

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: P264489

Luminaire Tested: **LD2B05D010 EU2B0510SP159727 2LBD\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264489  
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 EU2B0510SP159727 2LBD\*WMH  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 479.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 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

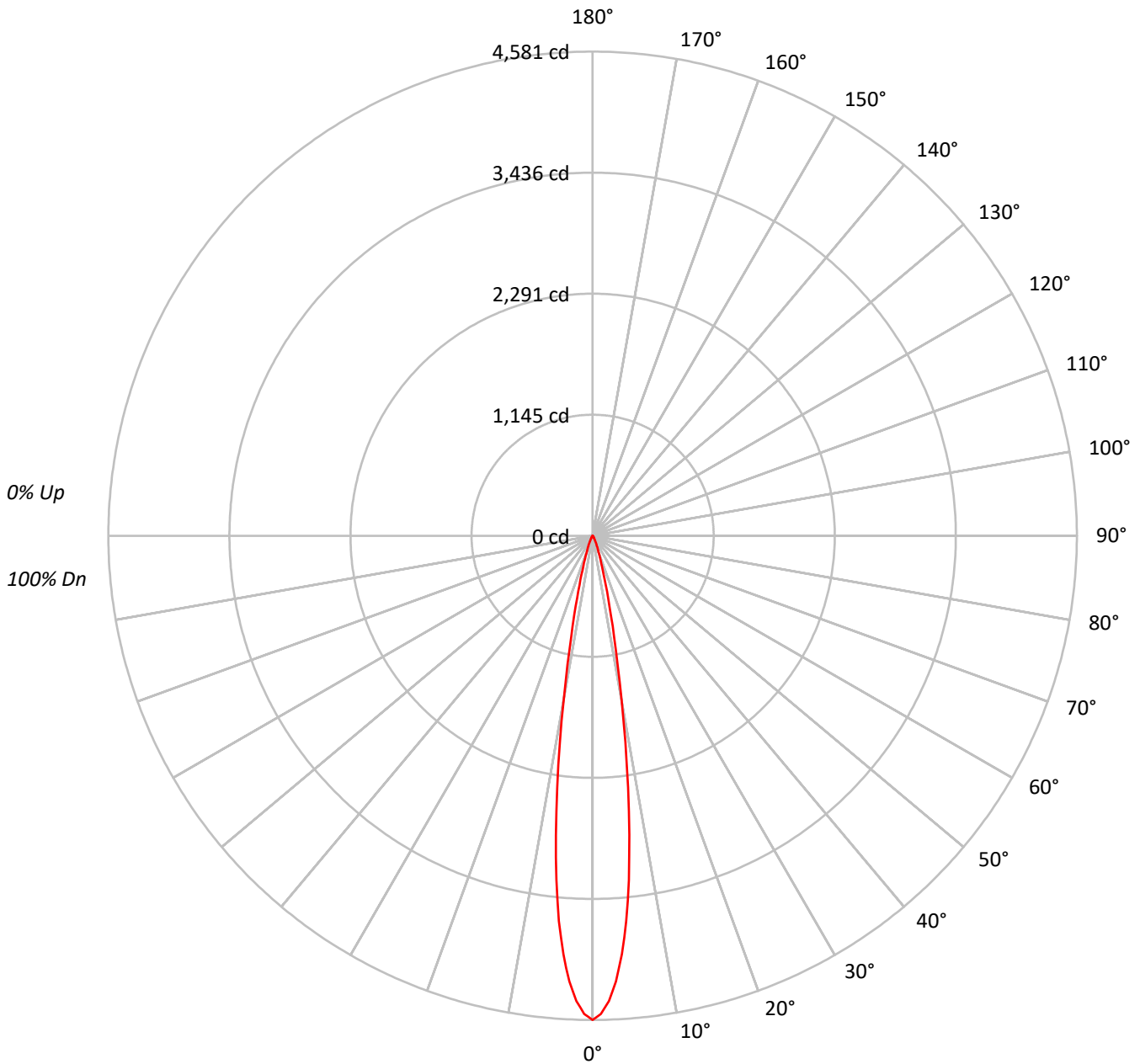
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	2260238
5°	1811661
10°	790735
15°	245065
20°	85422
25°	37724
30°	17091
35°	8854
40°	5088
45°	2372
50°	1535
55°	860
60°	493
65°	584
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	58.0
10°-20°	152.1	31.8
20°-30°	34.7	7.2
30°-40°	10.0	2.1
40°-50°	3.1	0.6
50°-60°	0.9	0.2
60°-70°	0.4	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°	464.6	97.0
0°-40°	474.6	99.1
0°-60°	478.6	99.9
0°-90°	479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4581	
5°	3658	278
15°	480	152
25°	69	35
35°	15	10
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4581.3
1°	4524.2
2°	4405.8
3°	4221.9
4°	3969.3
5°	3658.1
6°	3276.7
7°	2850.5
8°	2405.6
9°	1975.1
10°	1578.4
11°	1242.6
12°	978.2
13°	769.8
14°	608.0
15°	479.8
16°	378.5
17°	301.3
18°	242.3
19°	197.1
20°	162.7
22.5°	105.2
25°	69.3
26°	58.5
27°	49.6
28°	41.8
29°	34.9
30°	30.0
32.5°	20.6
35°	14.7
37.5°	10.8
40°	7.9
42.5°	5.4
45°	3.4
47.5°	2.5
50°	2.0
52.5°	1.5
55°	1.0
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.5
67.5°	0.5



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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)