

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: P223064

Luminaire Tested: **LD2B20D010 EU2B20NFL258050 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223064  
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 EU2B20NFL258050 2LBDL\*B  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1926.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

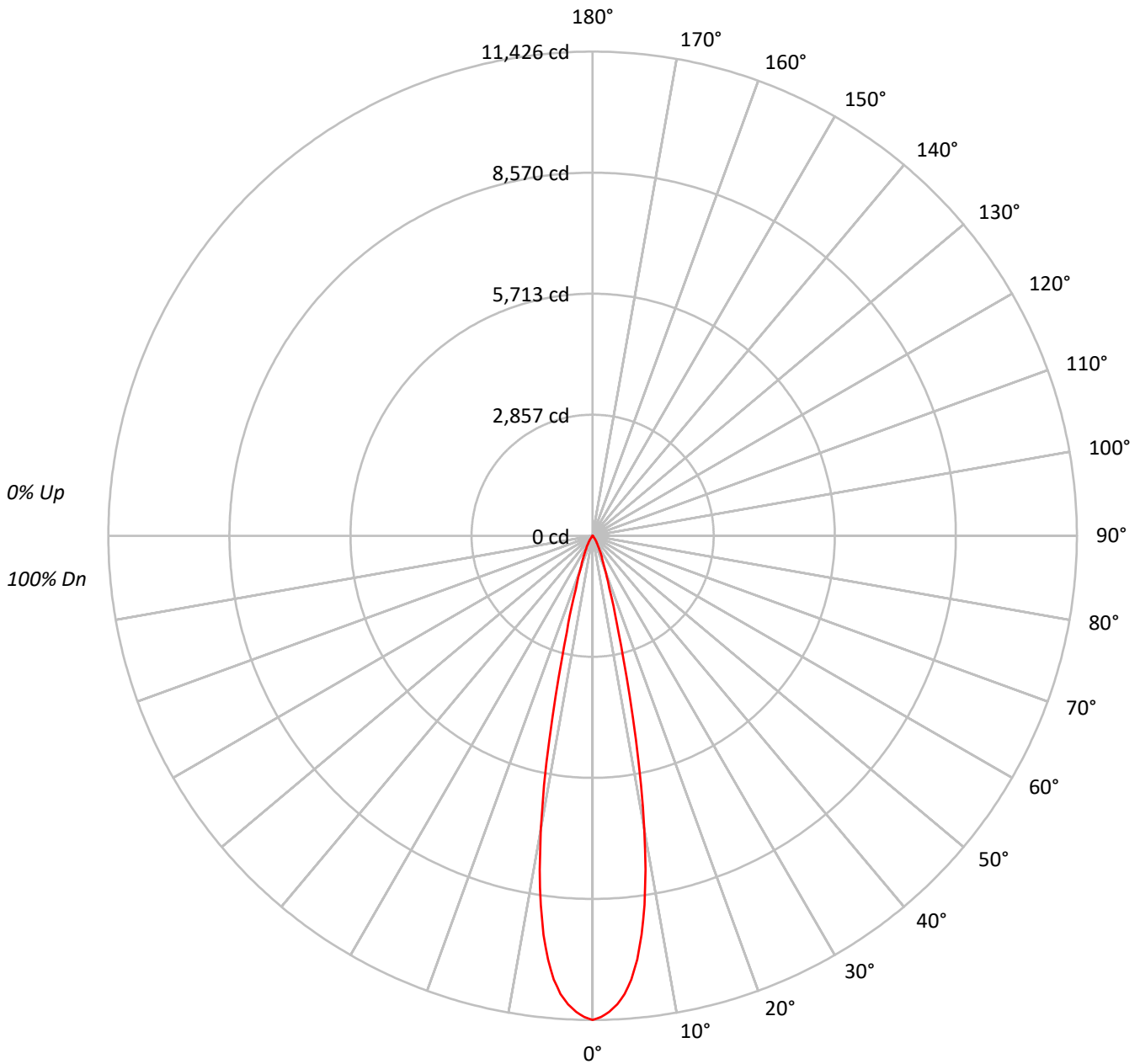
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	93	92
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	91	90
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	89	88	88
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	87	86	86
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	85	84	84
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84	83	82	82
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	81	80	80
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	79	79	79
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

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

	0°
0°	4425893
5°	4086518
10°	2766033
15°	941050
20°	345634
25°	183222
30°	94195
35°	43976
40°	14411
45°	7286
50°	3435
55°	1283
60°	1472
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	894.0	46.4
10°-20°	751.7	39.0
20°-30°	206.3	10.7
30°-40°	60.2	3.1
40°-50°	11.1	0.6
50°-60°	2.5	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°	1852.0	96.2
0°-40°	1912.1	99.3
0°-60°	1925.8	100.0
0°-90°	1926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1926.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11426	
5°	10510	894
15°	2347	752
25°	429	206
35°	93	60
45°	13	11
55°	2	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11426.2
1°	11359.8
2°	11242.2
3°	11073.4
4°	10841.9
5°	10509.9
6°	10056.5
7°	9489.3
8°	8796.9
9°	7979.2
10°	7032.5
11°	5994.8
12°	4915.4
13°	3885.3
14°	3006.9
15°	2346.7
17.5°	1324.2
20°	838.5
22.5°	597.6
25°	428.7
27.5°	303.5
30°	210.6
32.5°	148.0
35°	93.0
37.5°	37.9
40°	28.5
42.5°	20.9
45°	13.3
47.5°	7.6
50°	5.7
52.5°	3.8
55°	1.9
57.5°	1.9
60°	1.9
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)