

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: P223765

Luminaire Tested: **LD2B10D010 EU2B10SP159035 2LBDL*GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223765
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 EU2B10SP159035 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: 455.0 lumens
Efficiency: N/A
Efficacy: 44.2 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

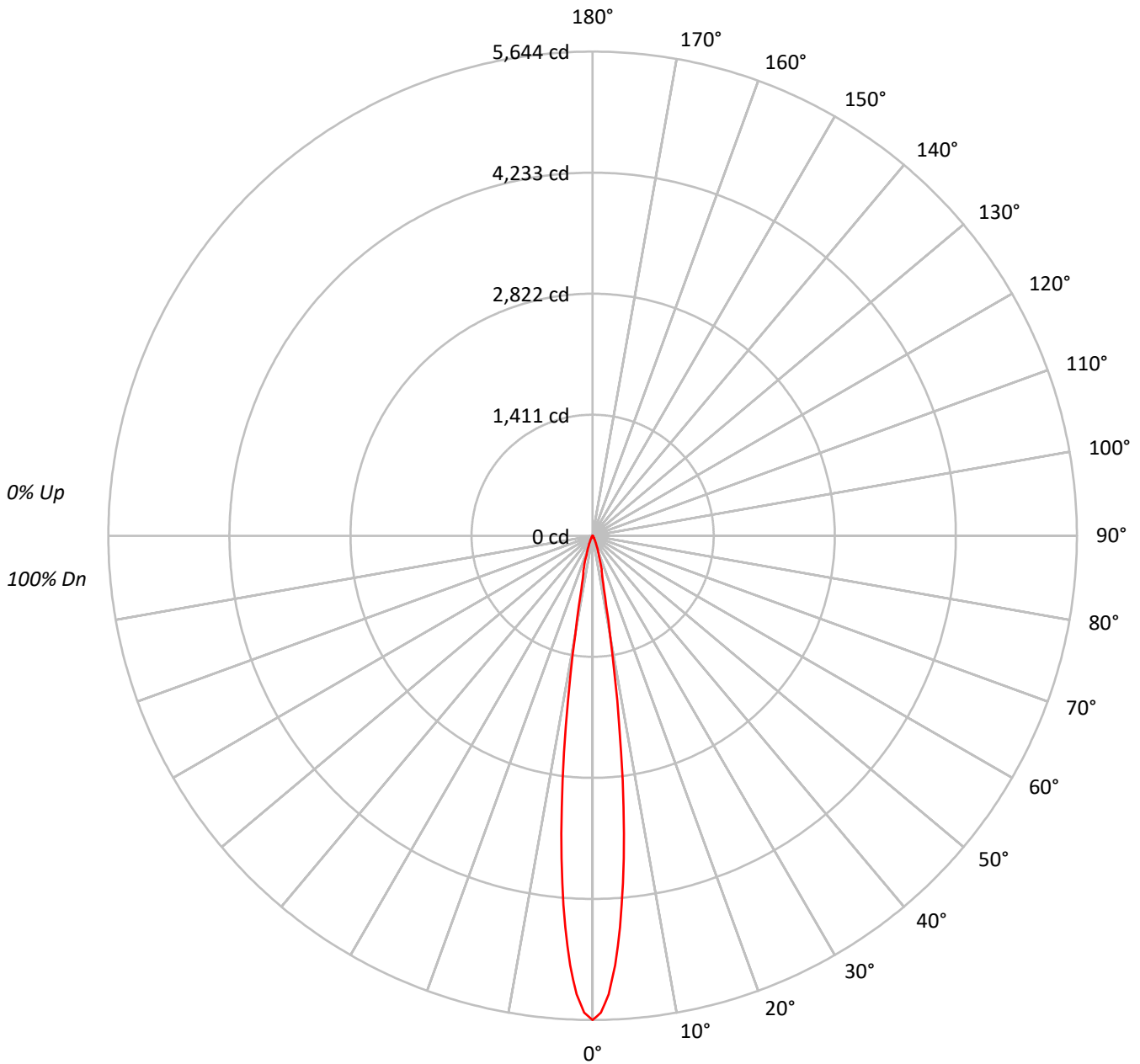
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P223765

CATALOG NUMBER: LD2B10D010 EU2B10SP159035 2LBDL*GPH

Luminous Intensity Polar Plot





TEST NUMBER: P223765

CATALOG NUMBER: LD2B10D010 EU2B10SP159035 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°	2186374
5°	1580537
10°	460147
15°	161447
20°	69127
25°	31114
30°	12032
35°	6005
40°	3995
45°	2575
50°	1446
55°	1081
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223765

CATALOG NUMBER: LD2B10D010 EU2B10SP159035 2LBDL*GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.6	63.2
10°-20°	117.0	25.7
20°-30°	35.9	7.9
30°-40°	8.9	1.9
40°-50°	3.7	0.8
50°-60°	1.6	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°	440.6	96.8
0°-40°	449.5	98.8
0°-60°	454.7	99.9
0°-90°	455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5644	
5°	4065	288
15°	403	117
25°	73	36
35°	13	9
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223765

CATALOG NUMBER: LD2B10D010 EU2B10SP159035 2LBDL*GPH

CANDELA DISTRIBUTION (FULL):

	0°
0°	5644.5
1°	5558.3
2°	5347.9
3°	5012.5
4°	4574.3
5°	4064.9
6°	3490.6
7°	2867.3
8°	2235.3
9°	1644.5
10°	1169.9
11°	838.4
12°	630.4
13°	513.4
14°	449.3
15°	402.6
17.5°	248.4
20°	167.7
22.5°	112.3
25°	72.8
27.5°	44.3
30°	26.9
32.5°	17.4
35°	12.7
37.5°	10.3
40°	7.9
42.5°	6.3
45°	4.7
47.5°	3.2
50°	2.4
52.5°	2.4
55°	1.6
57.5°	1.6
60°	0.8
62.5°	0.8
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: P223765

CATALOG NUMBER: LD2B10D010 EU2B10SP159035 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)