

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: P224962

Luminaire Tested: **LD2B05D010 EU2B05FL409040 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL409040 2LBDL\*LI  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 620.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

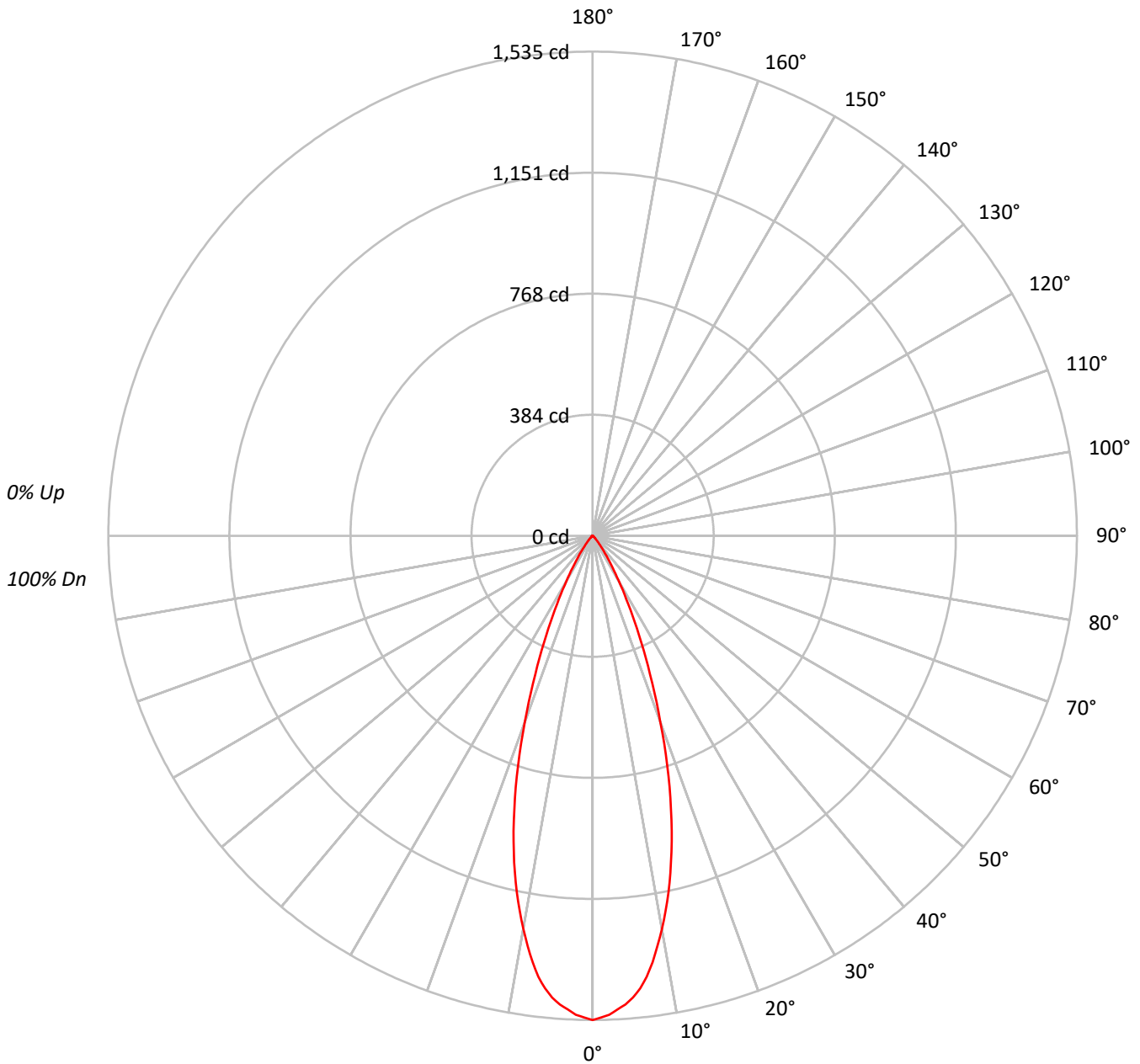
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224962

CATALOG NUMBER: LD2B05D010 EU2B05FL409040 2LBDL\*LI

### Luminous Intensity Polar Plot





TEST NUMBER: P224962

CATALOG NUMBER: LD2B05D010 EU2B05FL409040 2LBDL\*LI

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

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

	0°
0°	594731
5°	571535
10°	497512
15°	388499
20°	258370
25°	147962
30°	73531
35°	33810
40°	13551
45°	6190
50°	2892
55°	1621
60°	930
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224962

CATALOG NUMBER: LD2B05D010 EU2B05FL409040 2LBDL\*LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	21.6
10°-20°	262.7	42.4
20°-30°	162.6	26.2
30°-40°	48.6	7.8
40°-50°	9.7	1.6
50°-60°	2.4	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°	559.1	90.2
0°-40°	607.7	98.0
0°-60°	619.9	100.0
0°-90°	620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1535	
5°	1470	134
15°	969	263
25°	346	163
35°	72	49
45°	11	10
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224962

CATALOG NUMBER: LD2B05D010 EU2B05FL409040 2LBDL\*LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1535.4
1°	1527.1
2°	1519.3
3°	1503.8
4°	1489.5
5°	1469.9
6°	1443.1
7°	1409.1
8°	1365.6
9°	1316.2
10°	1264.9
11°	1211.9
12°	1155.3
13°	1096.3
14°	1033.1
15°	968.8
17.5°	799.0
20°	626.8
22.5°	474.3
25°	346.2
27.5°	243.1
30°	164.4
32.5°	108.4
35°	71.5
37.5°	44.7
40°	26.8
42.5°	17.3
45°	11.3
47.5°	7.1
50°	4.8
52.5°	3.6
55°	2.4
57.5°	1.8
60°	1.2
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



TEST NUMBER: P224962

CATALOG NUMBER: LD2B05D010 EU2B05FL409040 2LBDL\*LI

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)