

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: P223748

Luminaire Tested: **LD2B05D010 EU2B05SP159040 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223748  
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 EU2B05SP159040 2LBDSQC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 351.0 lumens  
Efficiency: N/A  
Efficacy: 48.1 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

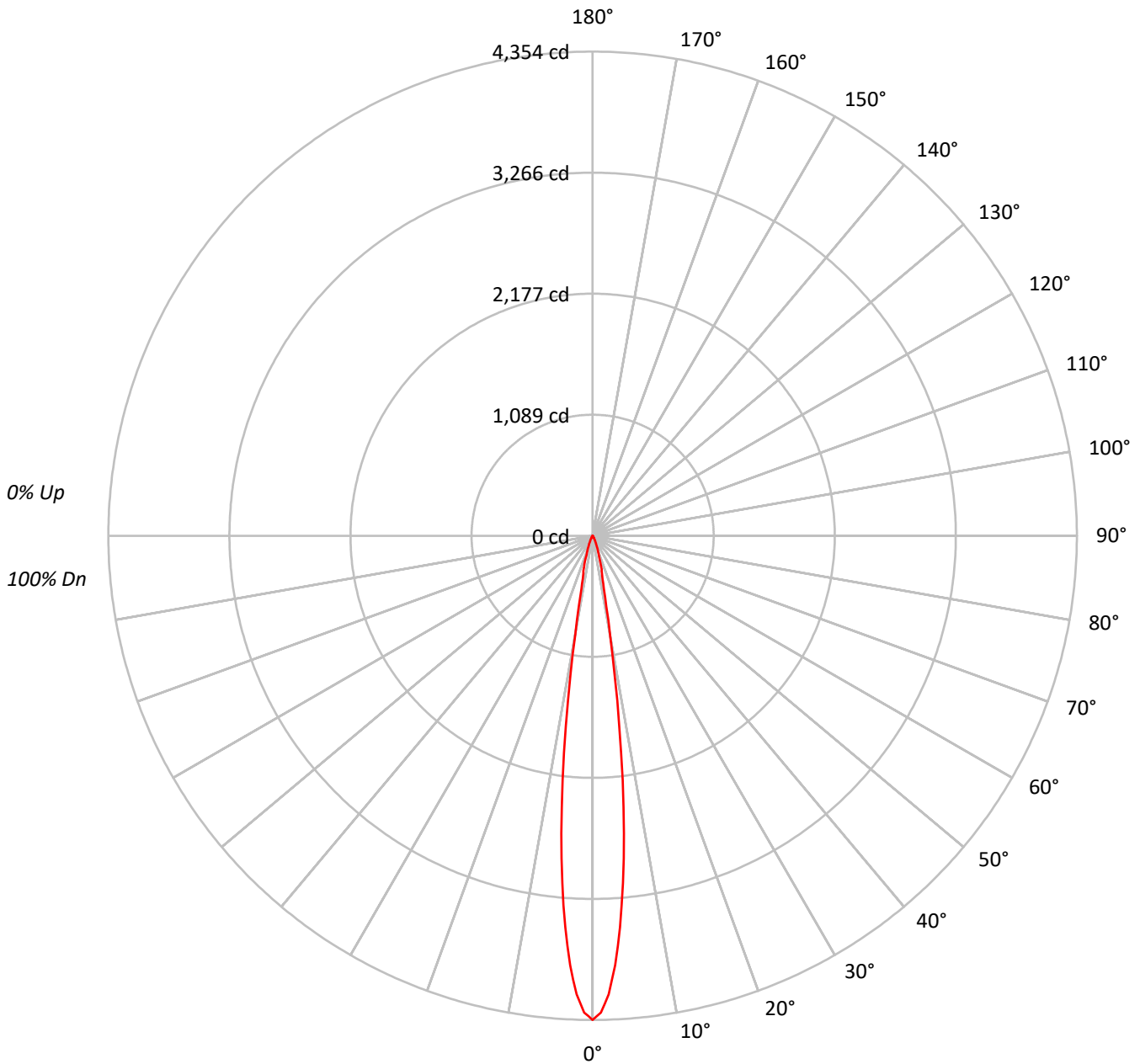
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223748

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDSQC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P223748

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDSQC\*MB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98				98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96				96
3	110	106	103	101	108	105	102	100	102	100	98	100	99	97	98	97	96	94				94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93				93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	96	94	92	91				91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90				90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88				88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	90	88	87				87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86				86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85				85

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

	0°
0°	1686621
5°	1219279
10°	354973
15°	124554
20°	53339
25°	23977
30°	9258
35°	4634
40°	3084
45°	2027
50°	1085
55°	810
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223748

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDSQC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.9	63.2
10°-20°	90.3	25.7
20°-30°	27.7	7.9
30°-40°	6.8	1.9
40°-50°	2.8	0.8
50°-60°	1.2	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°	339.9	96.8
0°-40°	346.7	98.8
0°-60°	350.7	99.9
0°-90°	351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	351.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4354	
5°	3136	222
15°	311	90
25°	56	28
35°	10	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223748

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDSQC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4354.3
1°	4287.8
2°	4125.5
3°	3866.8
4°	3528.7
5°	3135.8
6°	2692.8
7°	2211.9
8°	1724.4
9°	1268.6
10°	902.5
11°	646.8
12°	486.3
13°	396.0
14°	346.6
15°	310.6
17.5°	191.6
20°	129.4
22.5°	86.6
25°	56.1
27.5°	34.2
30°	20.7
32.5°	13.4
35°	9.8
37.5°	7.9
40°	6.1
42.5°	4.9
45°	3.7
47.5°	2.4
50°	1.8
52.5°	1.8
55°	1.2
57.5°	1.2
60°	0.6
62.5°	0.6
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: P223748

CATALOG NUMBER: LD2B05D010 EU2B05SP159040 2LBDSQC\*MB

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)