

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: P224931

Luminaire Tested: **LD2B20D010 EU2B20FL409050 2LBD\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224931  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (156)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20FL409050 2LBD\*H  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1630.4 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

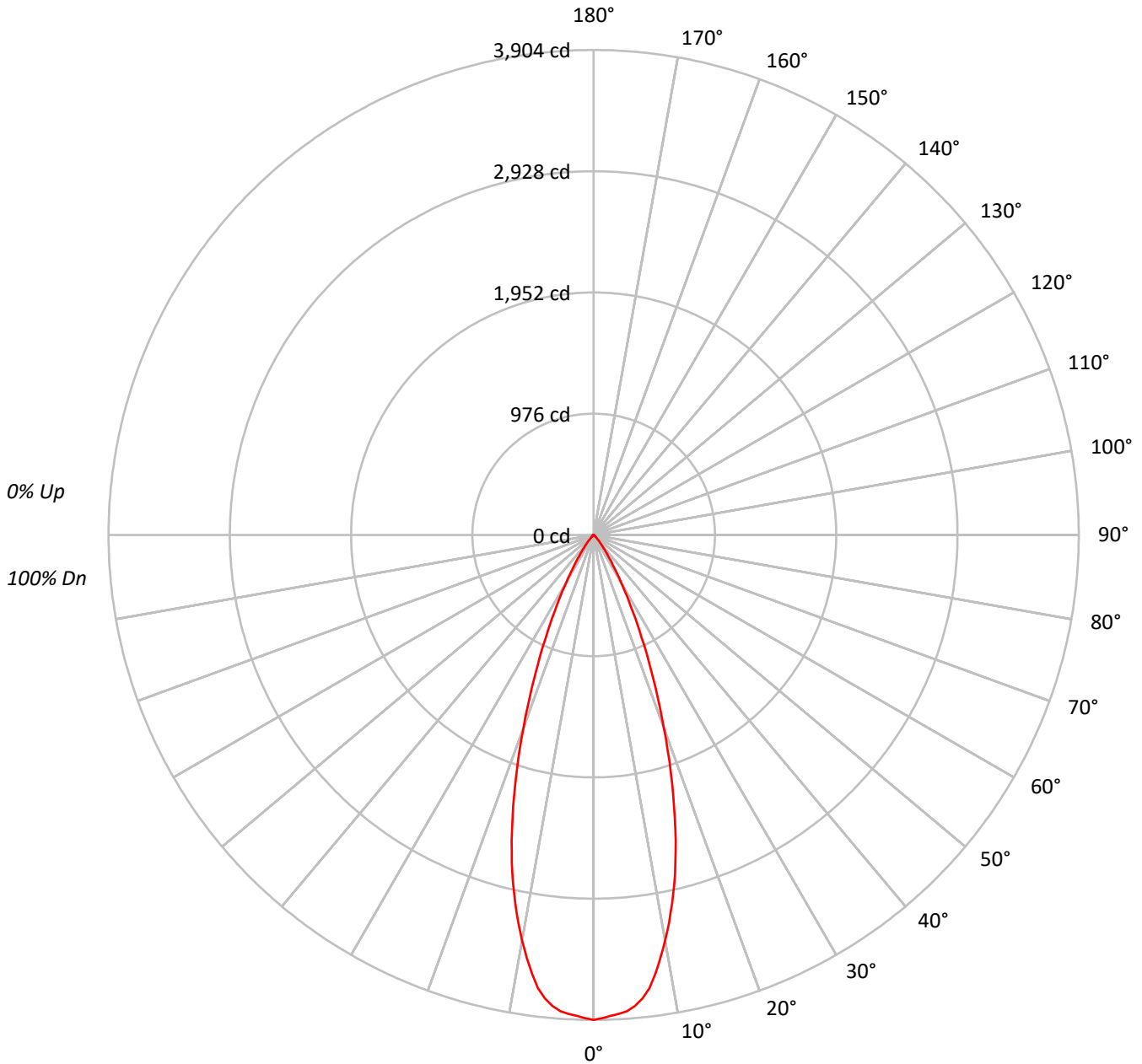
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224931

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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91			91
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87			87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83			83
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	86	83	80	79			79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76			76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73			73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70			70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67			67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64			64

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

	0°
0°	1512276
5°	1480609
10°	1303979
15°	1023057
20°	679396
25°	389992
30°	195591
35°	90317
40°	36710
45°	16434
50°	8557
55°	5335
60°	2479
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.8	21.3
10°-20°	690.5	42.4
20°-30°	429.0	26.3
30°-40°	129.4	7.9
40°-50°	26.4	1.6
50°-60°	6.8	0.4
60°-70°	0.4	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°	1467.3	90.0
0°-40°	1596.8	97.9
0°-60°	1630.0	100.0
0°-90°	1630.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1630.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3904	
5°	3808	348
15°	2551	691
25°	912	429
35°	191	129
45°	30	26
55°	8	7
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3904.2
1°	3891.5
2°	3874.2
3°	3861.5
4°	3842.6
5°	3807.9
6°	3752.6
7°	3676.8
8°	3567.9
9°	3444.8
10°	3315.3
11°	3177.9
12°	3034.3
13°	2884.3
14°	2720.1
15°	2551.2
17.5°	2098.1
20°	1648.2
22.5°	1250.3
25°	912.5
27.5°	644.1
30°	437.3
32.5°	287.3
35°	191.0
37.5°	118.4
40°	72.6
42.5°	47.4
45°	30.0
47.5°	18.9
50°	14.2
52.5°	9.5
55°	7.9
57.5°	4.7
60°	3.2
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)