

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: P224040

Luminaire Tested: **LD2B05D010 EU2B05SP158050 2LBDC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224040  
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 EU2B05SP158050 2LBDC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 468.0 lumens  
Efficiency: N/A  
Efficacy: 64.1 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

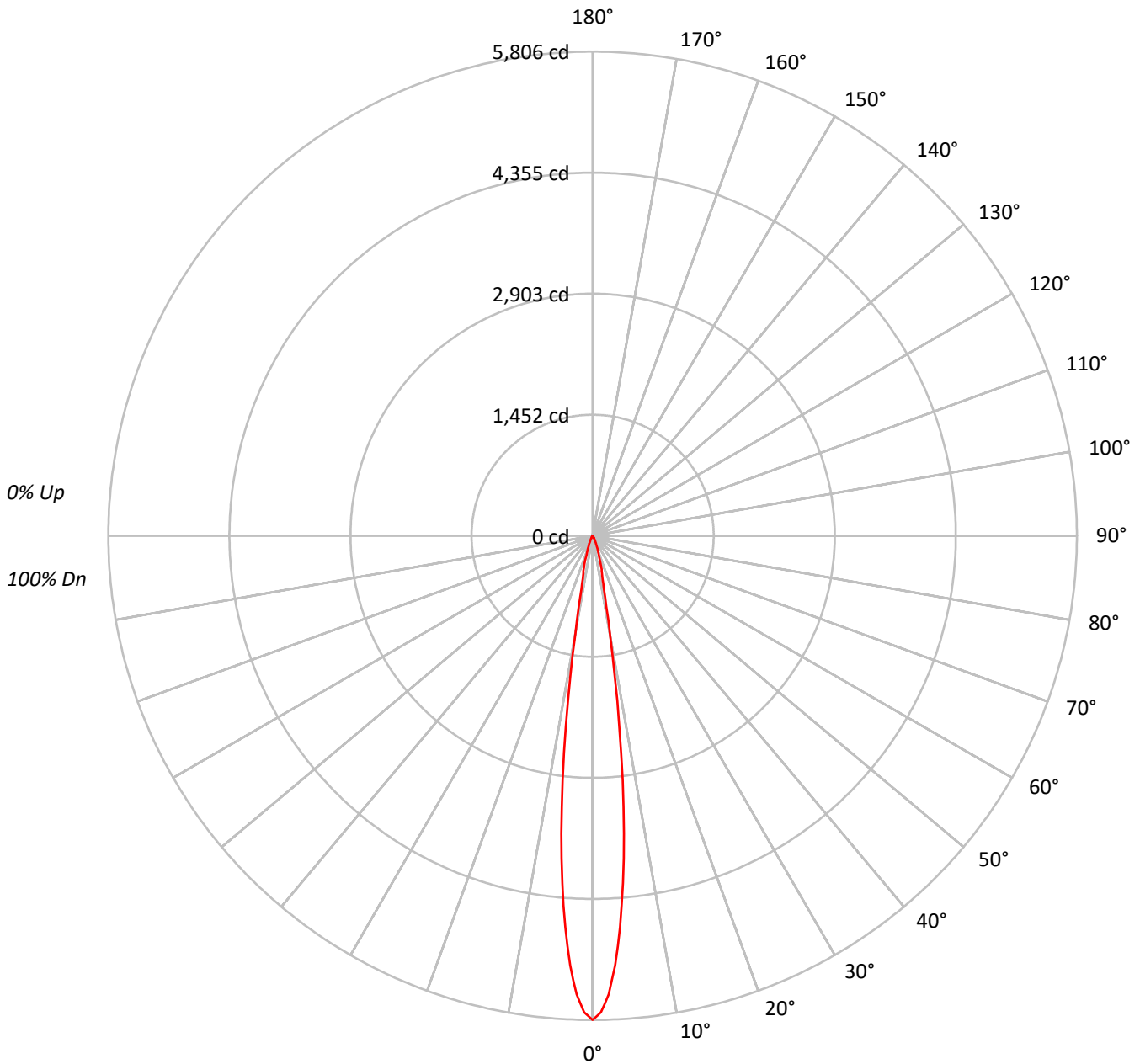
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224040

CATALOG NUMBER: LD2B05D010 EU2B05SP158050 2LBDC\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P224040

CATALOG NUMBER: LD2B05D010 EU2B05SP158050 2LBDC\*MW

**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	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°	2248853
5°	1625680
10°	473284
15°	166058
20°	71105
25°	32011
30°	12389
35°	6147
40°	4096
45°	2684
50°	1446
55°	1081
60°	620
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P224040

CATALOG NUMBER: LD2B05D010 EU2B05SP158050 2LBDC\*MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.9	63.2
10°-20°	120.4	25.7
20°-30°	37.0	7.9
30°-40°	9.1	1.9
40°-50°	3.8	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°	453.2	96.8
0°-40°	462.3	98.8
0°-60°	467.7	99.9
0°-90°	468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5806	
5°	4181	296
15°	414	120
25°	75	37
35°	13	9
45°	5	4
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P224040

CATALOG NUMBER: LD2B05D010 EU2B05SP158050 2LBDC\*MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5805.8
1°	5717.1
2°	5500.7
3°	5155.7
4°	4705.0
5°	4181.0
6°	3590.4
7°	2949.3
8°	2299.2
9°	1691.4
10°	1203.3
11°	862.4
12°	648.4
13°	528.0
14°	462.1
15°	414.1
17.5°	255.5
20°	172.5
22.5°	115.5
25°	74.9
27.5°	45.6
30°	27.7
32.5°	17.9
35°	13.0
37.5°	10.6
40°	8.1
42.5°	6.5
45°	4.9
47.5°	3.3
50°	2.4
52.5°	2.4
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: P224040

CATALOG NUMBER: LD2B05D010 EU2B05SP158050 2LBDC\*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)