

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: P282190

Luminaire Tested: **LDA2B059730D010 EU2B05NFL259730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282190  
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: LDA2B059730D010 EU2B05NFL259730 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 535.2 lumens  
Efficiency: N/A  
Efficacy: 76.5 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

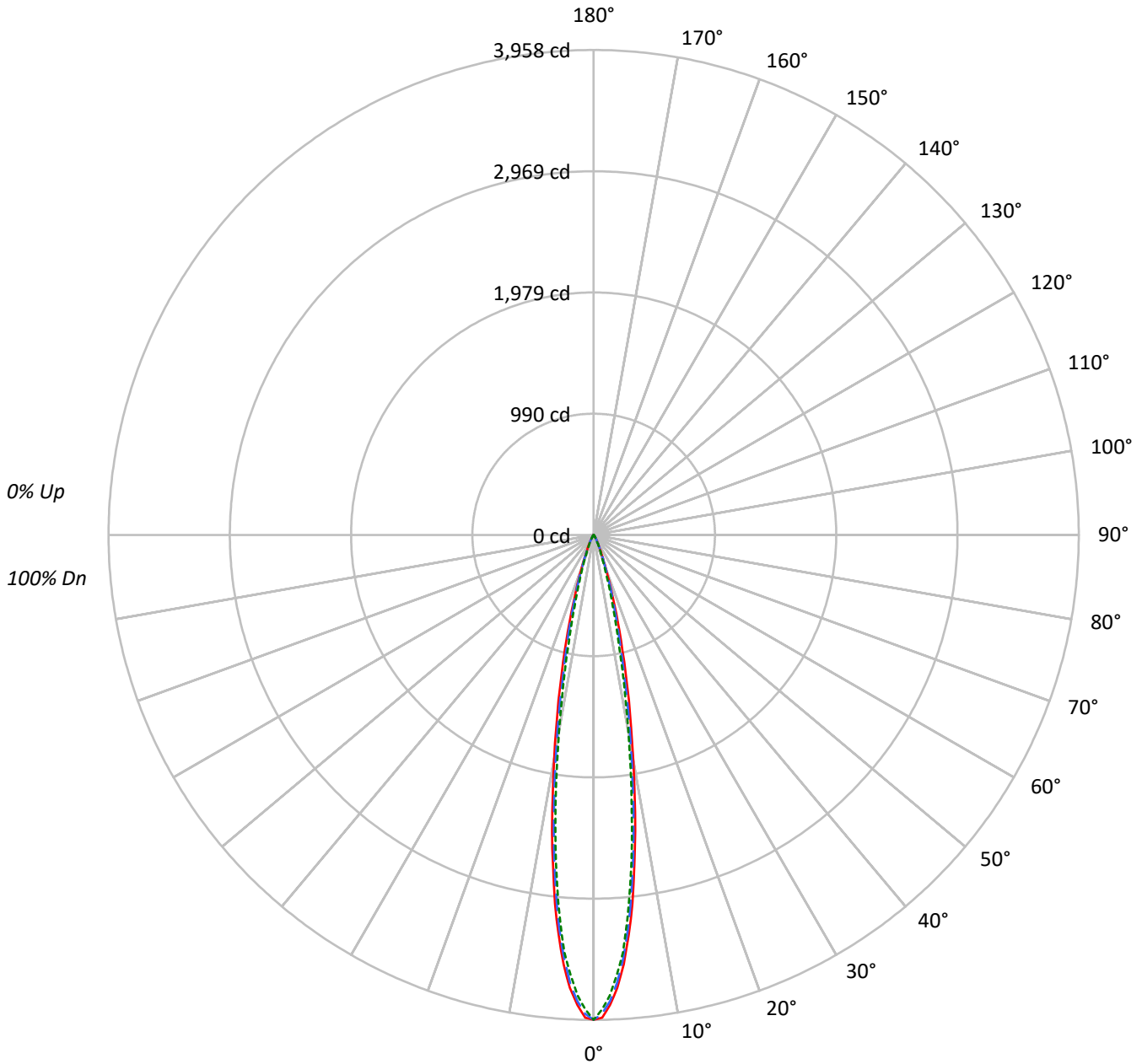
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	1952479	1952479	1952479
5°	1624656	1594891	1562700
10°	930607	873245	814982
15°	413925	367598	308043
20°	150157	141179	111830
25°	57648	53838	46380
30°	24838	23129	20509
35°	11745	11745	9757
40°	5925	6118	4895
45°	3419	3210	3000
50°	2379	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°	257.4	48.1
10°-20°	208.3	38.9
20°-30°	50.2	9.4
30°-40°	12.8	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°	515.9	96.4
0°-40°	528.7	98.8
0°-60°	534.2	99.8
0°-90°	535.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	535.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3958	3958	3958	3958	3958	
5°	3280	3250	3220	3192	3155	265
15°	810	791	720	648	603	231
25°	106	106	99	90	85	55
35°	20	20	20	18	16	13
45°	5	5	5	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°	3957.5	3957.5	3957.5	3957.5	3957.5
1°	3939.8	3912.3	3909.0	3926.1	3875.7
2°	3839.1	3819.6	3808.3	3818.3	3761.3
3°	3700.8	3681.9	3661.5	3661.8	3598.0
4°	3512.5	3497.5	3463.1	3452.7	3415.7
5°	3280.5	3250.3	3220.4	3192.3	3155.4
6°	3024.1	2985.1	2942.3	2900.5	2862.7
7°	2722.6	2696.6	2640.2	2583.1	2551.1
8°	2439.0	2397.2	2331.3	2259.9	2232.7
9°	2134.1	2104.2	2028.5	1945.5	1918.3
10°	1857.6	1826.5	1743.1	1650.6	1626.8
11°	1598.1	1568.8	1482.2	1385.1	1359.8
12°	1378.7	1337.2	1237.7	1153.4	1128.7
13°	1160.2	1131.8	1037.5	954.1	906.2
14°	974.3	950.8	865.3	792.1	741.4
15°	810.4	791.1	719.7	648.3	603.1
16°	664.8	652.9	596.4	527.4	490.5
17°	539.3	528.3	492.3	428.8	397.7
18°	435.6	434.0	404.1	349.2	321.4
19°	358.3	357.7	330.3	284.2	261.3
20°	286.0	290.0	268.9	228.6	213.0
21°	233.2	235.3	218.5	188.0	174.0
22°	189.8	191.4	180.4	155.4	147.7
23°	155.7	156.6	147.4	128.8	122.1
24°	128.2	128.8	120.6	107.4	101.6
25°	105.9	106.5	98.9	89.7	85.2
26°	87.9	88.5	81.8	75.4	70.8
27°	72.9	74.2	67.5	63.5	58.6
28°	62.3	62.6	56.5	54.0	49.4
29°	51.0	52.8	47.6	45.5	42.1
30°	43.6	44.6	40.6	39.1	36.0
32.5°	29.0	29.6	27.8	26.6	24.1
35°	19.5	19.8	19.5	17.7	16.2
37.5°	13.4	13.4	13.7	11.6	11.0
40°	9.2	9.2	9.5	7.9	7.6
42.5°	6.7	6.7	6.4	5.5	5.5
45°	4.9	4.9	4.6	4.3	4.3
47.5°	4.0	3.7	3.4	3.4	3.4
50°	3.1	3.1	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)