

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: P223539

Luminaire Tested: **LD2B10D010 EU2B10NFL258027 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B10NFL258027 2LBDLC*MMS
Description: 1000 Lumen, 2inch Portfolio LED Downlight
NARROW FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 933.9 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

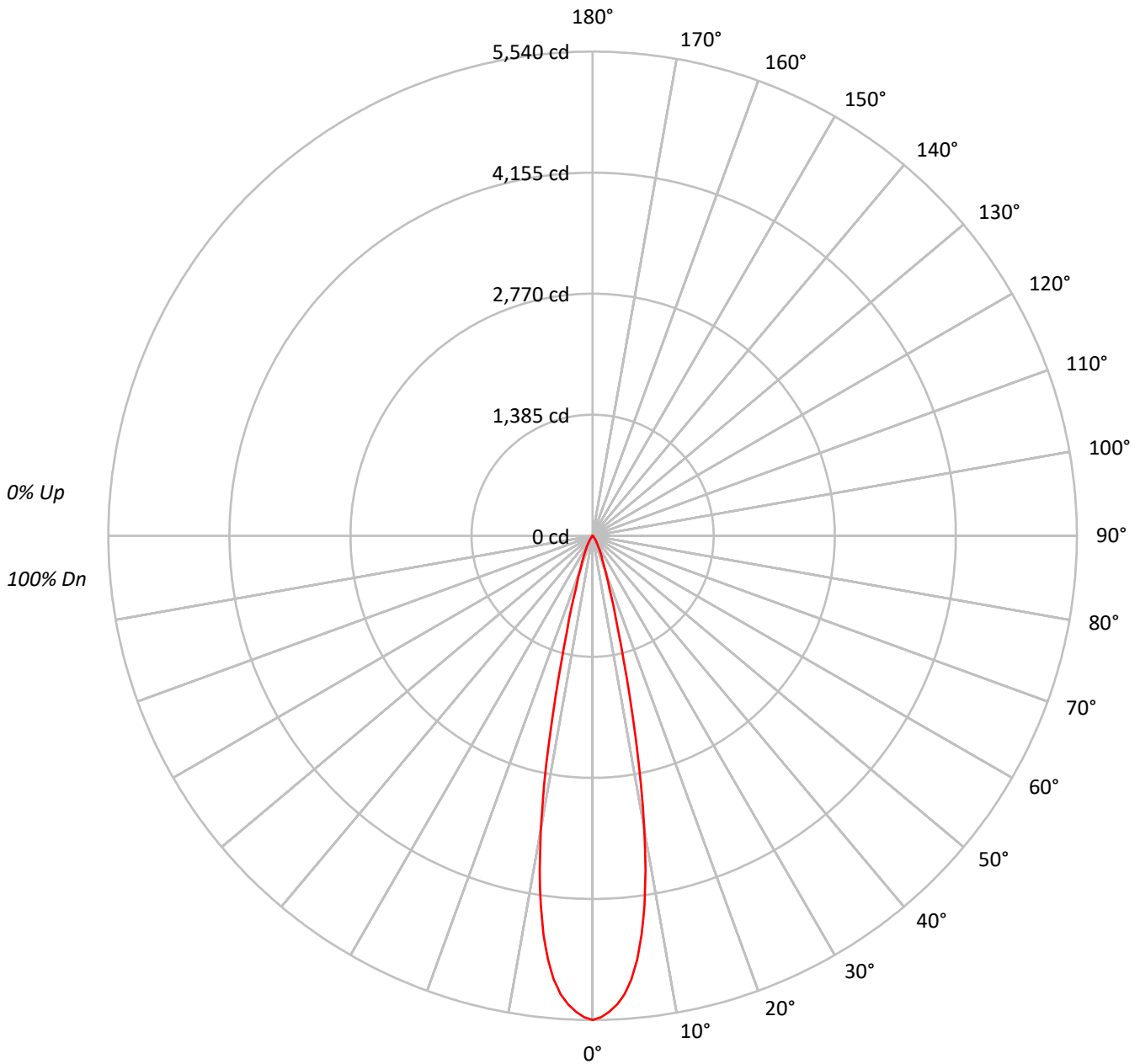
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223539

CATALOG NUMBER: LD2B10D010 EU2B10NFL258027 2LBDLC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P223539

CATALOG NUMBER: LD2B10D010 EU2B10NFL258027 2LBDLC*MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97						97													
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95						95													
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92						92													
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90						90													
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88						88													
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86						86													
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84						84													
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82						82													
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80						80													
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79						79													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2146090
5°	1981533
10°	1341226
15°	456309
20°	167603
25°	88854
30°	45666
35°	21326
40°	6978
45°	3506
50°	1687
55°	608
60°	697
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223539

CATALOG NUMBER: LD2B10D010 EU2B10NFL258027 2LBDLC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.5	46.4
10°-20°	364.5	39.0
20°-30°	100.0	10.7
30°-40°	29.2	3.1
40°-50°	5.4	0.6
50°-60°	1.2	0.1
60°-70°	0.1	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°	898.0	96.2
0°-40°	927.2	99.3
0°-60°	933.8	100.0
0°-90°	933.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5540	
5°	5096	433
15°	1138	364
25°	208	100
35°	45	29
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223539

CATALOG NUMBER: LD2B10D010 EU2B10NFL258027 2LBDLC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	5540.5
1°	5508.3
2°	5451.2
3°	5369.4
4°	5257.2
5°	5096.2
6°	4876.3
7°	4601.3
8°	4265.5
9°	3869.0
10°	3410.0
11°	2906.8
12°	2383.4
13°	1883.9
14°	1458.0
15°	1137.9
17.5°	642.1
20°	406.6
22.5°	289.8
25°	207.9
27.5°	147.2
30°	102.1
32.5°	71.8
35°	45.1
37.5°	18.4
40°	13.8
42.5°	10.1
45°	6.4
47.5°	3.7
50°	2.8
52.5°	1.8
55°	0.9
57.5°	0.9
60°	0.9
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



TEST NUMBER: P223539

CATALOG NUMBER: LD2B10D010 EU2B10NFL258027 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)