

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: P264121

Luminaire Tested: **LD2B05D010 EU2B0510SP158050 2LBD\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-787-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B0510SP158050 2LBD\*H  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 720.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

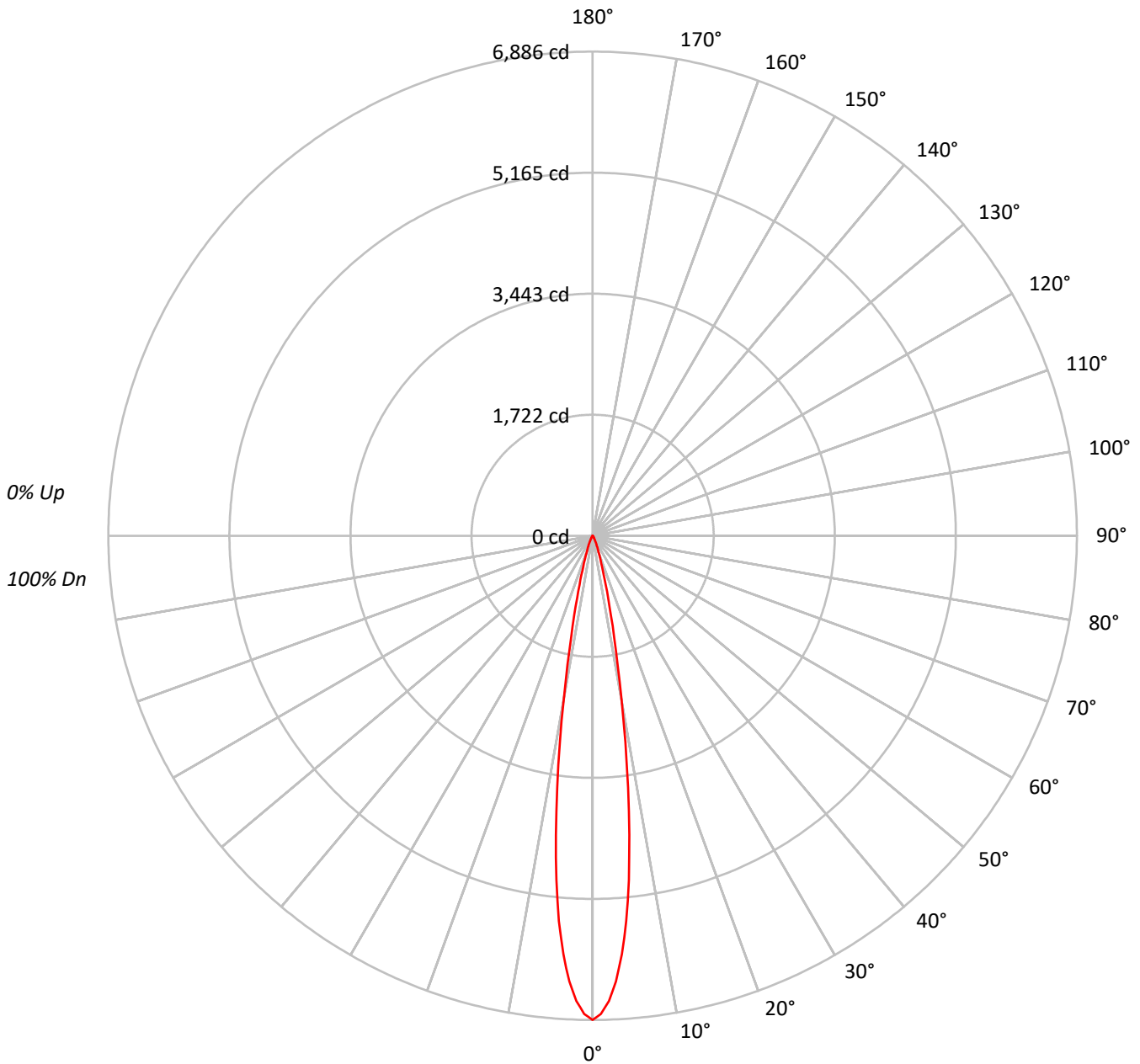
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98	97	96	95	94	93	92													
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	95	94	93	92	91	90													
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94	93	92	91	90	89	88													
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90	89	88	87	86													
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	89	88	87	86	85	84													
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	88	87	86	85	84	83													
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	86	85	84	83	82	81													
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	85	84	83	82	81	80													
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	84	83	82	81	80	79	78													
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83	82	81	80	79	78	77													

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

	0°
0°	3397388
5°	2723162
10°	1188558
15°	368313
20°	128421
25°	56723
30°	25693
35°	13371
40°	7600
45°	3628
50°	2303
55°	1290
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.6	58.0
10°-20°	228.7	31.8
20°-30°	52.1	7.2
30°-40°	15.0	2.1
40°-50°	4.6	0.6
50°-60°	1.4	0.2
60°-70°	0.6	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°	698.4	97.0
0°-40°	713.4	99.1
0°-60°	719.4	99.9
0°-90°	720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6886	
5°	5499	418
15°	721	229
25°	104	52
35°	22	15
45°	5	5
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6886.2
1°	6800.5
2°	6622.4
3°	6346.1
4°	5966.3
5°	5498.6
6°	4925.3
7°	4284.7
8°	3616.0
9°	2968.8
10°	2372.5
11°	1867.9
12°	1470.3
13°	1157.1
14°	914.0
15°	721.1
16°	568.9
17°	452.9
18°	364.3
19°	296.3
20°	244.6
22.5°	158.1
25°	104.2
26°	87.9
27°	74.6
28°	62.8
29°	52.5
30°	45.1
32.5°	31.0
35°	22.2
37.5°	16.3
40°	11.8
42.5°	8.1
45°	5.2
47.5°	3.7
50°	3.0
52.5°	2.2
55°	1.5
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
67.5°	0.7



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**CANDELA DISTRIBUTION (continued):**

	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°







70°		0.0
72.5°		0.0



(END OF REPORT)