

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: P224170

Luminaire Tested: **LD2B10D010 EU2B10SP158030 2LBDC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224170
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 EU2B10SP158030 2LBDC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 588.4 lumens
Efficiency: N/A
Efficacy: 57.1 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

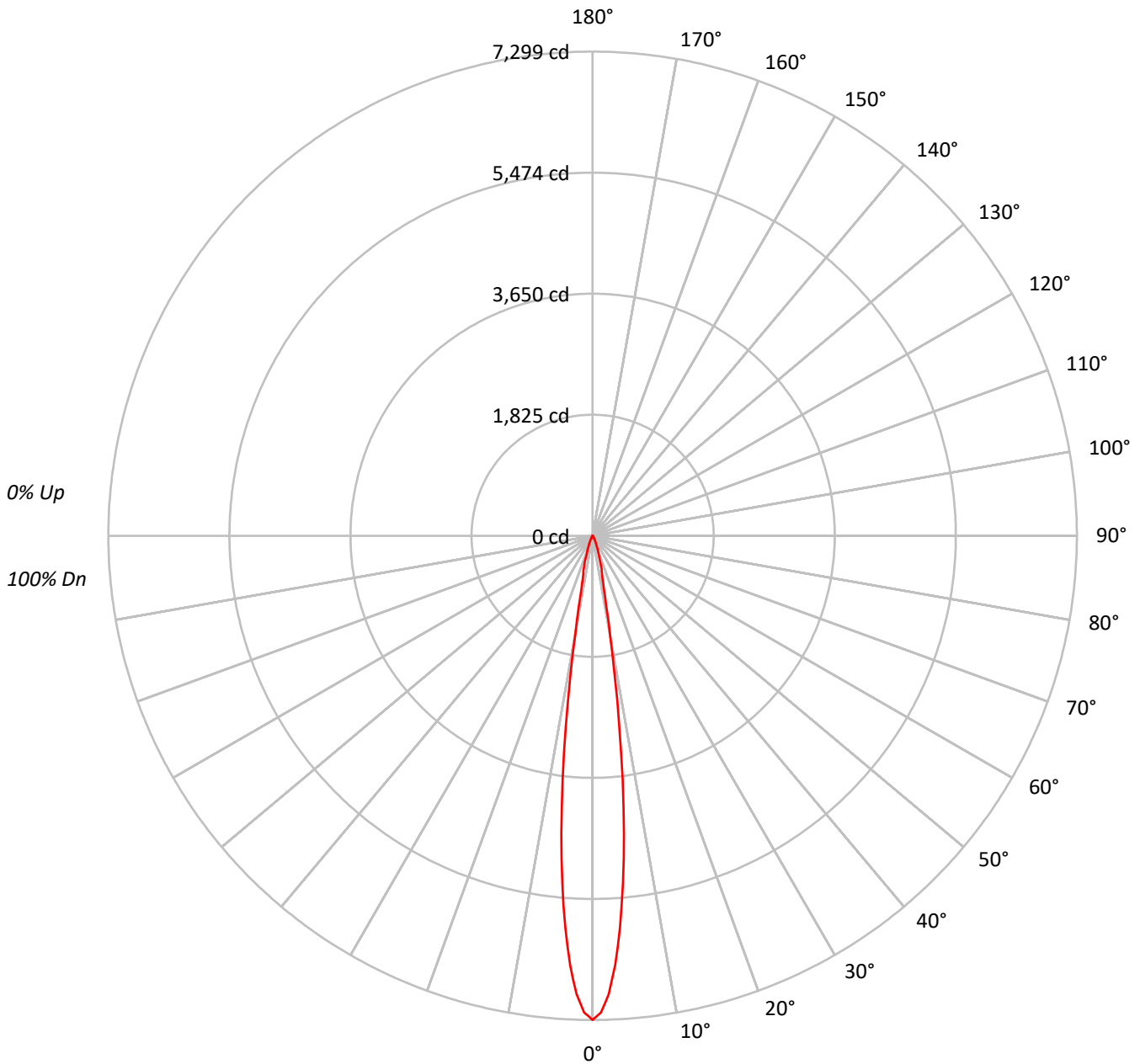
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P224170

CATALOG NUMBER: LD2B10D010 EU2B10SP158030 2LBDC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P224170

CATALOG NUMBER: LD2B10D010 EU2B10SP158030 2LBDC*MB

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	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	99	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	90	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°	2827393
5°	2043939
10°	595056
15°	208806
20°	89407
25°	40217
30°	15565
35°	7755
40°	5158
45°	3342
50°	1868
55°	1351
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224170

CATALOG NUMBER: LD2B10D010 EU2B10SP158030 2LBDC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	63.2
10°-20°	151.3	25.7
20°-30°	46.5	7.9
30°-40°	11.5	1.9
40°-50°	4.8	0.8
50°-60°	2.0	0.3
60°-70°	0.4	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°	569.8	96.8
0°-40°	581.2	98.8
0°-60°	588.0	99.9
0°-90°	588.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	588.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7299	
5°	5257	372
15°	521	151
25°	94	46
35°	16	11
45°	6	5
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224170

CATALOG NUMBER: LD2B10D010 EU2B10SP158030 2LBDC*MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	7299.4
1°	7187.9
2°	6915.8
3°	6482.1
4°	5915.4
5°	5256.7
6°	4514.0
7°	3708.0
8°	2890.7
9°	2126.6
10°	1512.9
11°	1084.3
12°	815.2
13°	663.9
14°	581.0
15°	520.7
17.5°	321.2
20°	216.9
22.5°	145.3
25°	94.1
27.5°	57.3
30°	34.8
32.5°	22.5
35°	16.4
37.5°	13.3
40°	10.2
42.5°	8.2
45°	6.1
47.5°	4.1
50°	3.1
52.5°	3.1
55°	2.0
57.5°	2.0
60°	1.0
62.5°	1.0
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: P224170

CATALOG NUMBER: LD2B10D010 EU2B10SP158030 2LBDC*MB

CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)