

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: P223708

Luminaire Tested: **LD2B10D010 EU2B10SP159050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223708
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 EU2B10SP159050 2LBDSQLC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 479.0 lumens
Efficiency: N/A
Efficacy: 46.5 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

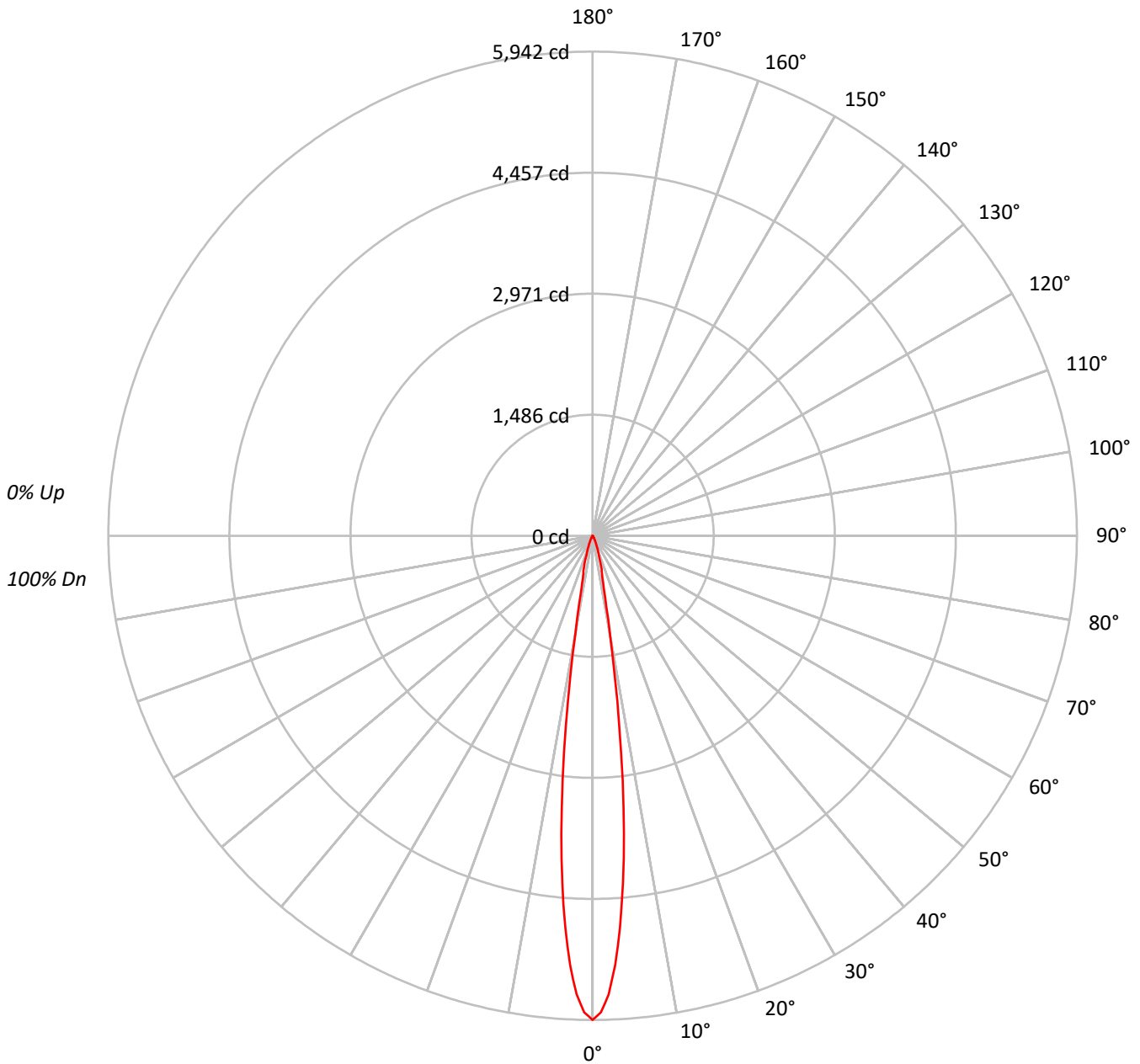
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	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	100	100	100	100	100	100	100	100	100																	
	1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	98	98	98	98	98	98	98	98	98	98	98																
	2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96	96	96	96	96	96	96	96	96	96	96	96																
	3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94	94	94	94	94	94	94	94	94	94	94	94																
	4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	92	92	92	92	92	92	92	92	92	92	92	92																
	5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	90	90	90	90	90	90	90	90	90	90	90	90																
	6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	89	89	89	89	89	89	89	89	89	89	89	89																
	7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	87	87	87	87	87	87	87	87	87	87	87	87																
	8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	86	86	86	86	86	86	86	86	86	86	86	86																
	9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	85	85	85	85	85	85	85	85	85	85	85	85																
	10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	84	84	84	84	84	84	84	84	84	84	84	84																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2301687
5°	1663901
10°	484415
15°	169948
20°	72754
25°	32738
30°	12658
35°	6289
40°	4197
45°	2739
50°	1507
55°	1148
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	63.2
10°-20°	123.2	25.7
20°-30°	37.8	7.9
30°-40°	9.3	1.9
40°-50°	3.9	0.8
50°-60°	1.7	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°	463.8	96.8
0°-40°	473.1	98.8
0°-60°	478.7	99.9
0°-90°	479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5942	
5°	4279	303
15°	424	123
25°	77	38
35°	13	9
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5942.2
1°	5851.5
2°	5630.0
3°	5276.9
4°	4815.6
5°	4279.3
6°	3674.7
7°	3018.6
8°	2353.2
9°	1731.2
10°	1231.6
11°	882.7
12°	663.7
13°	540.4
14°	473.0
15°	423.8
17.5°	261.5
20°	176.5
22.5°	118.2
25°	76.6
27.5°	46.6
30°	28.3
32.5°	18.3
35°	13.3
37.5°	10.8
40°	8.3
42.5°	6.7
45°	5.0
47.5°	3.3
50°	2.5
52.5°	2.5
55°	1.7
57.5°	1.7
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



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)