

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: P282315

Luminaire Tested: **LDA2B159024D010 EU2B15NFL259024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B159024D010 EU2B15NFL259024 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 937.1 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

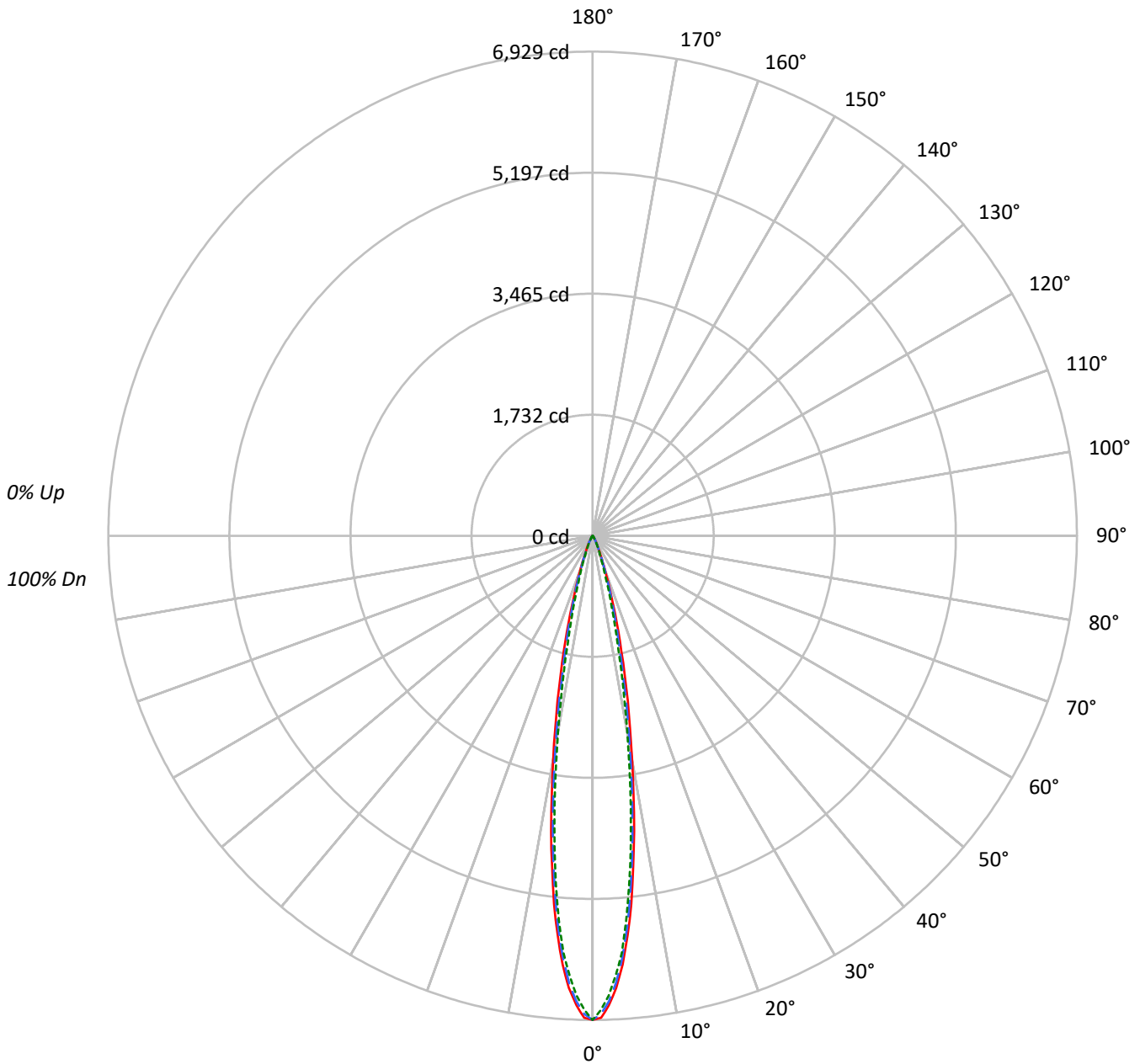
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	3418652	3418652	3418652
5°	2844695	2792546	2736187
10°	1629414	1529019	1427021
15°	724725	643667	539369
20°	262932	247182	195834
25°	100925	94284	81165
30°	43524	40505	35947
35°	20598	20598	17045
40°	10305	10691	8630
45°	6000	5582	5233
50°	4068	3684	3684
55°	3183	2322	2752
60°	2664	1579	2072
65°	1868	1284	1868
70°	1587	721	1587
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.7	48.1
10°-20°	364.7	38.9
20°-30°	87.9	9.4
30°-40°	22.4	2.4
40°-50°	6.7	0.7
50°-60°	2.8	0.3
60°-70°	1.4	0.1
70°-80°	0.4	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°	903.3	96.4
0°-40°	925.8	98.8
0°-60°	935.3	99.8
0°-90°	937.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	937.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6929	6929	6929	6929	6929	
5°	5744	5691	5639	5590	5525	464
15°	1419	1385	1260	1135	1056	405
25°	185	186	173	157	149	96
35°	34	35	34	31	28	24
45°	9	9	8	8	8	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6929.3	6929.3	6929.3	6929.3	6929.3
1°	6898.3	6850.2	6844.3	6874.3	6786.1
2°	6722.0	6687.8	6668.0	6685.6	6585.7
3°	6479.9	6446.7	6410.9	6411.5	6299.8
4°	6150.1	6123.9	6063.6	6045.4	5980.7
