

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: P224622

Luminaire Tested: **LD2B05D010 EU2B05FL409030 2LBDLC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL409030 2LBDLC\*MMS  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 573.0 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

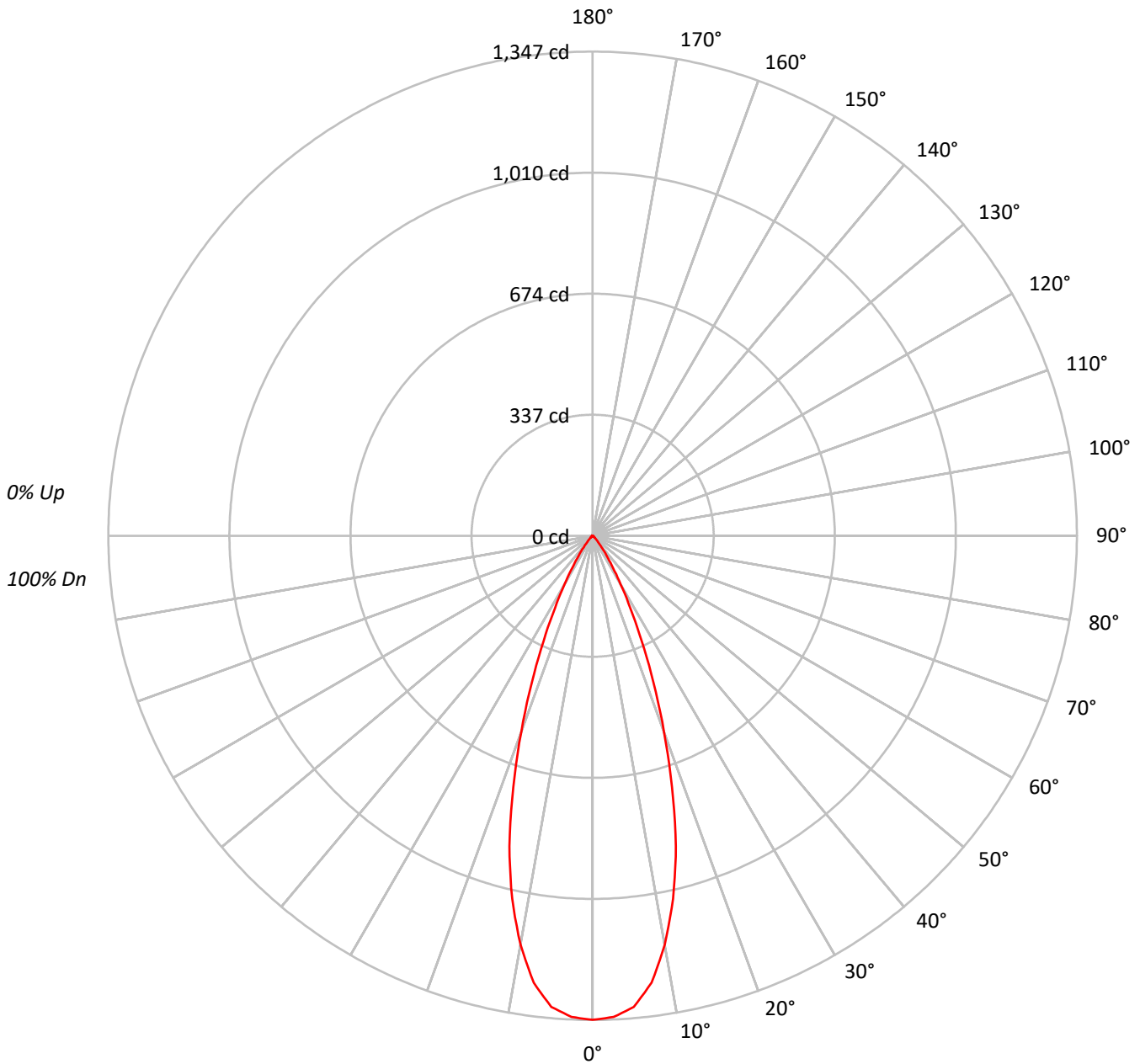
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224622

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDLC\*MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P224622

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDLC\*MMS

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

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

	0°
0°	521600
5°	511578
10°	454404
15°	358623
20°	239161
25°	137662
30°	69729
35°	32675
40°	13400
45°	6026
50°	3073
55°	1958
60°	1162
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224622

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDLC\*MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	21.0
10°-20°	241.7	42.2
20°-30°	151.4	26.4
30°-40°	46.8	8.2
40°-50°	9.7	1.7
50°-60°	2.7	0.5
60°-70°	0.4	0.1
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°	513.4	89.6
0°-40°	560.3	97.8
0°-60°	572.6	99.9
0°-90°	573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1347	
5°	1316	120
15°	894	242
25°	322	151
35°	69	47
45°	11	10
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224622

CATALOG NUMBER: LD2B05D010 EU2B05FL409030 2LBDLC\*MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1346.6
2.5°	1339.9
5°	1315.7
7.5°	1253.9
10°	1155.3
12.5°	1034.0
15°	894.3
17.5°	733.2
20°	580.2
22.5°	441.3
25°	322.1
27.5°	226.5
30°	155.9
32.5°	104.4
35°	69.1
37.5°	43.4
40°	26.5
42.5°	16.9
45°	11.0
47.5°	7.4
50°	5.1
52.5°	3.7
55°	2.9
57.5°	2.2
60°	1.5
62.5°	0.7
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)