

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: P283834

Luminaire Tested: **LDA2B059027D010 EU2B05WFL559027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B059027D010 EU2B05WFL559027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 561.5 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

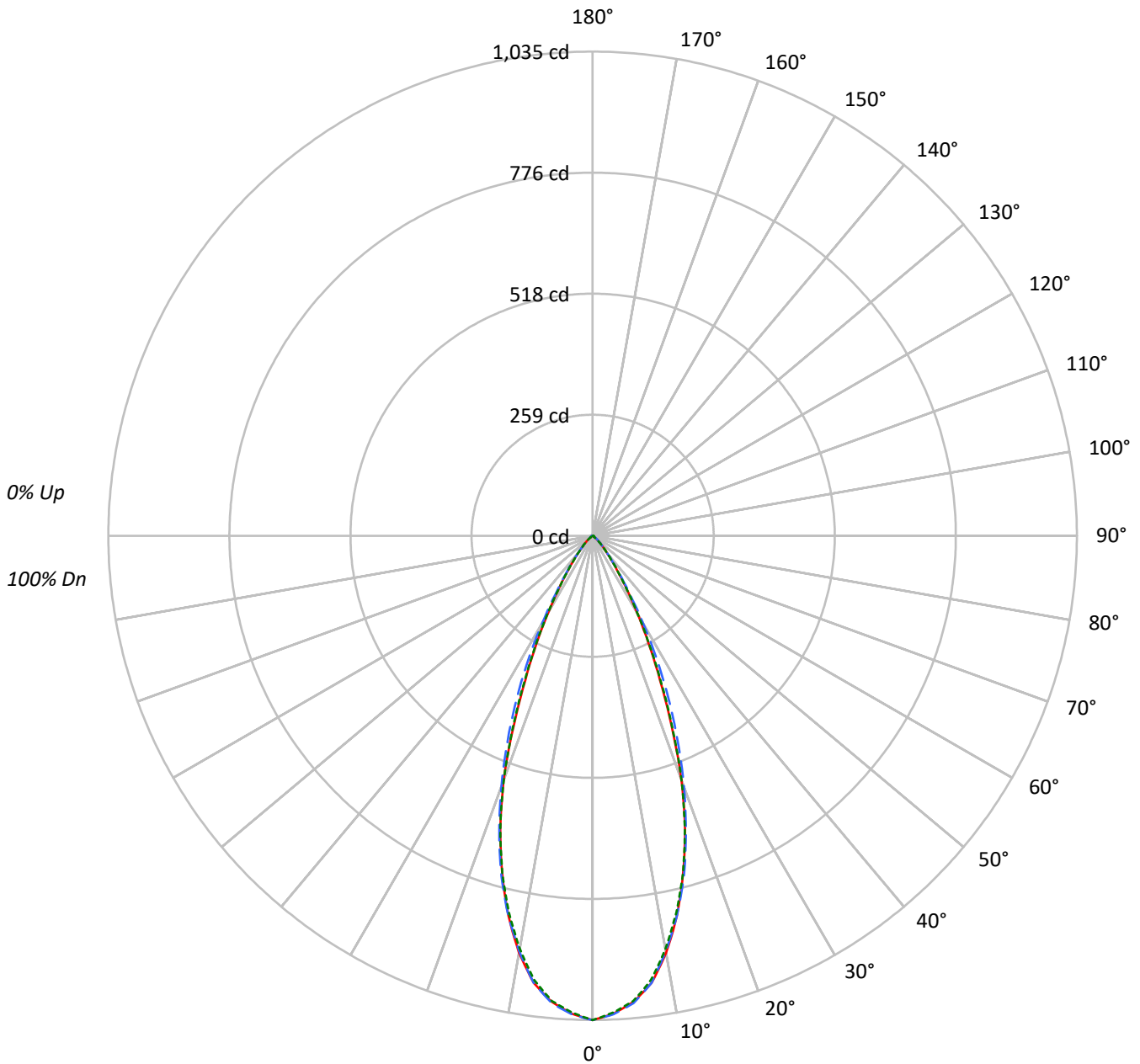
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	510827	510827	510827
5°	495444	496633	494404
10°	453531	451727	448972
15°	381491	385015	380878
20°	291704	299474	291231
25°	185247	208873	188840
30°	107727	121628	109607
35°	56976	60590	57157
40°	30077	31429	30077
45°	16815	17443	17024
50°	7829	9901	7829
55°	2838	5419	3097
60°	3256	3256	3256
65°	3502	3852	3502
70°	4327	3895	4327
75°	4003	4003	4003
80°	4262	3409	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	16.5
10°-20°	205.8	36.6
20°-30°	166.2	29.6
30°-40°	65.7	11.7
40°-50°	20.2	3.6
50°-60°	5.2	0.9
60°-70°	3.1	0.6
70°-80°	2.3	0.4
80°-90°	0.7	0.1
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°	464.4	82.7
0°-40°	530.1	94.4
0°-60°	555.4	98.9
0°-90°	561.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	561.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1000	1002	1003	1001	998	93
15°	747	749	754	751	746	205
25°	340	357	384	363	347	158
35°	95	97	101	98	95	63
45°	24	24	25	25	24	20
55°	3	4	6	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035.4	1035.4	1035.4	1035.4	1035.4
2.5°	1022.4	1023.0	1023.9	1022.7	1019.7
5°	1000.4	1002.2	1002.8	1000.7	998.3
7.5°	964.3	962.2	964.0	960.4	957.4
10°	905.3	902.6	901.7	896.2	896.2
12.5°	832.4	831.5	832.1	829.4	825.2
15°	746.9	749.0	753.8	750.8	745.7
17.5°	656.2	659.2	663.4	662.5	655.6
20°	555.6	564.4	570.4	564.7	554.7
22.5°	441.2	459.9	475.2	463.2	446.9
25°	340.3	356.6	383.7	363.2	346.9
27.5°	258.1	269.8	294.5	274.4	263.2
30°	189.1	196.4	213.5	200.3	192.4
32.5°	135.2	140.3	147.6	139.7	135.8
35°	94.6	97.3	100.6	97.6	94.9
37.5°	66.6	67.5	69.9	67.5	66.3
40°	46.7	47.0	48.8	47.3	46.7
42.5°	33.7	33.7	34.6	34.0	33.7
45°	24.1	24.4	25.0	24.7	24.4
47.5°	17.2	17.8	17.8	18.1	16.9
50°	10.2	12.6	12.9	12.6	10.2
52.5°	5.4	7.5	9.3	7.5	5.4
55°	3.3	4.5	6.3	4.5	3.6
57.5°	3.3	3.3	4.2	3.6	3.3
60°	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.3	3.3	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.4	2.7	2.7
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.2	1.5	1.5
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)