

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 EU2B05WFL559027 2LBDC\*MW**

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 (P14810)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05WFL559027 2LBDC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

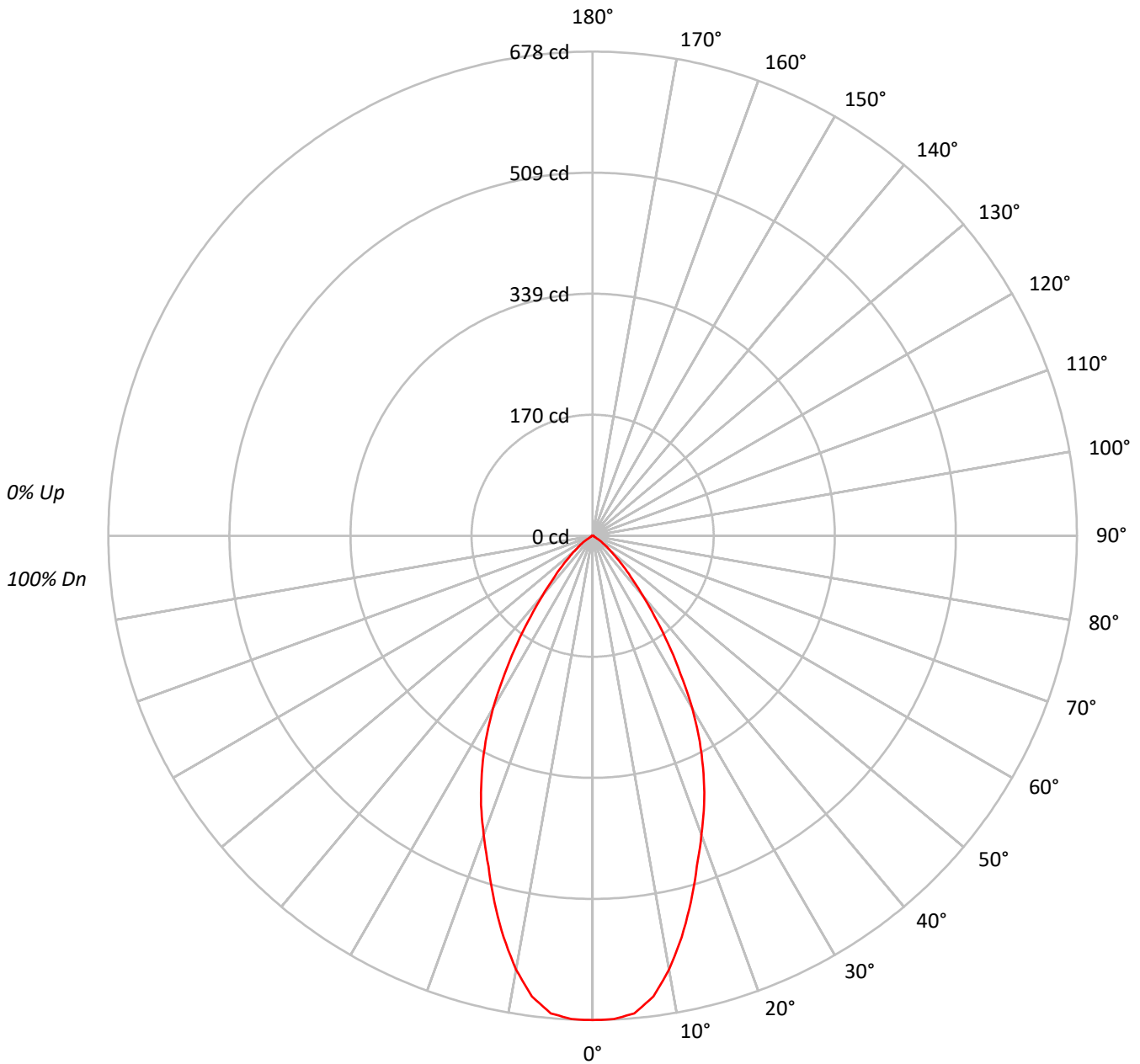
Lumens per Lamp: N/A  
Luminaire Lumens: 560.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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 EU2B05WFL559027 2LBDC\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B05WFL559027 2LBDC\*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			
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56			
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49			

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

	0°
0°	262698
5°	261019
10°	242640
15°	213017
20°	183637
25°	157023
30°	124609
35°	86865
40°	54964
45°	33525
50°	19826
55°	10873
60°	2402
65°	2108
70°	1699
75°	2245
80°	1785
85°	3555



TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B05WFL559027 2LBDC\*MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	11.1
10°-20°	147.9	26.4
20°-30°	166.9	29.8
30°-40°	115.5	20.6
40°-50°	49.2	8.8
50°-60°	14.2	2.5
60°-70°	2.1	0.4
70°-80°	1.3	0.2
80°-90°	0.5	0.1
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°	377.2	67.3
0°-40°	492.6	88.0
0°-60°	556.1	99.3
0°-90°	560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	678	
5°	671	62
15°	531	148
25°	367	167
35°	184	115
45°	61	49
55°	16	14
65°	2	2
75°	2	1
85°	1	1
90°	0	



TEST NUMBER: P#

CATALOG NUMBER: LD2B05D010 EU2B05WFL559027 2LBDC\*MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	678.2
2.5°	677.4
5°	671.3
7.5°	650.6
10°	616.9
12.5°	575.6
15°	531.2
17.5°	485.3
20°	445.5
22.5°	408.0
25°	367.4
27.5°	324.5
30°	278.6
32.5°	228.9
35°	183.7
37.5°	142.4
40°	108.7
42.5°	81.9
45°	61.2
47.5°	44.4
50°	32.9
52.5°	23.7
55°	16.1
57.5°	6.9
60°	3.1
62.5°	2.3
65°	2.3
67.5°	1.5
70°	1.5
72.5°	1.5
75°	1.5
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)