

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: P224096

Luminaire Tested: **LD2B05D010 EU2B05SP158040 2LBD\**MW***

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224096  
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 EU2B05SP158040 2LBD\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
SPUN ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 449.0 lumens  
Efficiency: N/A  
Efficacy: 61.5 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

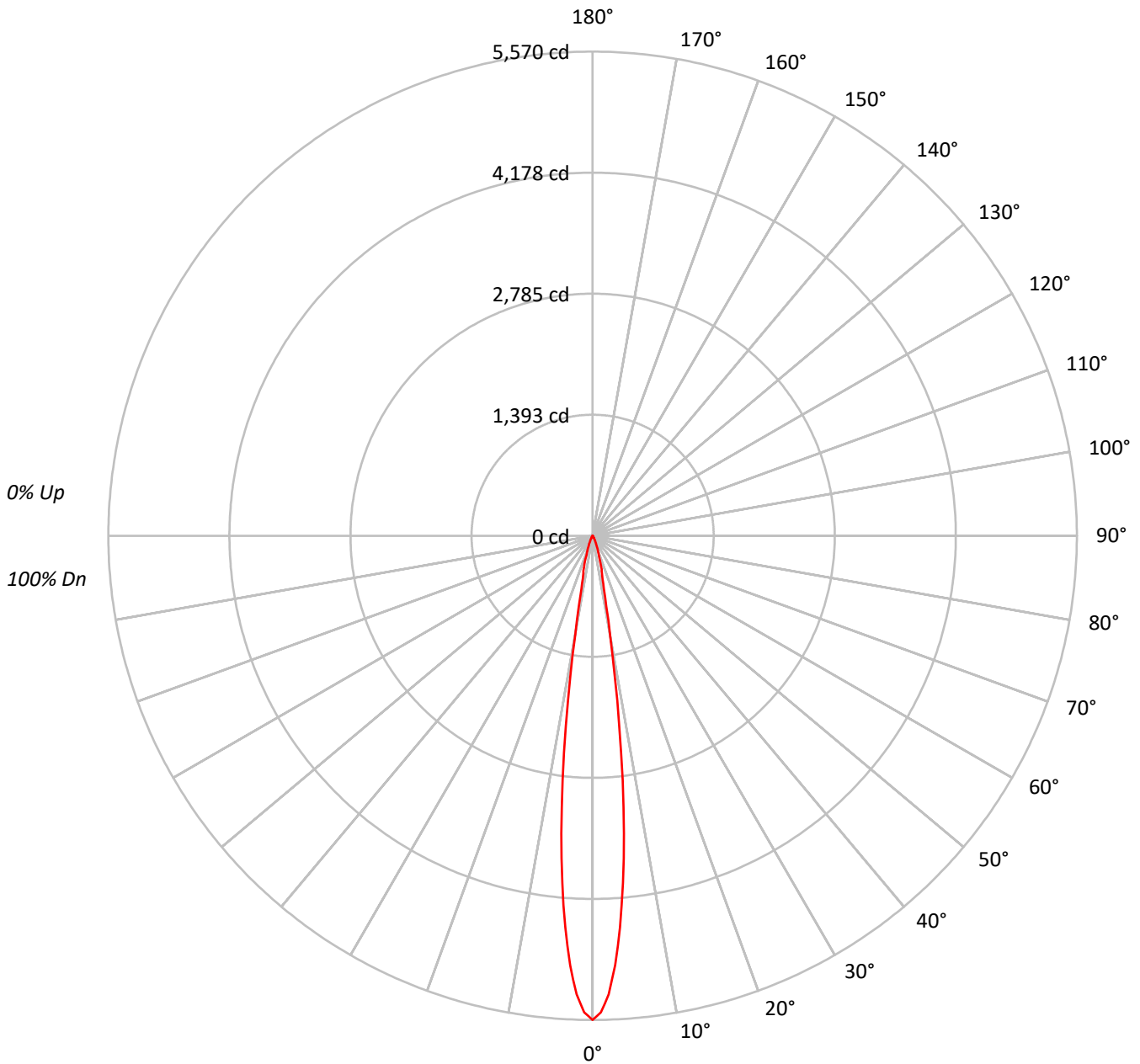
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224096

CATALOG NUMBER: LD2B05D010 EU2B05SP158040 2LBD\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P224096

CATALOG NUMBER: LD2B05D010 EU2B05SP158040 2LBD\*MW

**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	98	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	95	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°	2157556
5°	1559696
10°	454050
15°	159321
20°	68220
25°	30687
30°	11853
35°	5911
40°	3944
45°	2575
50°	1386
55°	1081
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224096

CATALOG NUMBER: LD2B05D010 EU2B05SP158040 2LBD\*MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.9	63.2
10°-20°	115.5	25.7
20°-30°	35.4	7.9
30°-40°	8.7	1.9
40°-50°	3.6	0.8
50°-60°	1.6	0.3
60°-70°	0.3	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°	434.8	96.8
0°-40°	443.5	98.8
0°-60°	448.7	99.9
0°-90°	449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5570	
5°	4011	284
15°	397	115
25°	72	35
35°	12	9
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224096

CATALOG NUMBER: LD2B05D010 EU2B05SP158040 2LBD\*MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5570.1
1°	5485.0
2°	5277.3
3°	4946.4
4°	4514.0
5°	4011.3
6°	3444.6
7°	2829.5
8°	2205.9
9°	1622.8
10°	1154.4
11°	827.4
12°	622.1
13°	506.6
14°	443.4
15°	397.3
17.5°	245.1
20°	165.5
22.5°	110.8
25°	71.8
27.5°	43.7
30°	26.5
32.5°	17.2
35°	12.5
37.5°	10.1
40°	7.8
42.5°	6.2
45°	4.7
47.5°	3.1
50°	2.3
52.5°	2.3
55°	1.6
57.5°	1.6
60°	0.8
62.5°	0.8
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: P224096

CATALOG NUMBER: LD2B05D010 EU2B05SP158040 2LBD\*MW

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)