

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: P225526

Luminaire Tested: **LD2B20D010 EU2B20FL408050 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL408050 2LBDL\*H  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1821.8 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

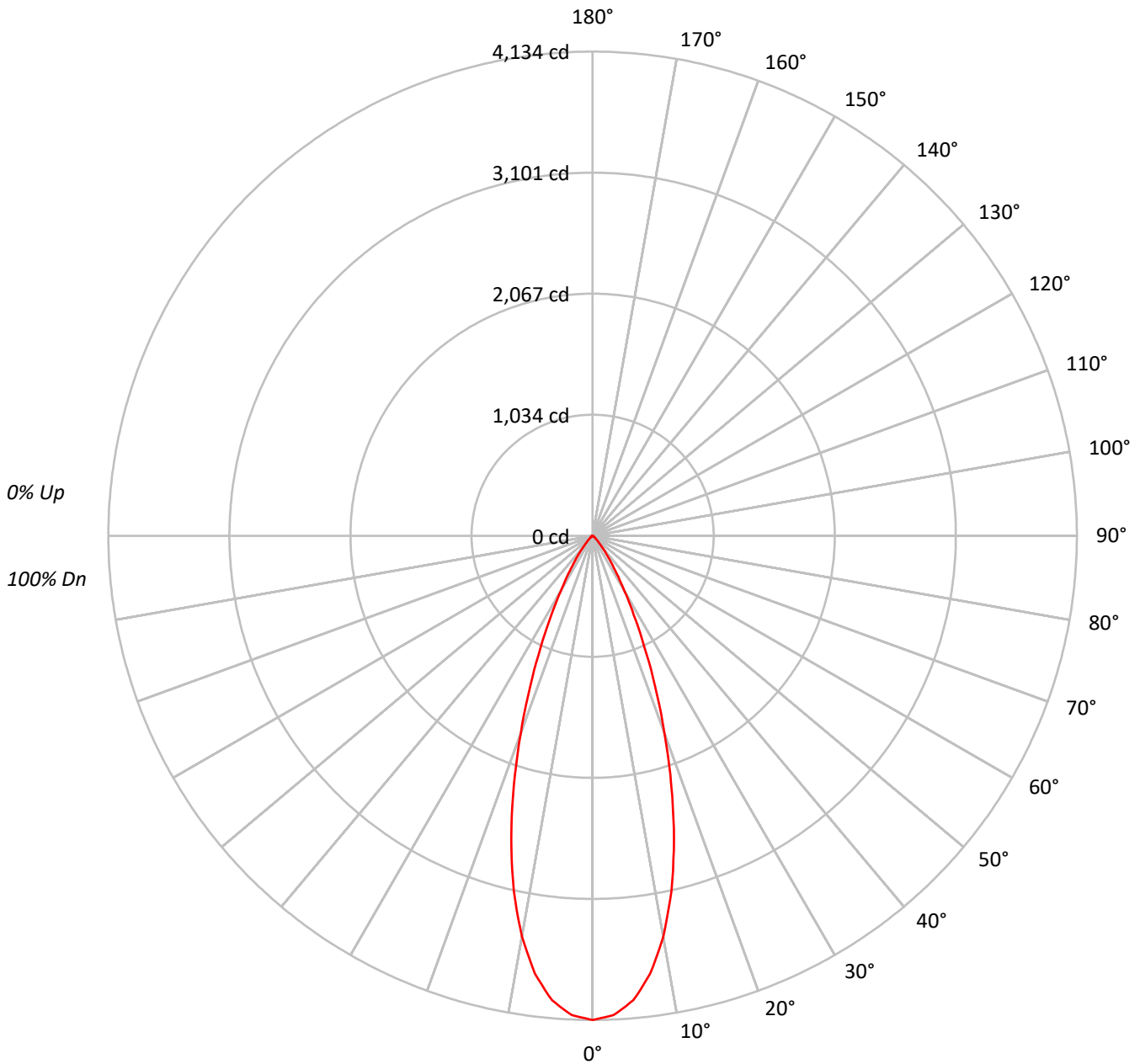
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86																			
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82																			
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78																			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74																			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71																			
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68																			
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65																			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62																			

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

	0°
0°	1601443
5°	1548109
10°	1365966
15°	1076151
20°	739537
25°	446579
30°	242062
35°	124410
40°	60829
45°	28814
50°	15125
55°	10130
60°	5810
65°	2291
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.8	20.0
10°-20°	730.6	40.1
20°-30°	488.1	26.8
30°-40°	176.8	9.7
40°-50°	45.6	2.5
50°-60°	13.6	0.7
60°-70°	3.4	0.2
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°	1582.4	86.9
0°-40°	1759.2	96.6
0°-60°	1818.4	99.8
0°-90°	1821.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4134	
5°	3982	364
15°	2684	731
25°	1045	488
35°	263	177
45°	53	46
55°	15	14
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4134.4
2.5°	4096.8
5°	3981.5
7.5°	3771.1
10°	3472.9
12.5°	3107.1
15°	2683.6
17.5°	2232.6
20°	1794.1
22.5°	1390.7
25°	1044.9
27.5°	761.7
30°	541.2
32.5°	380.9
35°	263.1
37.5°	182.9
40°	120.3
42.5°	77.7
45°	52.6
47.5°	37.6
50°	25.1
52.5°	20.0
55°	15.0
57.5°	10.0
60°	7.5
62.5°	5.0
65°	2.5
67.5°	2.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)