

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: P#

Luminaire Tested: **LD2B05D010 EU2B0510SP159040 2LBPIN**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14823)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B0510SP159040 2LBPIN  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
ROUND PINHOLE BLACK OCULUS  
Light Source: -  
Ballast/Driver: -

**Summary**

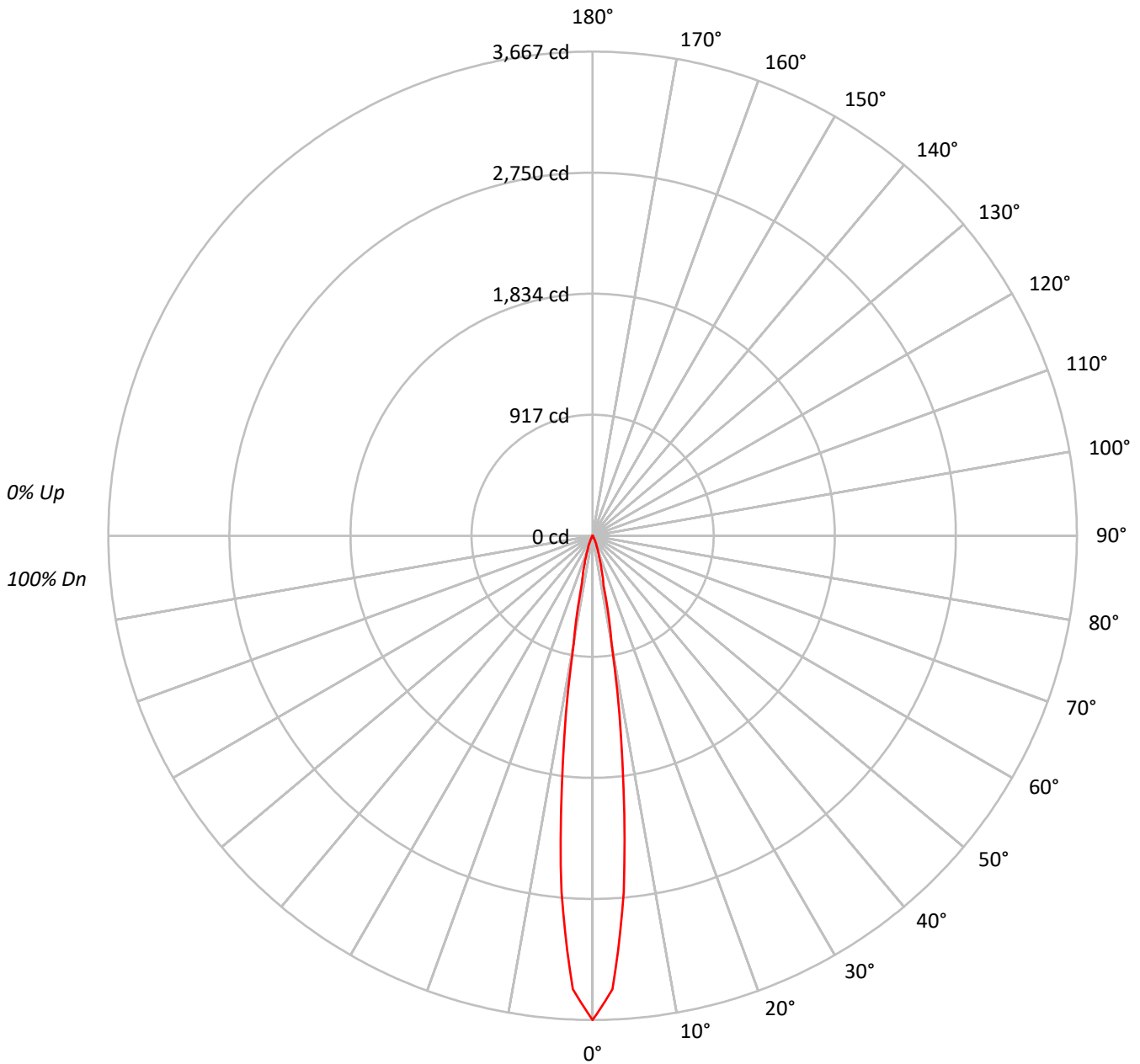
Lumens per Lamp: N/A  
Luminaire Lumens: 309.7 lumens  
Efficiency: N/A  
Efficacy: 42.4 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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: P#  
CATALOG NUMBER: LD2B05D010 EU2B0510SP159040 2LBPIN

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B0510SP159040 2LBPIN

**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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	98	98	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96	96	96	96
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	95	95	95	95
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93	93	93	93
5	105	101	97	95	104	100	97	95	98	96	94	97	95	93	96	94	92	91	91	91	91
6	103	98	95	93	102	98	95	92	97	94	92	95	93	91	94	92	91	90	90	90	90
7	101	96	93	91	101	96	93	91	95	92	90	94	92	90	93	91	89	89	89	89	89
8	100	95	91	89	99	94	91	89	93	91	89	93	90	88	92	90	88	87	87	87	87
9	98	93	90	88	97	93	90	88	92	89	87	91	89	87	91	89	87	86	86	86	86
10	97	92	88	86	96	91	88	86	91	88	86	90	88	86	90	87	86	85	85	85	85

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

	0°
0°	1421025
5°	1053513
10°	327558
15°	104380
20°	45483
25°	20180
30°	7472
35°	3595
40°	2479
45°	1534
50°	844
55°	946
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B0510SP159040 2LBPIN

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	63.2
10°-20°	81.9	26.4
20°-30°	23.4	7.6
30°-40°	5.3	1.7
40°-50°	2.2	0.7
50°-60°	1.0	0.3
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°	301.2	97.2
0°-40°	306.4	98.9
0°-60°	309.7	100.0
0°-90°	309.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	309.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3667	
5°	2708	196
15°	260	82
25°	47	23
35°	8	5
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B0510SP159040 2LBPIN

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3667.3
2.5°	3438.3
5°	2708.5
7.5°	1726.8
10°	832.5
12.5°	387.1
15°	260.2
17.5°	161.6
20°	110.3
22.5°	74.9
25°	47.2
27.5°	27.8
30°	16.7
32.5°	10.4
35°	7.6
37.5°	5.6
40°	4.9
42.5°	3.5
45°	2.8
47.5°	2.1
50°	1.4
52.5°	1.4
55°	1.4
57.5°	0.7
60°	0.7
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)