

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: P223638

Luminaire Tested: **LD2B10D010 EU2B10SP159727 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P223638
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 EU2B10SP159727 2LBDSQC*MB
Description: 1000 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 381.6 lumens
Efficiency: N/A
Efficacy: 37.0 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

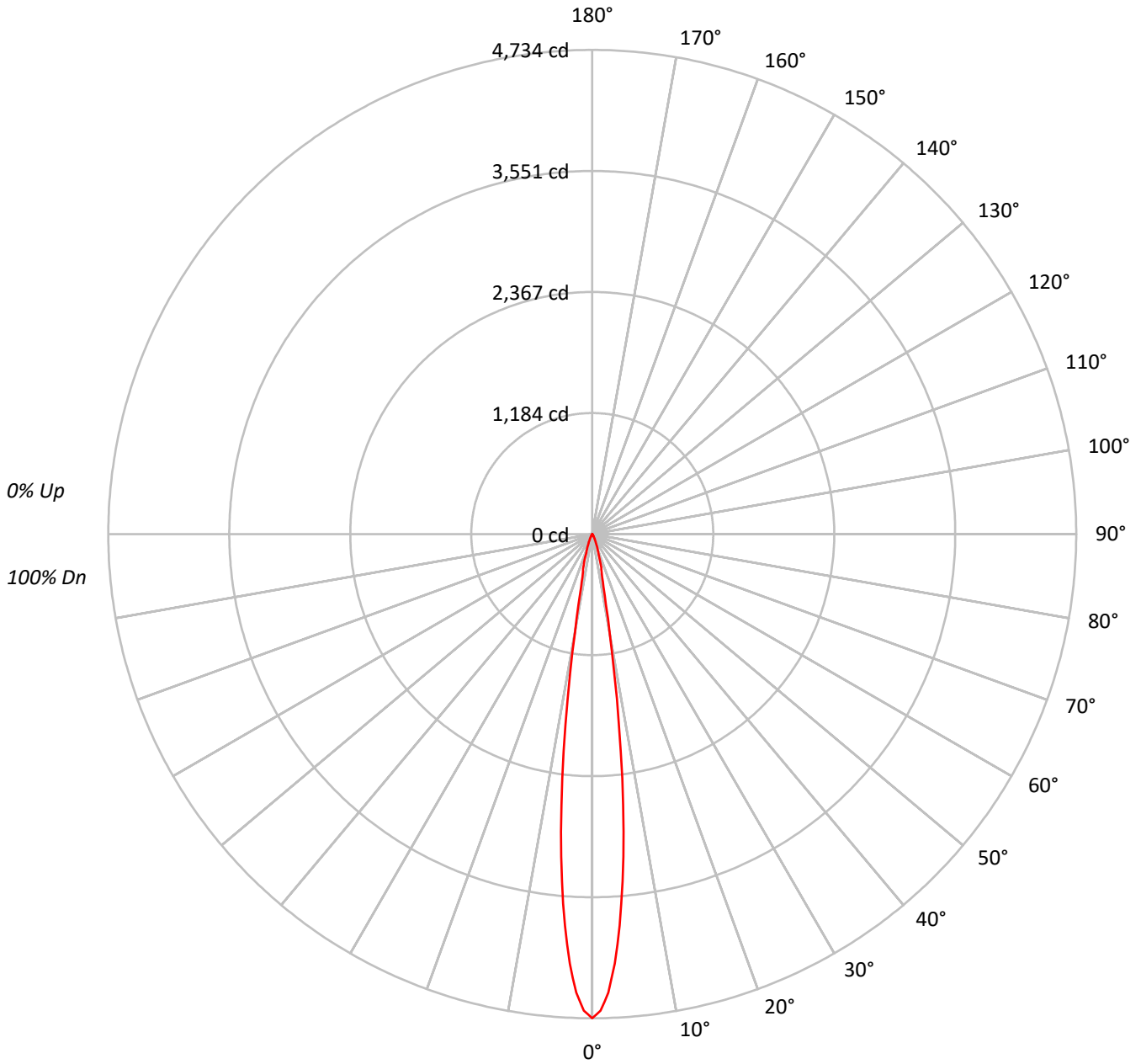
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20						20							20							
RC	80					70					50					30						10						0													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					102	102	102										100
	1	116	114	112	111		113	112	110	109		108	107	106		104	103	103				101	100	100					101	100	100										98
	2	113	110	107	105		111	108	106	104		105	103	102		102	101	100				100	99	98					100	99	98										96
	3	110	106	103	101		108	105	102	100		102	100	98		100	98	97				98	97	96					98	97	96										94
	4	108	103	100	97		106	102	99	97		100	98	96		98	96	95				97	95	94					97	95	94										93
	5	105	101	97	95		104	100	97	94		98	96	94		97	95	93				95	94	92					95	94	92										91
	6	103	98	95	93		102	98	95	92		96	94	92		95	93	91				94	92	91					94	92	91										90
	7	101	96	93	91		100	96	93	90		95	92	90		94	91	90				93	91	89					93	91	89										88
	8	100	94	91	89		99	94	91	89		93	90	89		92	90	88				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					90	88	87										86
	10	96	91	88	86		96	91	88	86		90	88	86		90	87	86				89	87	86					89	87	86										85

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1833657
5°	1325545
10°	385888
15°	135421
20°	57956
25°	26071
30°	10108
35°	5012
40°	3337
45°	2191
50°	1205
55°	878
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	63.2
10°-20°	98.1	25.7
20°-30°	30.1	7.9
30°-40°	7.4	1.9
40°-50°	3.1	0.8
50°-60°	1.3	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°	369.5	96.8
0°-40°	376.9	98.8
0°-60°	381.3	99.9
0°-90°	381.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	381.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4734	
5°	3409	241
15°	338	98
25°	61	30
35°	11	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4733.9
1°	4661.6
2°	4485.2
3°	4203.9
4°	3836.4
5°	3409.1
6°	2927.5
7°	2404.8
8°	1874.7
9°	1379.2
10°	981.1
11°	703.2
12°	528.7
13°	430.5
14°	376.8
15°	337.7
17.5°	208.3
20°	140.6
22.5°	94.2
25°	61.0
27.5°	37.1
30°	22.6
32.5°	14.6
35°	10.6
37.5°	8.6
40°	6.6
42.5°	5.3
45°	4.0
47.5°	2.7
50°	2.0
52.5°	2.0
55°	1.3
57.5°	1.3
60°	0.7
62.5°	0.7
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)