

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: P223970

Luminaire Tested: **LD2B10D010 EU2B10SP158050 2LBDLC*MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223970
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 EU2B10SP158050 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: 531.0 lumens
Efficiency: N/A
Efficacy: 51.6 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

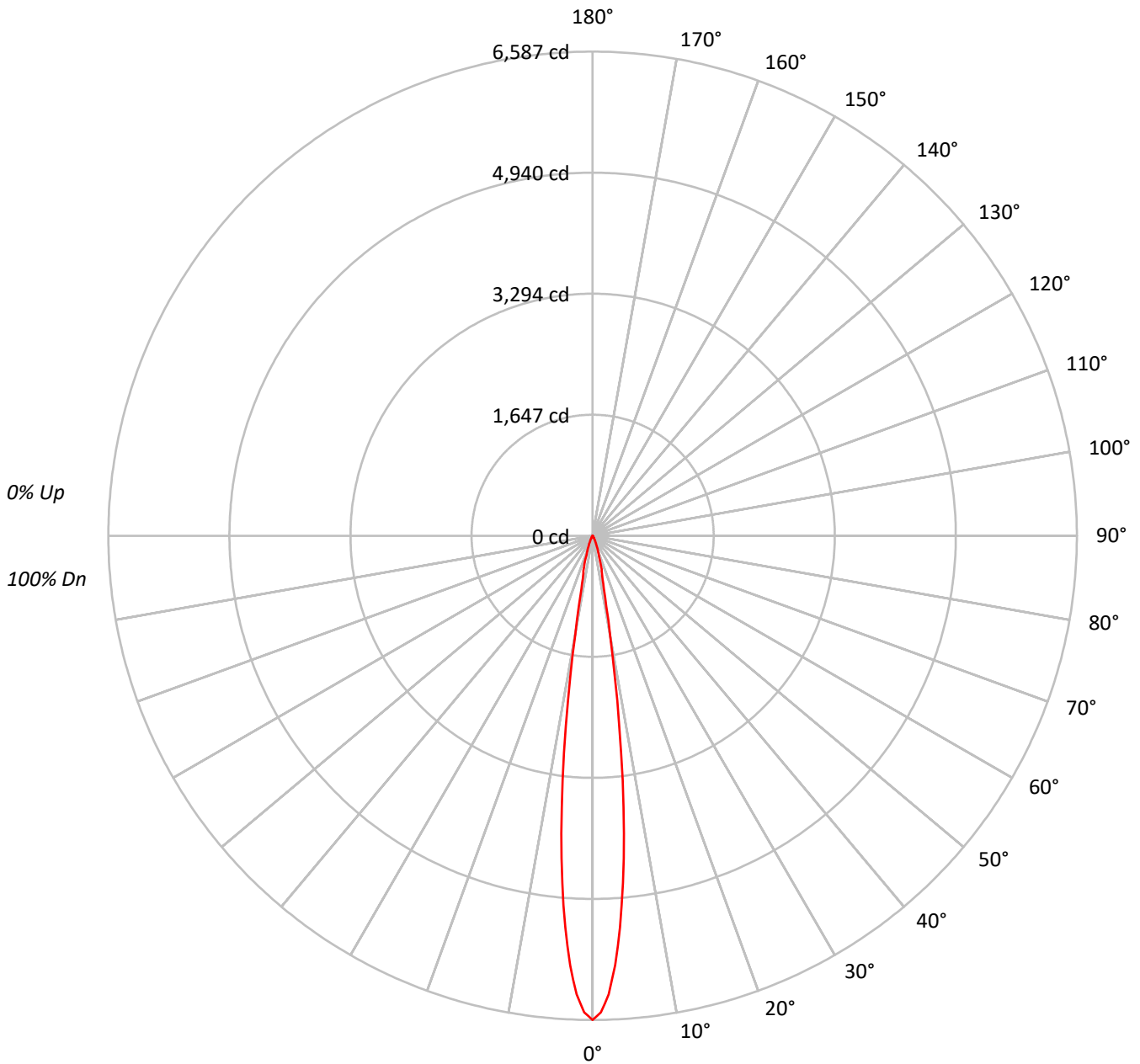
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223970

CATALOG NUMBER: LD2B10D010 EU2B10SP158050 2LBDLC*MMS

Luminous Intensity Polar Plot





TEST NUMBER: P223970

CATALOG NUMBER: LD2B10D010 EU2B10SP158050 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	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	99	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°	2551564
5°	1844550
10°	537002
15°	188435
20°	80669
25°	36285
30°	14044
35°	6998
40°	4652
45°	3013
50°	1687
55°	1216
60°	697
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223970

CATALOG NUMBER: LD2B10D010 EU2B10SP158050 2LBDLC*MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.7	63.2
10°-20°	136.6	25.7
20°-30°	41.9	7.9
30°-40°	10.3	1.9
40°-50°	4.3	0.8
50°-60°	1.8	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°	514.2	96.8
0°-40°	524.5	98.8
0°-60°	530.7	99.9
0°-90°	531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6587	
5°	4744	336
15°	470	137
25°	85	42
35°	15	10
45°	6	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223970

CATALOG NUMBER: LD2B10D010 EU2B10SP158050 2LBDLC*MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	6587.3
1°	6486.7
2°	6241.1
3°	5849.7
4°	5338.3
5°	4743.9
6°	4073.7
7°	3346.3
8°	2608.7
9°	1919.1
10°	1365.3
11°	978.5
12°	735.7
13°	599.1
14°	524.3
15°	469.9
17.5°	289.9
20°	195.7
22.5°	131.1
25°	84.9
27.5°	51.7
30°	31.4
32.5°	20.3
35°	14.8
37.5°	12.0
40°	9.2
42.5°	7.4
45°	5.5
47.5°	3.7
50°	2.8
52.5°	2.8
55°	1.8
57.5°	1.8
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: P223970

CATALOG NUMBER: LD2B10D010 EU2B10SP158050 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)