

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: P263923

Luminaire Tested: **LD2B05D010 EU2B0510SP158027 2LBSQC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P263923  
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 EU2B0510SP158027 2LBSQC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 642.0 lumens  
Efficiency: N/A  
Efficacy: 88.0 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

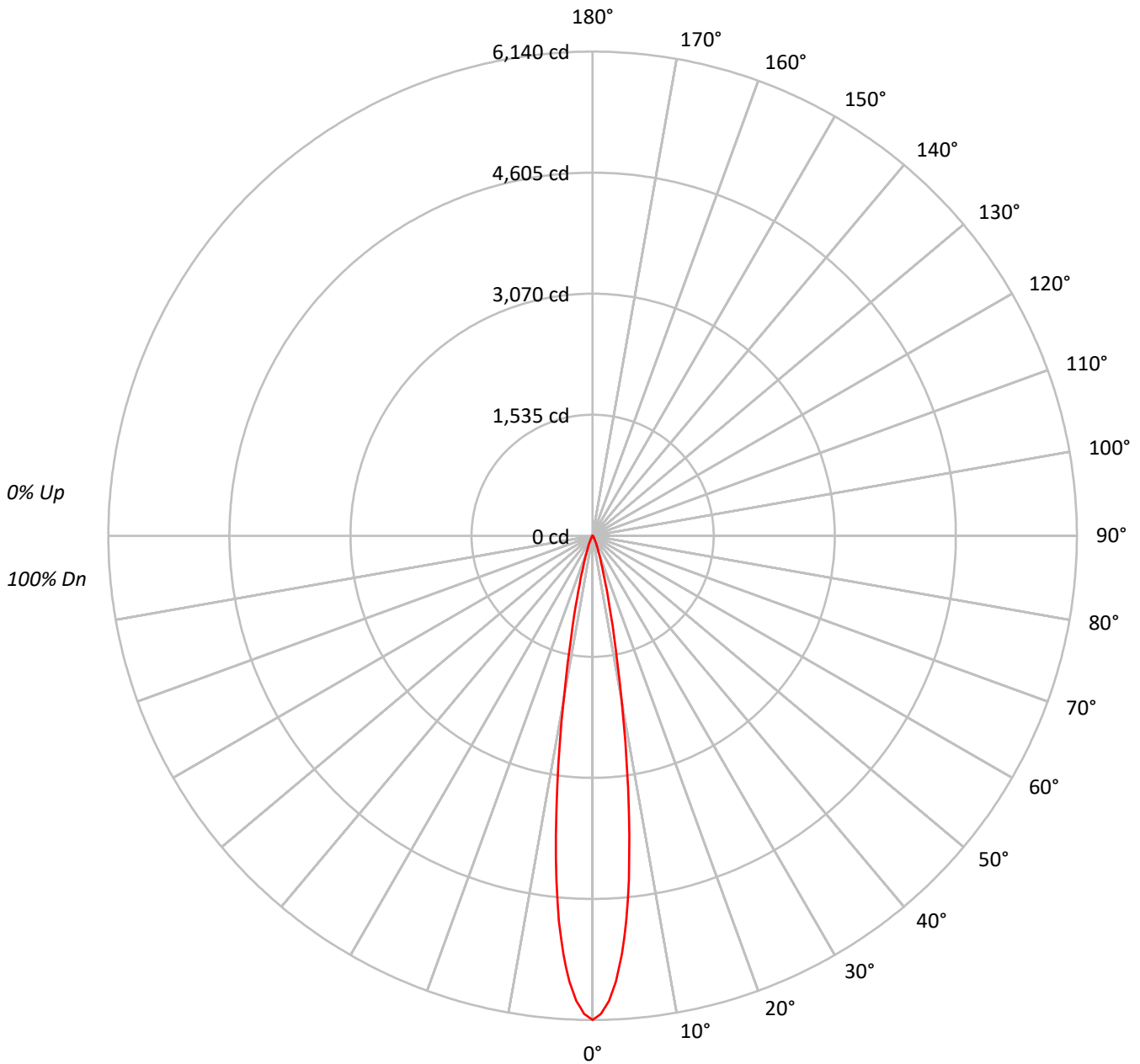
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

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

	0°
0°	3029340
5°	2428143
10°	1059808
15°	328422
20°	114508
25°	50571
30°	22901
35°	11925
40°	6762
45°	3210
50°	1996
55°	1118
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.3	58.0
10°-20°	203.9	31.8
20°-30°	46.5	7.2
30°-40°	13.4	2.1
40°-50°	4.1	0.6
50°-60°	1.2	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°	622.7	97.0
0°-40°	636.1	99.1
0°-60°	641.4	99.9
0°-90°	642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6140	
5°	4903	372
15°	643	204
25°	93	46
35°	20	13
45°	5	4
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6140.2
1°	6063.8
2°	5905.0
3°	5658.6
4°	5320.0
5°	4902.9
6°	4391.7
7°	3820.5
8°	3224.3
9°	2647.1
10°	2115.5
11°	1665.5
12°	1311.1
13°	1031.7
14°	815.0
15°	643.0
16°	507.3
17°	403.9
18°	324.8
19°	264.2
20°	218.1
22.5°	141.0
25°	92.9
26°	78.4
27°	66.5
28°	56.0
29°	46.8
30°	40.2
32.5°	27.7
35°	19.8
37.5°	14.5
40°	10.5
42.5°	7.2
45°	4.6
47.5°	3.3
50°	2.6
52.5°	2.0
55°	1.3
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)