

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: P224808

Luminaire Tested: **LD2B05D010 EU2B05FL408050 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL408050 2LBDL\*B  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 741.0 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

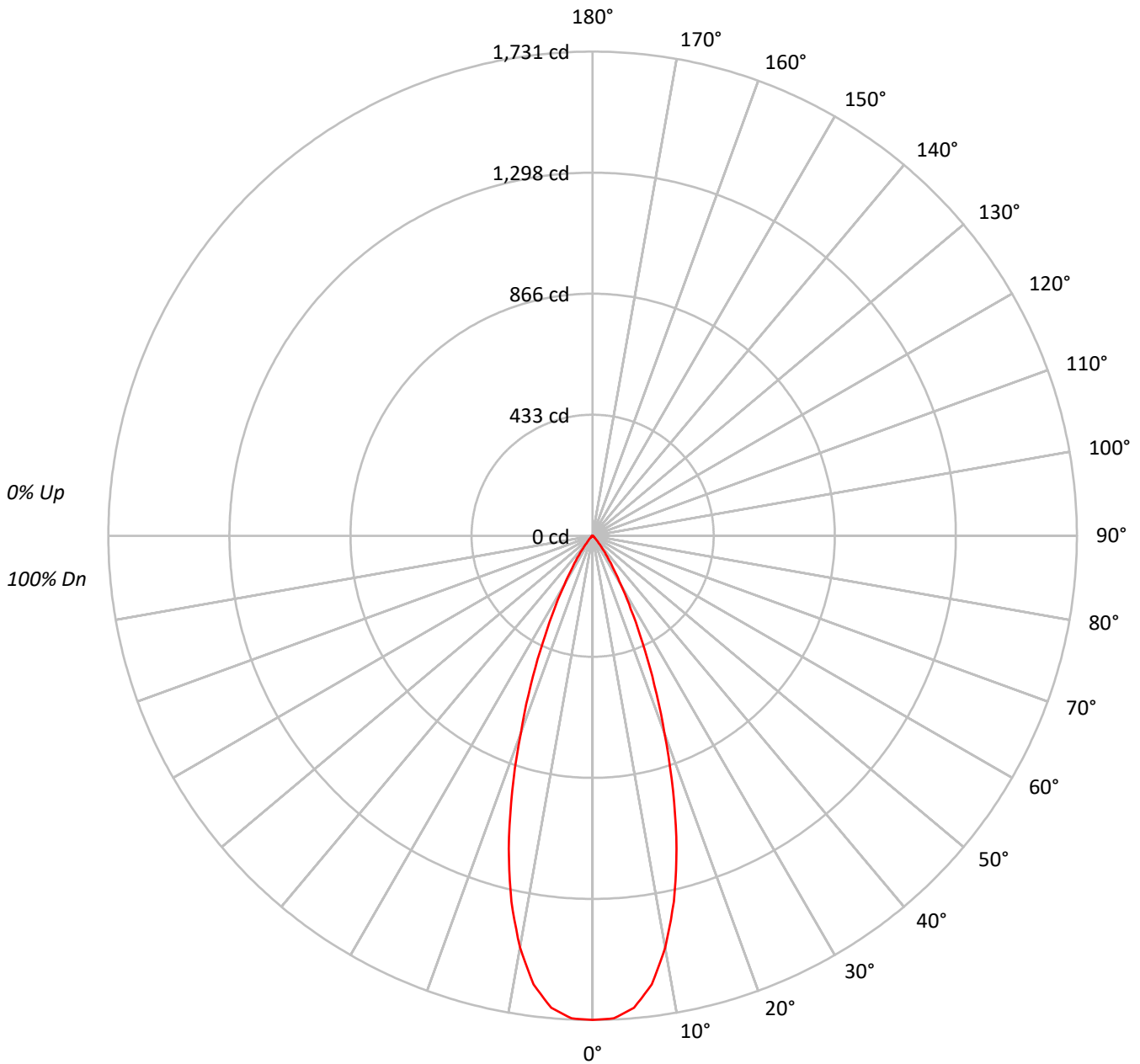
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224808

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDL\*B

### Luminous Intensity Polar Plot





TEST NUMBER: P224808

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDL\*B

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

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

	0°
0°	670457
5°	658787
10°	587701
15°	464530
20°	309731
25°	179717
30°	89946
35°	42321
40°	16535
45°	7395
50°	3495
55°	1958
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224808

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDL\*B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.3	21.0
10°-20°	313.6	42.3
20°-30°	197.2	26.6
30°-40°	60.3	8.1
40°-50°	11.9	1.6
50°-60°	2.7	0.4
60°-70°	0.1	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°	666.1	89.9
0°-40°	726.4	98.0
0°-60°	740.9	100.0
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1731	
5°	1694	155
15°	1158	314
25°	420	197
35°	90	60
45°	14	12
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224808

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDL\*B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1730.9
2.5°	1727.0
5°	1694.3
7.5°	1617.4
10°	1494.2
12.5°	1340.3
15°	1158.4
17.5°	956.4
20°	751.4
22.5°	576.3
25°	420.5
27.5°	296.3
30°	201.1
32.5°	135.7
35°	89.5
37.5°	54.8
40°	32.7
42.5°	21.2
45°	13.5
47.5°	8.7
50°	5.8
52.5°	3.8
55°	2.9
57.5°	1.9
60°	1.0
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
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)