

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: P278028

Luminaire Tested: **LDA2B109030D010 EU2B10SP159030 2LBAD1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P278028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B109030D010 EU2B10SP159030 2LBAD1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl, Self-Flanged, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 872.7 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

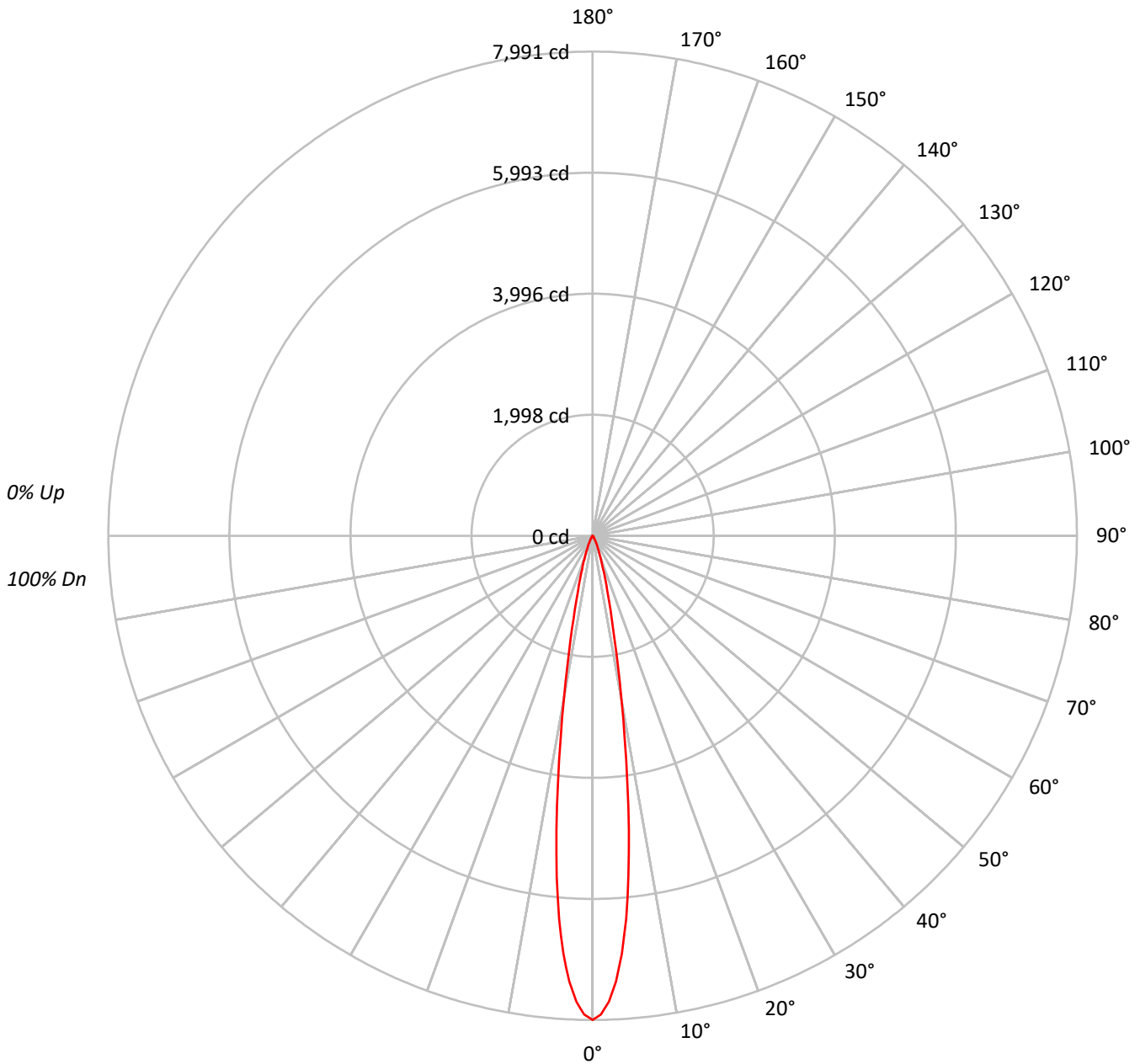
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									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	116	114	112	110	113	112	110	109	108	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86															
2	112	109	107	104	110	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84															
3	109	105	102	100	108	104	101	99	102	99	98	100	98	96	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82															
4	107	102	99	96	105	101	98	96	99	97	95	98	95	94	96	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80															
5	104	99	96	93	103	99	95	93	97	94	92	96	93	91	94	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78															
6	102	97	93	91	101	96	93	91	95	92	90	94	91	89	93	91	89	88	87	86	85	84	83	82	81	80	79	78	77	76															
7	100	95	91	89	99	94	91	88	93	90	88	92	90	88	91	89	87	86	85	84	83	82	81	80	79	78	77	76	75	74															
8	98	93	89	87	97	92	89	87	91	88	86	90	88	86	89	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72														
9	96	91	87	85	95	90	87	85	90	87	85	89	86	84	88	86	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70														
10	94	89	86	83	94	89	85	83	88	85	83	87	85	83	87	85	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69														

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

	0°
0°	3942454
5°	3143130
10°	1364600
15°	471437
20°	193314
25°	87316
30°	35150
35°	16382
40°	8888
45°	3279
50°	1996
55°	1462
60°	888
65°	467
70°	577
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.6	55.0
10°-20°	288.1	33.0
20°-30°	79.3	9.1
30°-40°	18.9	2.2
40°-50°	4.6	0.5
50°-60°	1.5	0.2
60°-70°	0.6	0.1
70°-80°	0.1	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°	847.0	97.1
0°-40°	865.9	99.2
0°-60°	872.0	99.9
0°-90°	872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7991	
5°	6347	480
15°	923	288
25°	160	79
35°	27	19
45°	5	5
55°	2	2
65°	0	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7991.0
1°	7902.6
2°	7690.9
3°	7368.0
4°	6912.3
5°	6346.6
6°	5656.0
7°	4899.3
8°	4104.3
9°	3373.1
10°	2723.9
11°	2174.2
12°	1730.5
13°	1395.6
14°	1129.1
15°	923.0
17.5°	573.0
20°	368.2
22.5°	241.4
25°	160.4
27.5°	103.0
30°	61.7
32.5°	38.8
35°	27.2
37.5°	19.8
40°	13.8
42.5°	8.2
45°	4.7
47.5°	3.4
50°	2.6
52.5°	2.2
55°	1.7
57.5°	1.3
60°	0.9
62.5°	0.9
65°	0.4
67.5°	0.4
70°	0.4
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)