5°	5744.0	5691.1	5638.7	5589.5	5524.9
6°	5295.1	5226.6	5151.8	5078.6	5012.3
7°	4767.0	4721.6	4622.7	4522.8	4466.7
8°	4270.6	4197.4	4081.9	3956.9	3909.3
9°	3736.7	3684.3	3551.8	3406.4	3358.8
10°	3252.5	3198.0	3052.1	2890.2	2848.5
11°	2798.2	2746.9	2595.2	2425.2	2380.8
12°	2414.0	2341.3	2167.1	2019.6	1976.3
13°	2031.3	1981.6	1816.5	1670.6	1586.7
14°	1705.9	1664.7	1515.1	1386.8	1298.1
15°	1418.9	1385.2	1260.2	1135.1	1056.0
16°	1164.0	1143.1	1044.3	923.5	858.8
17°	944.3	925.1	862.0	750.9	696.4
18°	762.6	759.9	707.6	611.4	562.7
19°	627.4	626.3	578.2	497.5	457.5
20°	500.8	507.7	470.8	400.3	373.0
21°	408.3	412.0	382.6	329.2	304.6
22°	332.4	335.1	315.8	272.0	258.7
23°	272.6	274.2	258.1	225.5	213.8
24°	224.5	225.5	211.1	188.1	178.0
25°	185.4	186.5	173.2	157.1	149.1
26°	153.9	155.0	143.2	132.0	124.0
27°	127.7	129.9	118.1	111.2	102.6
28°	109.0	109.6	98.9	94.6	86.6
29°	89.2	92.5	83.4	79.6	73.8
30°	76.4	78.0	71.1	68.4	63.1
32.5°	50.8	51.8	48.6	46.5	42.2
35°	34.2	34.7	34.2	31.0	28.3
37.5°	23.5	23.5	24.0	20.3	19.2
40°	16.0	16.0	16.6	13.9	13.4
42.5°	11.8	11.8	11.2	9.6	9.6
45°	8.6	8.6	8.0	7.5	7.5
47.5°	6.9	6.4	5.9	5.9	5.9
50°	5.3	5.3	4.8	4.3	4.8
52.5°	4.3	4.3	3.7	3.7	3.7
55°	3.7	3.2	2.7	2.7	3.2
57.5°	2.7	2.7	2.1	2.1	2.7
60°	2.7	2.1	1.6	2.1	2.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.6	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.5	0.5	1.1
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







62.5°	2.1	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.1	1.1	1.6



(END OF REPORT)