

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: P278416

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P278416  
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 2LBALD1WHH  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in ADJ spun Refl w/lens Self-Flanged, WHH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 601.5 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

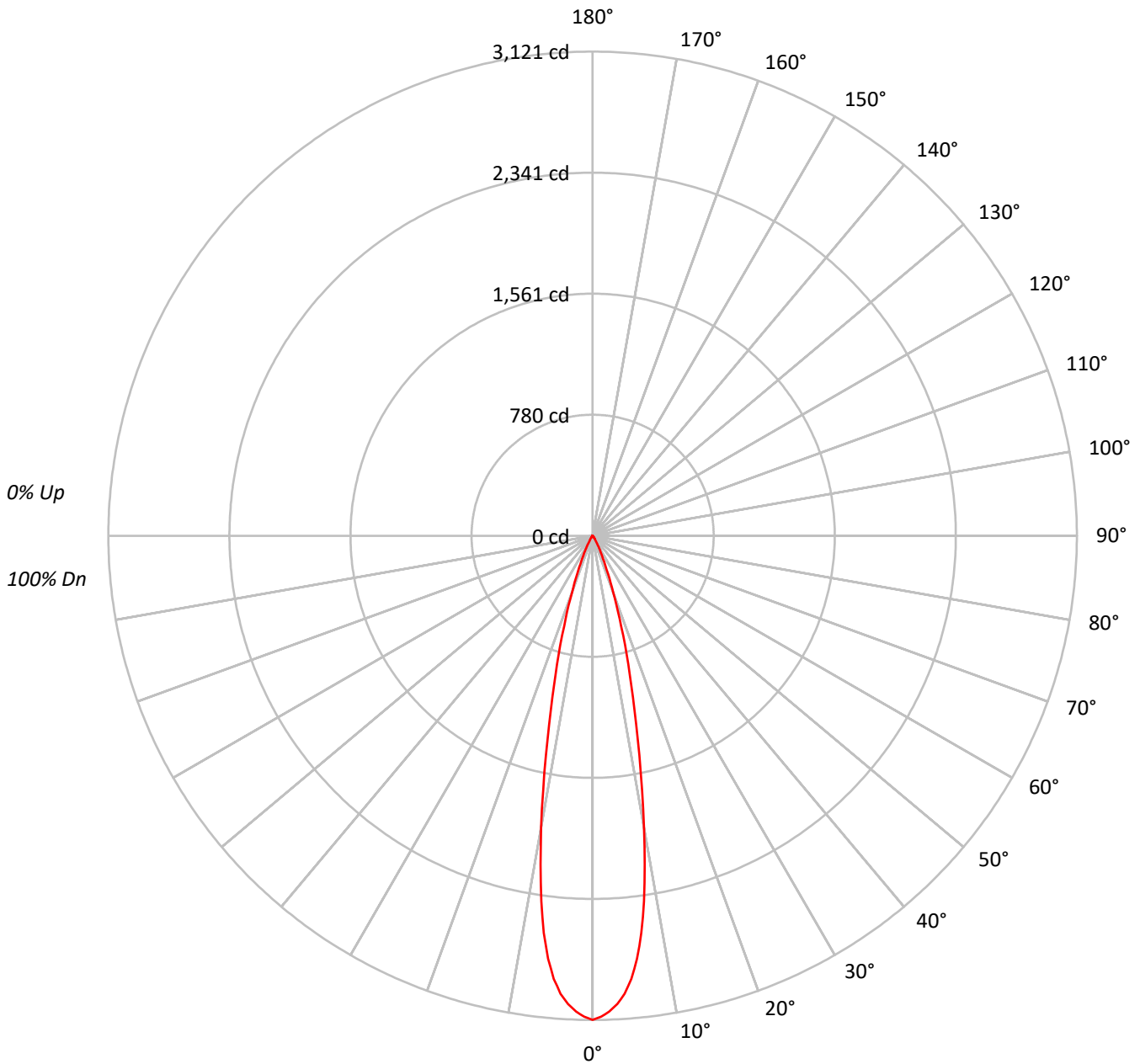
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									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	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	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97													97															
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94													94															
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91													91															
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89													89															
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86													86															
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84													84															
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82													82															
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80													80															
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78													78															
10	90	84	80	78	90	84	80	78	83	80	77	82	79	77	82	79	77	76													76															

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

	0°
0°	1539634
5°	1419921
10°	956858
15°	471794
20°	201504
25°	79205
30°	31162
35°	13672
40°	6569
45°	3140
50°	1765
55°	946
60°	592
65°	350
70°	433
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.9	40.4
10°-20°	261.6	43.5
20°-30°	75.5	12.6
30°-40°	15.9	2.6
40°-50°	3.9	0.7
50°-60°	1.1	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°	579.9	96.4
0°-40°	595.9	99.1
0°-60°	600.9	99.9
0°-90°	601.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3121	
5°	2867	243
15°	924	262
25°	146	76
35°	23	16
45°	4	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3120.7
1°	3101.2
2°	3068.0
3°	3023.2
4°	2959.6
5°	2867.1
6°	2742.3
7°	2579.5
8°	2379.2
9°	2145.7
10°	1910.0
11°	1671.7
12°	1446.8
13°	1247.0
14°	1071.5
15°	923.7
17.5°	610.5
20°	383.8
22.5°	236.0
25°	145.5
27.5°	88.8
30°	54.7
32.5°	34.6
35°	22.7
37.5°	15.0
40°	10.2
42.5°	7.1
45°	4.5
47.5°	2.8
50°	2.3
52.5°	1.7
55°	1.1
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



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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)