

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: P222429

Luminaire Tested: **LD2B20D010 EU2B20NFL259050 2LBDLC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P222429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20NFL259050 2LBDLC\*MMS  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1519.0 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

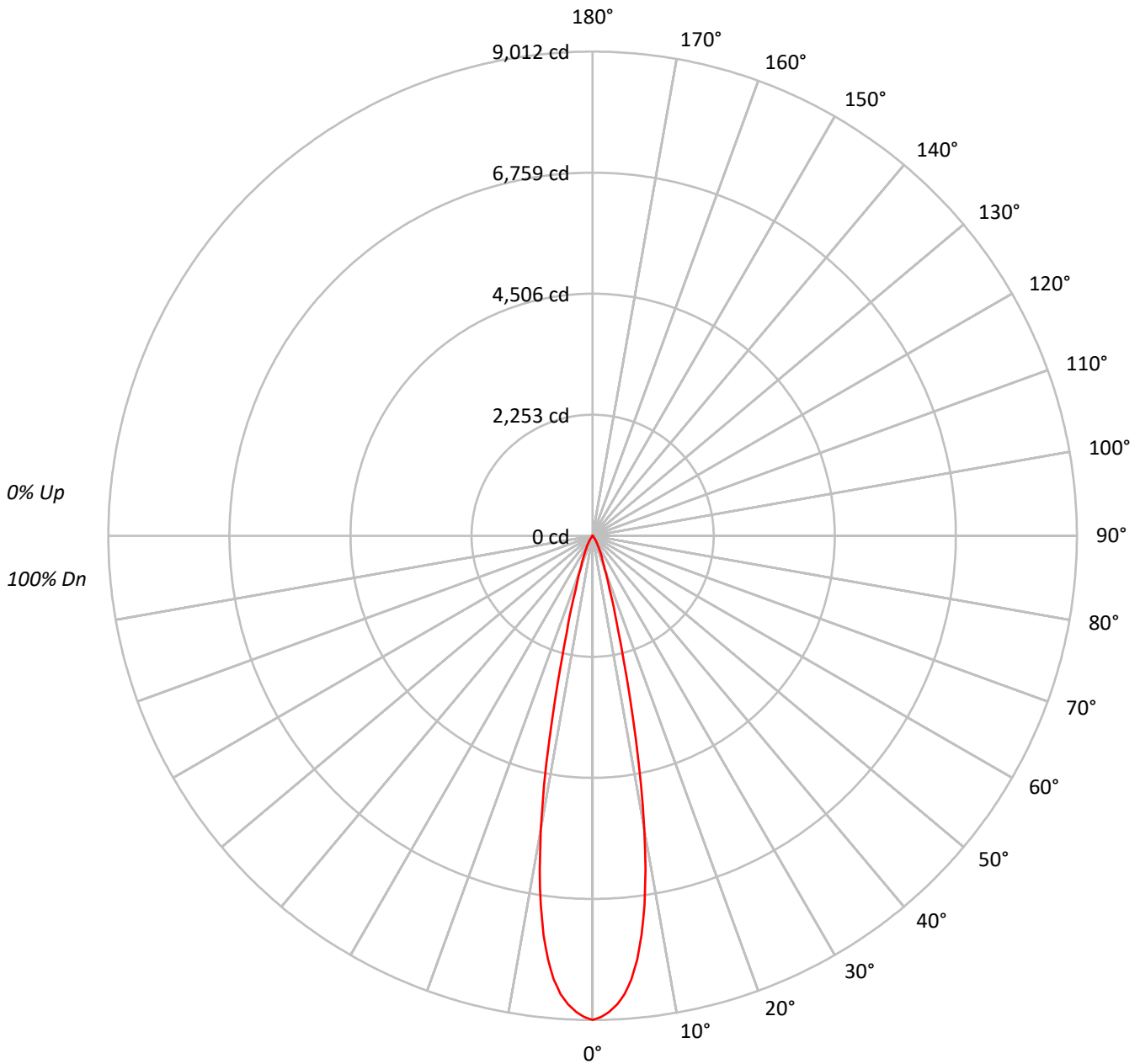
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92				92															
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90				90															
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88				88															
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86				86															
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84				84															
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82				82															
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80				80															
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79				79															

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	3490646
5°	3222975
10°	2181518
15°	742189
20°	272591
25°	144500
30°	74291
35°	34661
40°	11326
45°	5752
50°	2712
55°	1013
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.1	46.4
10°-20°	592.8	39.0
20°-30°	162.7	10.7
30°-40°	47.4	3.1
40°-50°	8.8	0.6
50°-60°	2.0	0.1
60°-70°	0.2	0.0
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°	1460.6	96.2
0°-40°	1508.0	99.3
0°-60°	1518.8	100.0
0°-90°	1519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9012	
5°	8289	705
15°	1851	593
25°	338	163
35°	73	47
45°	10	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9011.7
1°	8959.3
2°	8866.5
3°	8733.4
4°	8550.8
5°	8289.0
6°	7931.4
7°	7484.0
8°	6937.9
9°	6293.0
10°	5546.4
11°	4728.0
12°	3876.7
13°	3064.2
14°	2371.5
15°	1850.8
17.5°	1044.4
20°	661.3
22.5°	471.3
25°	338.1
27.5°	239.4
30°	166.1
32.5°	116.7
35°	73.3
37.5°	29.9
40°	22.4
42.5°	16.5
45°	10.5
47.5°	6.0
50°	4.5
52.5°	3.0
55°	1.5
57.5°	1.5
60°	1.5
62.5°	0.0
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



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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)