

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: P223180

Luminaire Tested: **LD2B20D010 EU2B20NFL258040 2LBDL\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223180  
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 EU2B20NFL258040 2LBDL\*WMH  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1829.1 lumens  
Efficiency: N/A  
Efficacy: 87.5 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

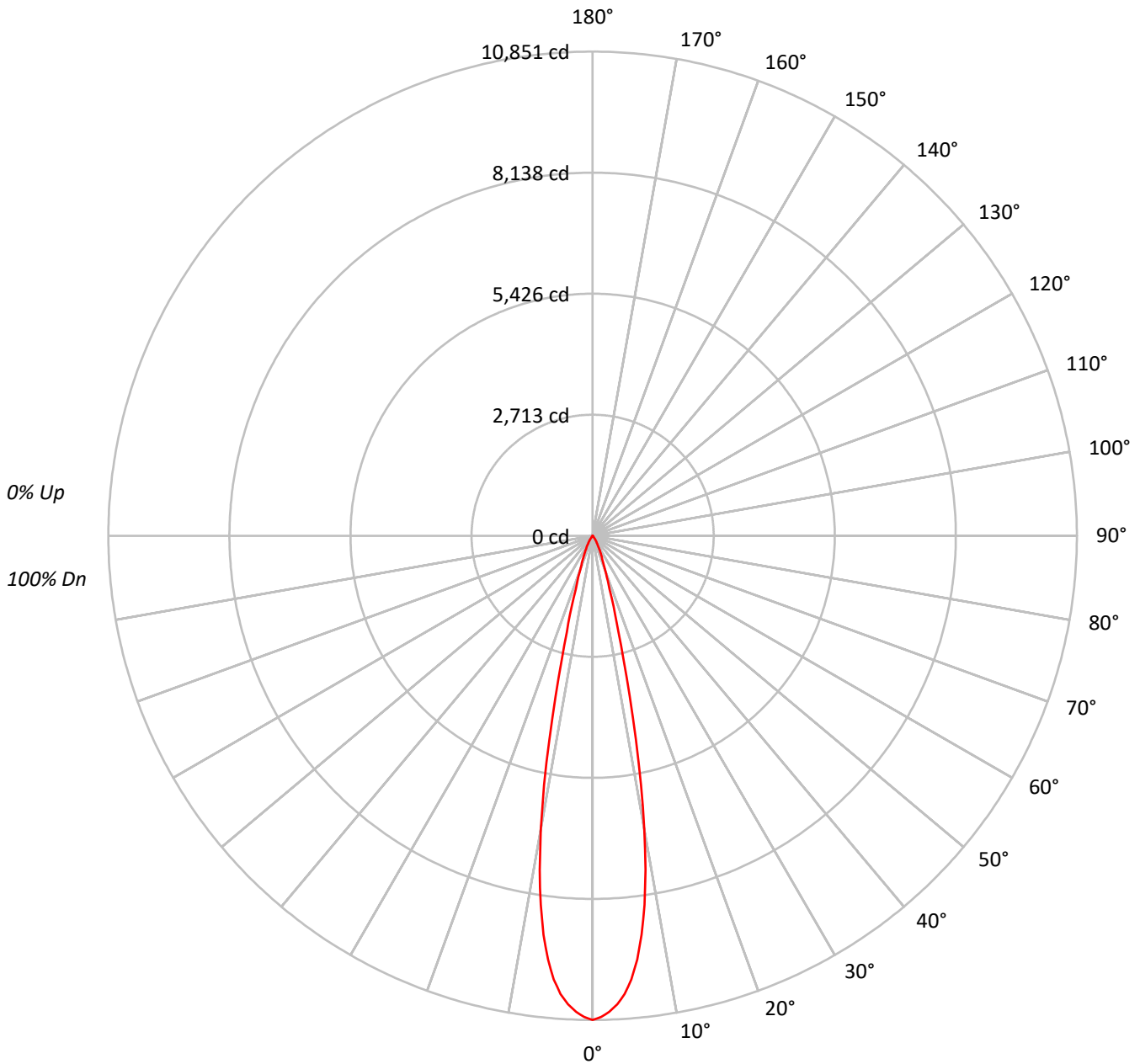
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°
0°	4203246
5°	3880946
10°	2626876
15°	893691
20°	328239
25°	174033
30°	89454
35°	41754
40°	13652
45°	6902
50°	3254
55°	1216
60°	1394
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	849.0	46.4
10°-20°	713.9	39.0
20°-30°	195.9	10.7
30°-40°	57.1	3.1
40°-50°	10.6	0.6
50°-60°	2.4	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°	1758.8	96.2
0°-40°	1815.9	99.3
0°-60°	1828.9	100.0
0°-90°	1829.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1829.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10851	
5°	9981	849
15°	2229	714
25°	407	196
35°	88	57
45°	13	11
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10851.4
1°	10788.3
2°	10676.6
3°	10516.3
4°	10296.5
5°	9981.2
6°	9550.6
7°	9011.9
8°	8354.3
9°	7577.8
10°	6678.7
11°	5693.2
12°	4668.1
13°	3689.8
14°	2855.6
15°	2228.6
17.5°	1257.6
20°	796.3
22.5°	567.5
25°	407.2
27.5°	288.3
30°	200.0
32.5°	140.5
35°	88.3
37.5°	36.0
40°	27.0
42.5°	19.8
45°	12.6
47.5°	7.2
50°	5.4
52.5°	3.6
55°	1.8
57.5°	1.8
60°	1.8
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)