

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 EU2B0510NFL259040 2LBPIN**

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 (P14816)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B0510NFL259040 2LBPIN  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
ROUND PINHOLE BLACK OCULUS  
Light Source: -  
Ballast/Driver: -

**Summary**

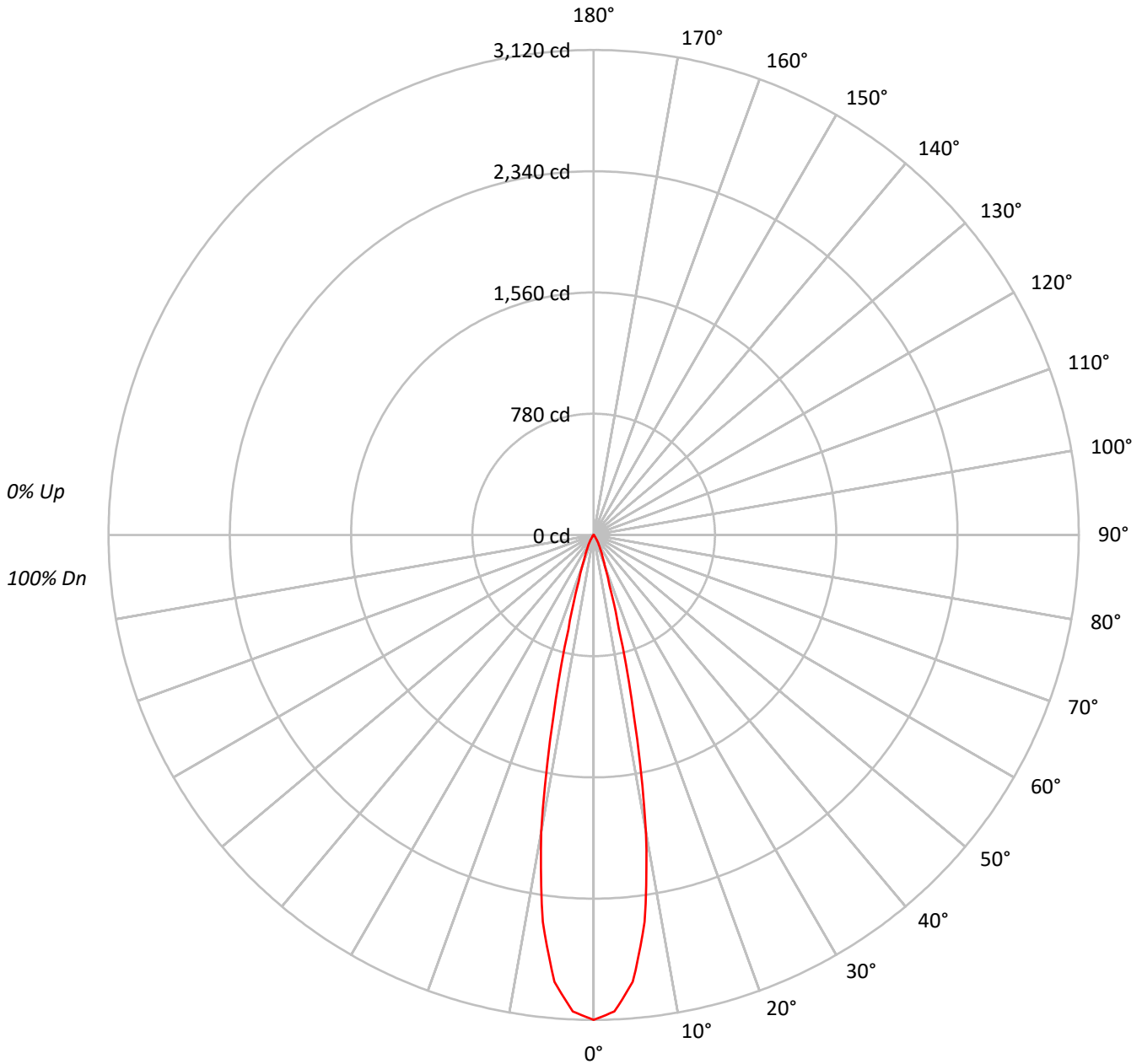
Lumens per Lamp: N/A  
Luminaire Lumens: 514.9 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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	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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97	97	96	95	95	93	92	90	88	86	85	83	81																								
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	95	94	93	92	90	89	88	86	85	83	81																											
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93	92	90	89	88	86	85	83	81																												
4	106	101	98	95	105	100	97	95	98	96	94	97	94	93	95	93	92	90	89	88	86	85	83	81																														
5	104	98	95	92	102	98	94	92	96	93	91	95	92	90	93	91	89	88	86	85	83	81																																
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86	85	83	81																																	
7	99	93	89	87	98	93	89	87	92	88	86	91	88	86	90	87	85	85	83	81																																		
8	97	91	87	85	96	90	87	85	90	86	84	89	86	84	88	85	84	83	81																																			
9	95	89	85	83	94	88	85	83	88	85	82	87	84	82	86	84	82	81																																				
10	93	87	83	81	92	87	83	81	86	83	81	85	83	81	85	82	80	80																																				

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

	0°
0°	1209032
5°	1122749
10°	763122
15°	252446
20°	85770
25°	43438
30°	22416
35°	7379
40°	2731
45°	1480
50°	422
55°	473
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.2	47.6
10°-20°	204.9	39.8
20°-30°	49.6	9.6
30°-40°	12.8	2.5
40°-50°	2.1	0.4
50°-60°	0.4	0.1
60°-70°	0.0	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°	499.6	97.0
0°-40°	512.4	99.5
0°-60°	514.9	100.0
0°-90°	514.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3120	
5°	2886	245
15°	629	205
25°	102	50
35°	16	13
45°	3	2
55°	1	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3120.2
2.5°	3068.1
5°	2886.5
7.5°	2510.5
10°	1939.5
12.5°	1199.7
15°	629.3
17.5°	340.1
20°	208.0
22.5°	143.6
25°	101.6
27.5°	71.8
30°	50.1
32.5°	35.2
35°	15.6
37.5°	6.8
40°	5.4
42.5°	4.1
45°	2.7
47.5°	1.4
50°	0.7
52.5°	0.7
55°	0.7
57.5°	0.0
60°	0.0
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)