

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: P282146

Luminaire Tested: **LDA2B059024D010 EU2B05NFL259024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282146  
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: LDA2B059024D010 EU2B05NFL259024 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 524.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 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

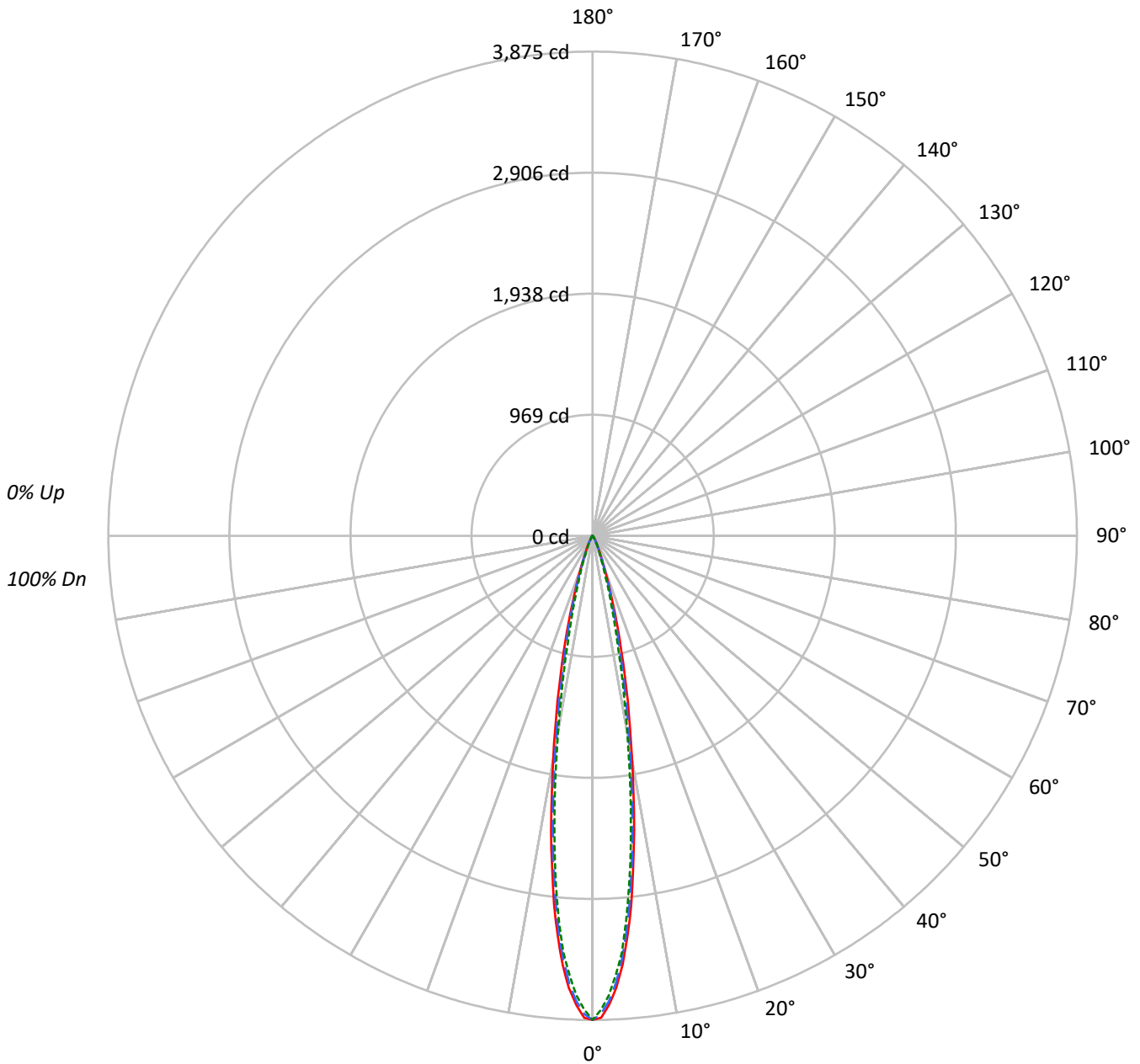
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1911678	1911678	1911678
5°	1590682	1561561	1530014
10°	911119	855010	797949
15°	405242	359937	301607
20°	147007	138239	109520
25°	56451	52694	45400
30°	24326	22616	20110
35°	11504	11504	9516
40°	5796	5990	4830
45°	3349	3140	2930
50°	2303	2072	2072
55°	1806	1290	1548
60°	1480	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.0	48.1
10°-20°	203.9	38.9
20°-30°	49.2	9.4
30°-40°	12.5	2.4
40°-50°	3.8	0.7
50°-60°	1.6	0.3
60°-70°	0.8	0.1
70°-80°	0.3	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°	505.1	96.4
0°-40°	517.7	98.8
0°-60°	523.0	99.8
0°-90°	524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3875	3875	3875	3875	3875	
5°	3212	3182	3153	3126	3089	260
15°	793	775	705	635	590	226
25°	104	104	97	88	83	54
35°	19	19	19	17	16	13
45°	5	5	4	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3874.8	3874.8	3874.8	3874.8	3874.8
1°	3857.4	3830.5	3827.2	3844.0	3794.7
2°	3758.8	3739.7	3728.6	3738.5	3682.6
3°	3623.4	3604.9	3584.9	3585.2	3522.7
4°	3439.1	3424.4	3390.6	3380.5	3344.3
5°	3211.9	3182.3	3153.1	3125.6	3089.4
6°	2960.9	2922.7	2880.8	2839.9	2802.8
7°	2665.7	2640.3	2585.0	2529.1	2497.7
8°	2388.0	2347.1	2282.5	2212.6	2186.0
9°	2089.5	2060.2	1986.1	1904.8	1878.2
10°	1818.7	1788.3	1706.7	1616.1	1592.8
11°	1564.7	1536.0	1451.2	1356.1	1331.3
12°	1349.9	1309.2	1211.8	1129.3	1105.1
13°	1135.9	1108.1	1015.8	934.2	887.3
14°	953.9	930.9	847.2	775.5	725.9
15°	793.4	774.6	704.7	634.7	590.5
16°	650.9	639.2	583.9	516.4	480.2
17°	528.1	517.3	482.0	419.9	389.4
18°	426.4	425.0	395.7	341.9	314.7
19°	350.8	350.2	323.3	278.2	255.8
20°	280.0	283.9	263.3	223.8	208.6
21°	228.3	230.4	214.0	184.1	170.3
22°	185.9	187.4	176.6	152.1	144.6
23°	152.4	153.3	144.3	126.1	119.5
24°	125.5	126.1	118.0	105.2	99.5
25°	103.7	104.3	96.8	87.9	83.4
26°	86.1	86.7	80.1	73.8	69.3
27°	71.4	72.6	66.0	62.2	57.4
28°	61.0	61.3	55.3	52.9	48.4
29°	49.9	51.7	46.6	44.5	41.2
30°	42.7	43.6	39.7	38.3	35.3
32.5°	28.4	29.0	27.2	26.0	23.6
35°	19.1	19.4	19.1	17.3	15.8
37.5°	13.1	13.1	13.4	11.4	10.8
40°	9.0	9.0	9.3	7.8	7.5
42.5°	6.6	6.6	6.3	5.4	5.4
45°	4.8	4.8	4.5	4.2	4.2
47.5°	3.9	3.6	3.3	3.3	3.3
50°	3.0	3.0	2.7	2.4	2.7
52.5°	2.4	2.4	2.1	2.1	2.1
55°	2.1	1.8	1.5	1.5	1.8
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)