

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 EU2B05FL409027 2LBD\*LI**

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 (P29152)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL409027 2LBD\*LI  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

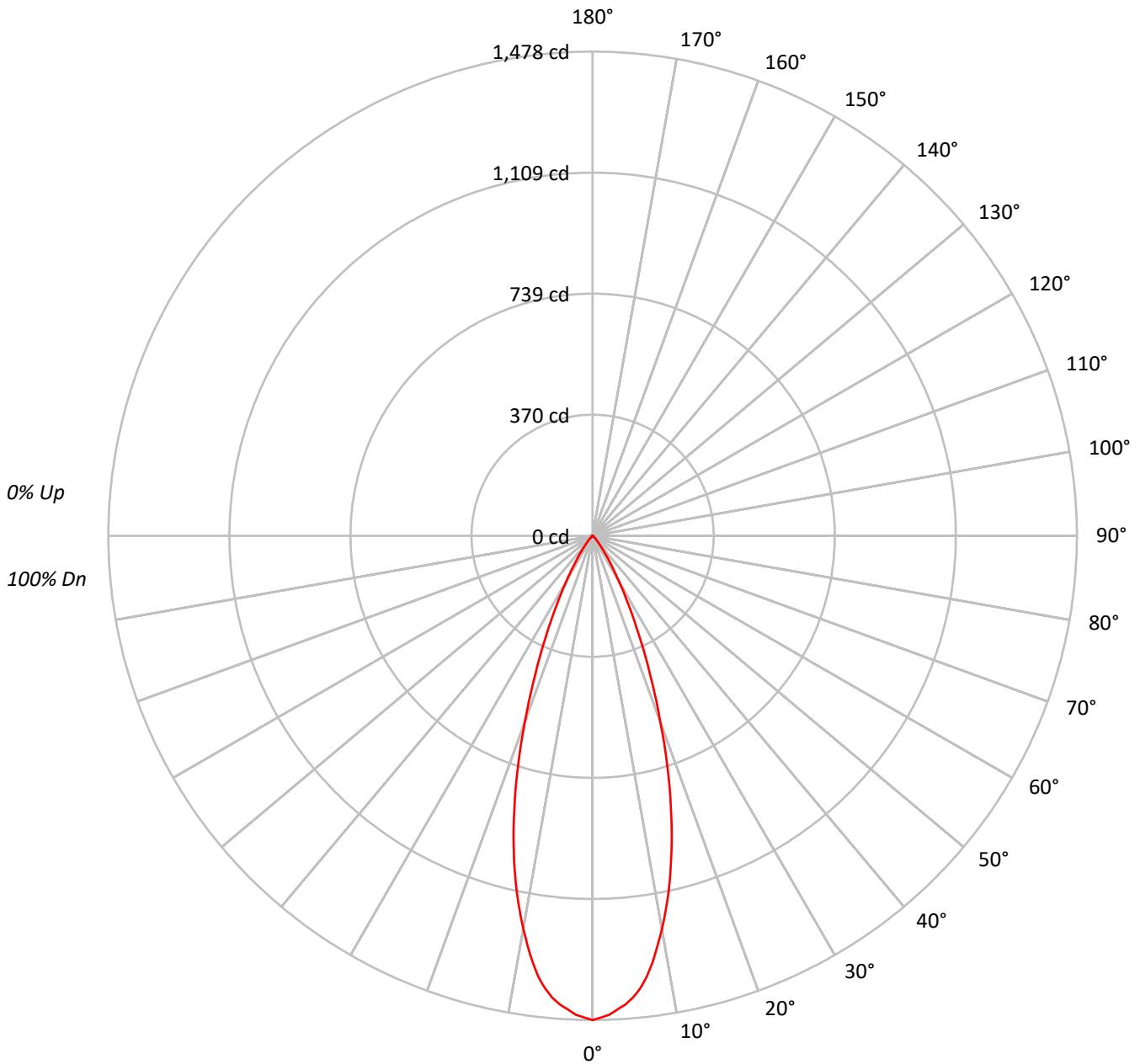
Lumens per Lamp: N/A  
Luminaire Lumens: 597.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83			
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79			
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76			
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73			
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70			
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67			
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65			

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

	0°
0°	572691
5°	550344
10°	479065
15°	374102
20°	248766
25°	142449
30°	70803
35°	32533
40°	13046
45°	5971
50°	2772
55°	1553
60°	852
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	21.6
10°-20°	253.0	42.4
20°-30°	156.5	26.2
30°-40°	46.8	7.8
40°-50°	9.4	1.6
50°-60°	2.3	0.4
60°-70°	0.1	0.0
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°	538.3	90.2
0°-40°	585.2	98.0
0°-60°	596.8	100.0
0°-90°	597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1478	
5°	1415	129
15°	933	253
25°	333	157
35°	69	47
45°	11	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1478.5
1°	1470.4
2°	1463.0
3°	1448.1
4°	1434.3
5°	1415.4
6°	1389.5
7°	1356.8
8°	1315.0
9°	1267.3
10°	1218.0
11°	1166.9
12°	1112.4
13°	1055.6
14°	994.8
15°	932.9
17.5°	769.4
20°	603.5
22.5°	456.7
25°	333.3
27.5°	234.1
30°	158.3
32.5°	104.4
35°	68.8
37.5°	43.0
40°	25.8
42.5°	16.6
45°	10.9
47.5°	6.9
50°	4.6
52.5°	3.4
55°	2.3
57.5°	1.7
60°	1.1
62.5°	0.0
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



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)