

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: P278403

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBAD1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P278403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-2)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B059027D010 EU2B05NFL259027 2LBAD1LI  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in ADJ spun Refl, Self-Flanged, LI  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 644.8 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

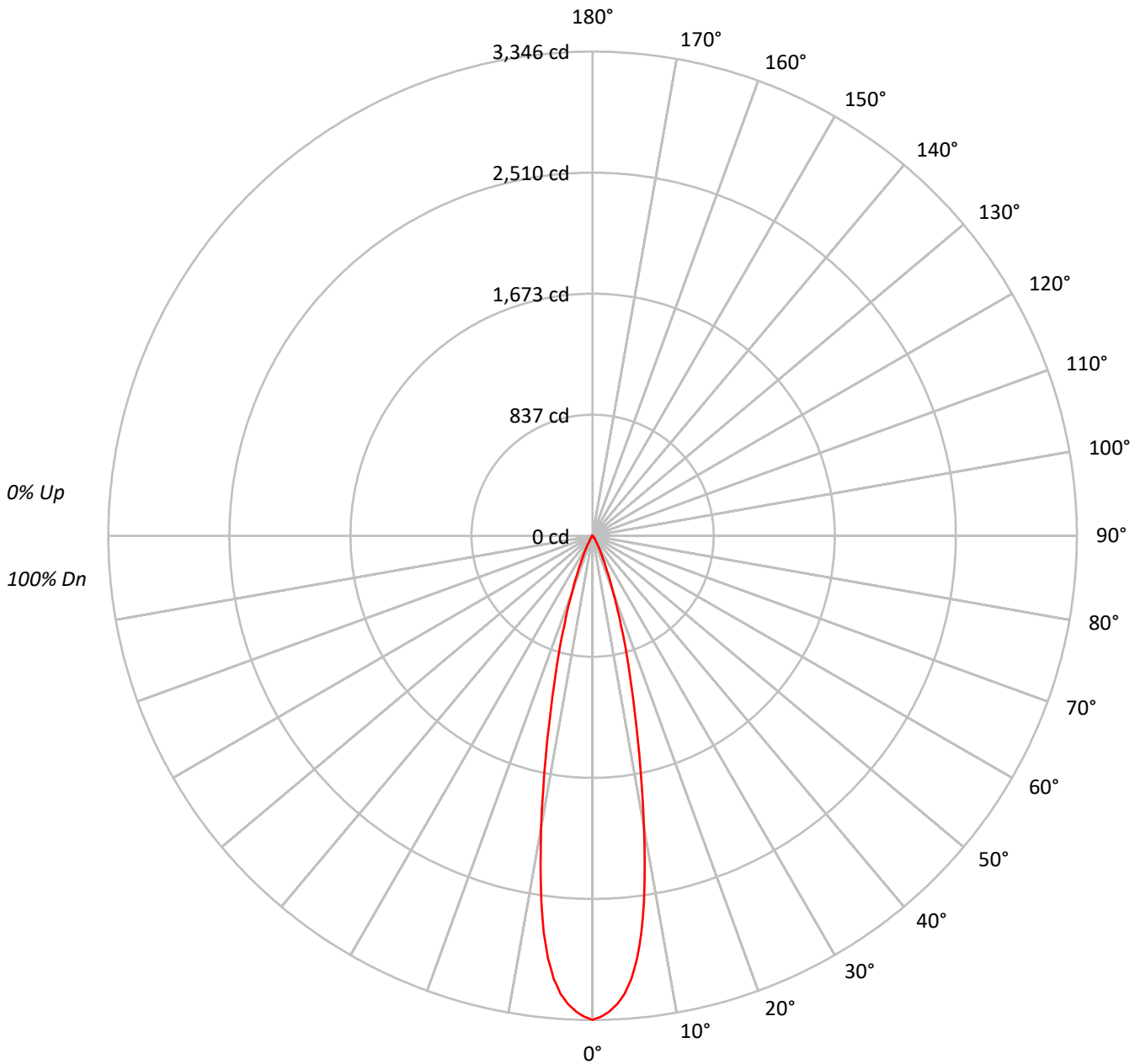
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P278403

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAD1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P278403

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAD1LI

**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	100	100	100	100	100													
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97	97	97	97	97	97	97													
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94	94	94	94	94	94	94													
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91	91	91	91	91	91	91													
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89	89	89	89	89	89	89													
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86	86	86	86	86	86	86													
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84	84	84	84	84	84	84													
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	82	82	82	82	82	82													
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80	80	80	80	80	80	80													
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78	78	78	78	78	78	78													
10	90	84	80	78	90	84	80	78	83	80	78	82	79	77	82	79	77	76	76	76	76	76	76	76													

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

	0°
0°	1650641
5°	1522338
10°	1025842
15°	505811
20°	216048
25°	84921
30°	33441
35°	14635
40°	7020
45°	3419
50°	1842
55°	1032
60°	592
65°	350
70°	433
75°	0
80°	0
85°	0



TEST NUMBER: P278403

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAD1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.4	40.4
10°-20°	280.4	43.5
20°-30°	81.0	12.6
30°-40°	17.1	2.6
40°-50°	4.2	0.7
50°-60°	1.2	0.2
60°-70°	0.4	0.1
70°-80°	0.2	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°	621.8	96.4
0°-40°	638.8	99.1
0°-60°	644.2	99.9
0°-90°	644.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3346	
5°	3074	260
15°	990	280
25°	156	81
35°	24	17
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P278403

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAD1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3345.7
1°	3324.8
2°	3289.2
3°	3241.1
4°	3173.0
5°	3073.9
6°	2940.0
7°	2765.5
8°	2550.7
9°	2300.4
10°	2047.7
11°	1792.2
12°	1551.1
13°	1337.0
14°	1148.7
15°	990.3
17.5°	654.5
20°	411.5
22.5°	253.0
25°	156.0
27.5°	95.2
30°	58.7
32.5°	37.1
35°	24.3
37.5°	16.1
40°	10.9
42.5°	7.6
45°	4.9
47.5°	3.0
50°	2.4
52.5°	1.8
55°	1.2
57.5°	0.9
60°	0.6
62.5°	0.6
65°	0.3
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.3
80°	0.0
82.5°	0.0



TEST NUMBER: P278403

CATALOG NUMBER: LDA2B059027D010 EU2B05NFL259027 2LBAD1LI

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)