

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: P223553

Luminaire Tested: **LD2B05D010 EU2B05SP159730 2LBD\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 150)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05SP159730 2LBD\*B  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 316.0 lumens  
Efficiency: N/A  
Efficacy: 43.3 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

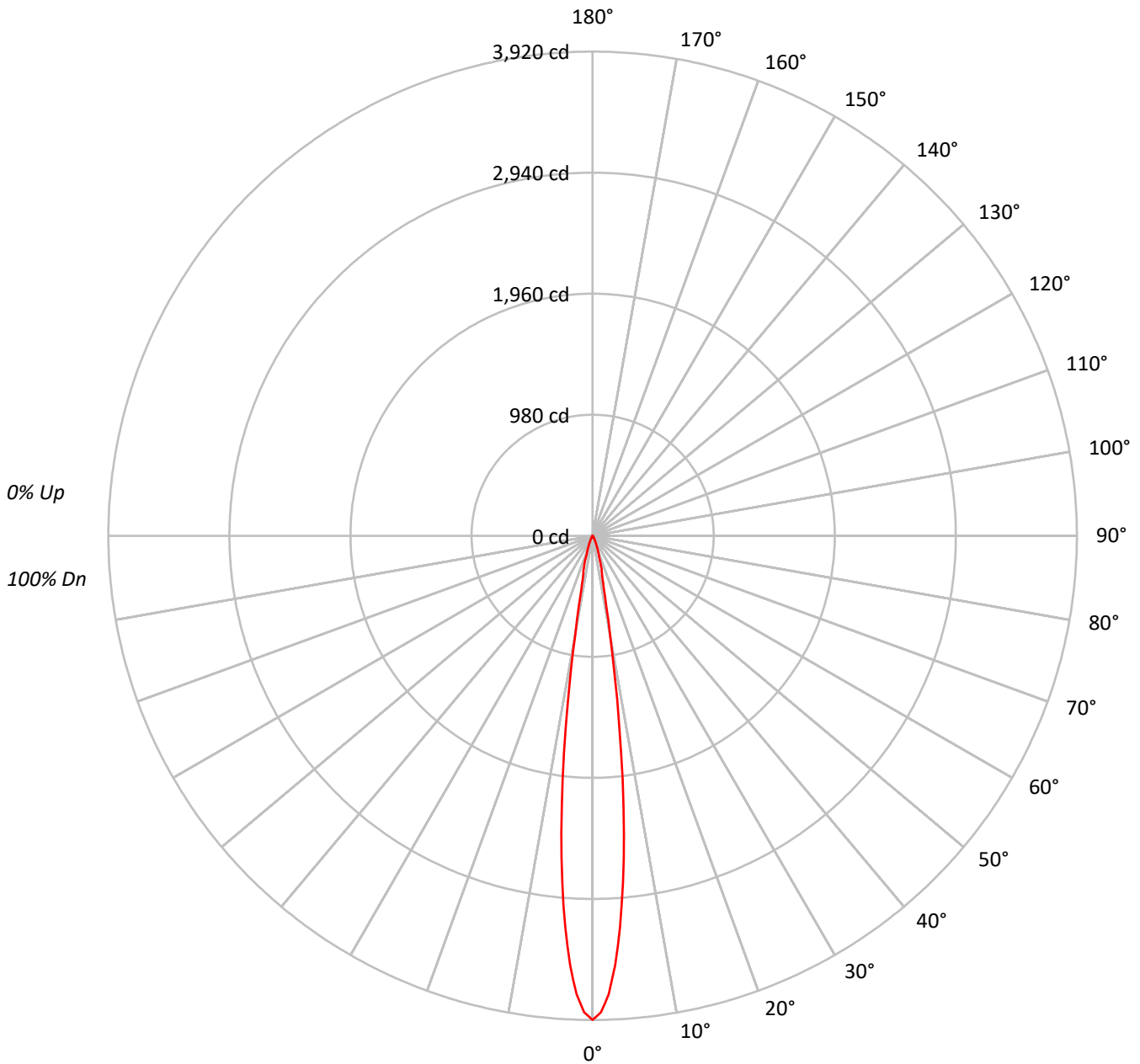
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223553

CATALOG NUMBER: LD2B05D010 EU2B05SP159730 2LBD\*B

### Luminous Intensity Polar Plot





TEST NUMBER: P223553

CATALOG NUMBER: LD2B05D010 EU2B05SP159730 2LBD\*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	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	102	100	98	100	99	97	98	97	96	94	94	94	94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93	93	93	93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91	91	91	91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90	90	90	90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88	88	88	88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87	87	87	87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86	86	86	86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85	85	85	85

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

	0°
0°	1518435
5°	1097694
10°	319574
15°	112122
20°	48022
25°	21583
30°	8364
35°	4161
40°	2781
45°	1808
50°	964
55°	743
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223553

CATALOG NUMBER: LD2B05D010 EU2B05SP159730 2LBD\*B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	63.2
10°-20°	81.3	25.7
20°-30°	24.9	7.9
30°-40°	6.2	1.9
40°-50°	2.6	0.8
50°-60°	1.1	0.3
60°-70°	0.2	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°	306.0	96.8
0°-40°	312.1	98.8
0°-60°	315.8	99.9
0°-90°	316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3920	
5°	2823	200
15°	280	81
25°	50	25
35°	9	6
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223553

CATALOG NUMBER: LD2B05D010 EU2B05SP159730 2LBD\*B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3920.1
1°	3860.2
2°	3714.1
3°	3481.2
4°	3176.9
5°	2823.1
6°	2424.3
7°	1991.4
8°	1552.4
9°	1142.1
10°	812.5
11°	582.3
12°	437.8
13°	356.5
14°	312.0
15°	279.6
17.5°	172.5
20°	116.5
22.5°	78.0
25°	50.5
27.5°	30.8
30°	18.7
32.5°	12.1
35°	8.8
37.5°	7.1
40°	5.5
42.5°	4.4
45°	3.3
47.5°	2.2
50°	1.6
52.5°	1.6
55°	1.1
57.5°	1.1
60°	0.5
62.5°	0.5
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: P223553

CATALOG NUMBER: LD2B05D010 EU2B05SP159730 2LBD\*B

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)