

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: P223864

Luminaire Tested: **LD2B10D010 EU2B10SP159027 2LBDSQC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
 Report Number: P223864
 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 EU2B10SP159027 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: 424.3 lumens
 Efficiency: N/A
 Efficacy: 41.2 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

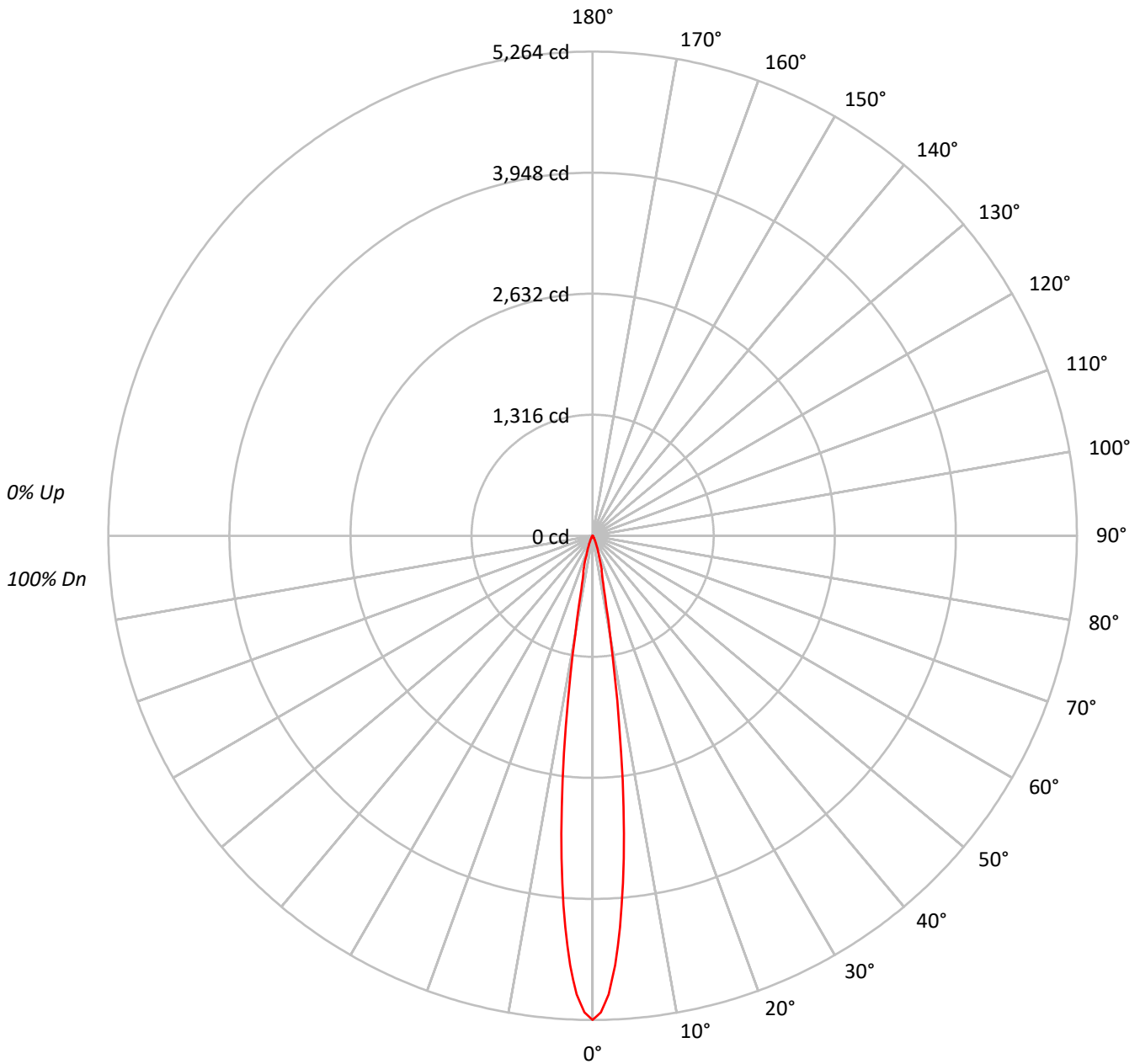
 Input Watts (W): 10.3
 Input Voltage (V): NR
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	2038834
5°	1473882
10°	429074
15°	150539
20°	64469
25°	29020
30°	11226
35°	5580
40°	3742
45°	2410
50°	1326
55°	1013
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	63.2
10°-20°	109.1	25.7
20°-30°	33.5	7.9
30°-40°	8.3	1.9
40°-50°	3.4	0.8
50°-60°	1.5	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
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0°-30°	410.9	96.8
0°-40°	419.1	98.8
0°-60°	424.0	99.9
0°-90°	424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5264	
5°	3791	268
15°	375	109
25°	68	33
35°	12	8
45°	4	3
55°	2	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	<i>5263.6</i>
1°	<i>5183.2</i>
2°	<i>4987.0</i>
3°	<i>4674.3</i>
4°	<i>4265.6</i>
5°	<i>3790.6</i>
6°	<i>3255.1</i>
7°	<i>2673.9</i>
8°	<i>2084.5</i>
9°	<i>1533.5</i>
10°	<i>1090.9</i>
11°	<i>781.9</i>
12°	<i>587.9</i>
13°	<i>478.7</i>
14°	<i>419.0</i>
15°	<i>375.4</i>
17.5°	<i>231.6</i>
20°	<i>156.4</i>
22.5°	<i>104.7</i>
25°	<i>67.9</i>
27.5°	<i>41.3</i>
30°	<i>25.1</i>
32.5°	<i>16.2</i>
35°	<i>11.8</i>
37.5°	<i>9.6</i>
40°	<i>7.4</i>
42.5°	<i>5.9</i>
45°	<i>4.4</i>
47.5°	<i>3.0</i>
50°	<i>2.2</i>
52.5°	<i>2.2</i>
55°	<i>1.5</i>
57.5°	<i>1.5</i>
60°	<i>0.7</i>
62.5°	<i>0.7</i>
65°	<i>0.0</i>
67.5°	<i>0.0</i>
70°	<i>0.0</i>
72.5°	<i>0.0</i>
75°	<i>0.0</i>
77.5°	<i>0.0</i>
80°	<i>0.0</i>
82.5°	<i>0.0</i>

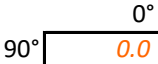
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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CANDELA DISTRIBUTION (continued):





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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)