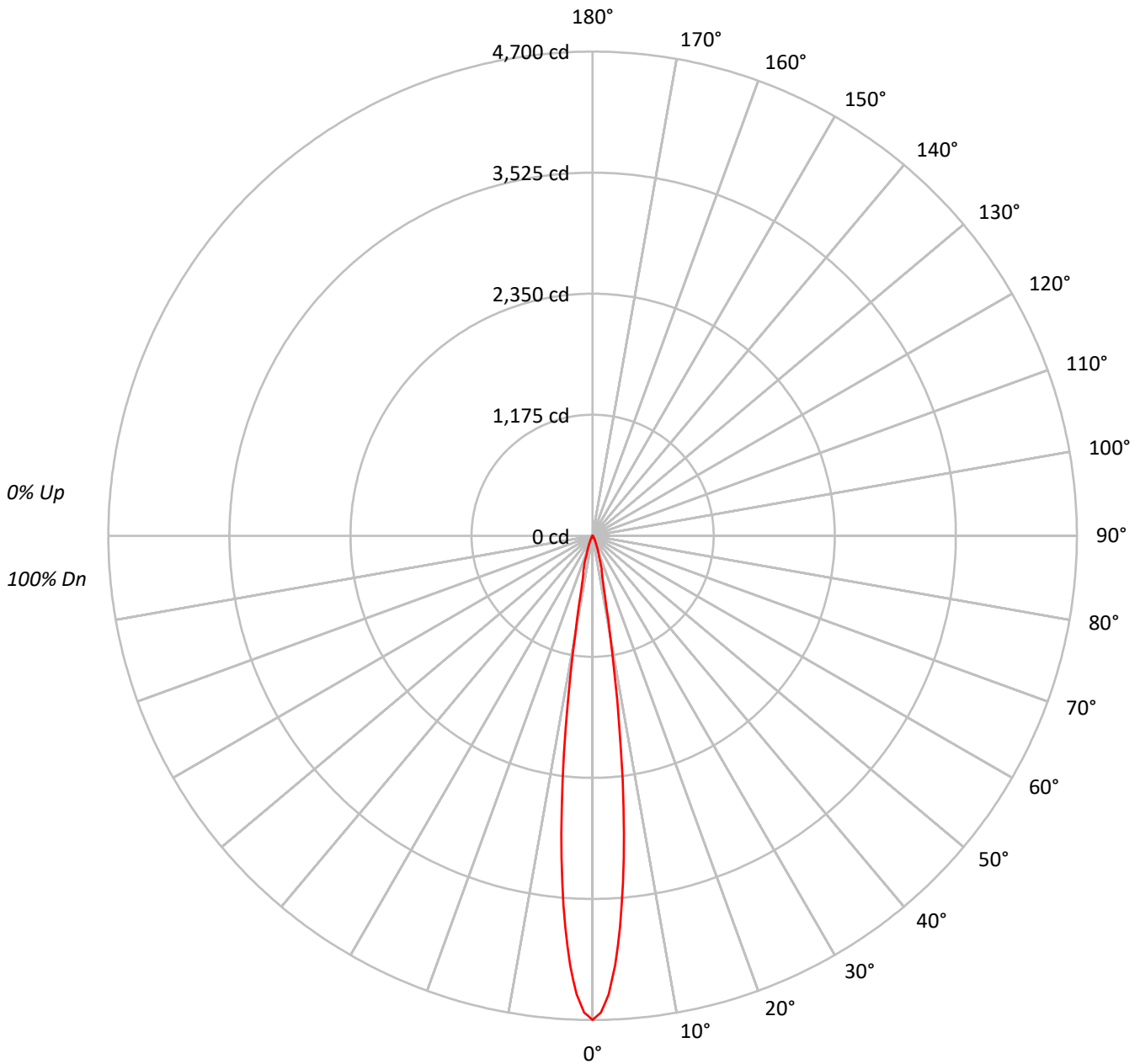
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223629

CATALOG NUMBER: LD2B10D010 EU2B10SP159727 2LBDL\*GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P223629

CATALOG NUMBER: LD2B10D010 EU2B10SP159727 2LBDL\*GPH

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

RF	20									20									20									20									20
RC	80									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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98									98										
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96									96										
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94									94										
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93									93										
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91									91										
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90									90										
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88									88										
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	89	88	87									87										
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86									86										
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85									85										

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

	0°
0°	1820681
5°	1316175
10°	383174
15°	134459
20°	57544
25°	25900
30°	10019
35°	4965
40°	3337
45°	2191
50°	1205
55°	878
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223629

CATALOG NUMBER: LD2B10D010 EU2B10SP159727 2LBDL\*GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.5	63.2
10°-20°	97.4	25.7
20°-30°	29.9	7.9
30°-40°	7.4	1.9
40°-50°	3.1	0.8
50°-60°	1.3	0.3
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°	366.9	96.8
0°-40°	374.3	98.8
0°-60°	378.7	99.9
0°-90°	378.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	378.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4700	
5°	3385	240
15°	335	97
25°	61	30
35°	10	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223629

CATALOG NUMBER: LD2B10D010 EU2B10SP159727 2LBDL\*GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4700.4
1°	4628.6
2°	4453.4
3°	4174.1
4°	3809.2
5°	3385.0
6°	2906.8
7°	2387.8
8°	1861.5
9°	1369.4
10°	974.2
11°	698.2
12°	525.0
13°	427.5
14°	374.1
15°	335.3
17.5°	206.8
20°	139.6
22.5°	93.5
25°	60.6
27.5°	36.9
30°	22.4
32.5°	14.5
35°	10.5
37.5°	8.6
40°	6.6
42.5°	5.3
45°	4.0
47.5°	2.6
50°	2.0
52.5°	2.0
55°	1.3
57.5°	1.3
60°	0.7
62.5°	0.7
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: P223629

CATALOG NUMBER: LD2B10D010 EU2B10SP159727 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)