

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: P283918

Luminaire Tested: **LDA2B109027D010 EU2B10WFL559027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283918  
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: LDA2B109027D010 EU2B10WFL559027 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 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: 762.9 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

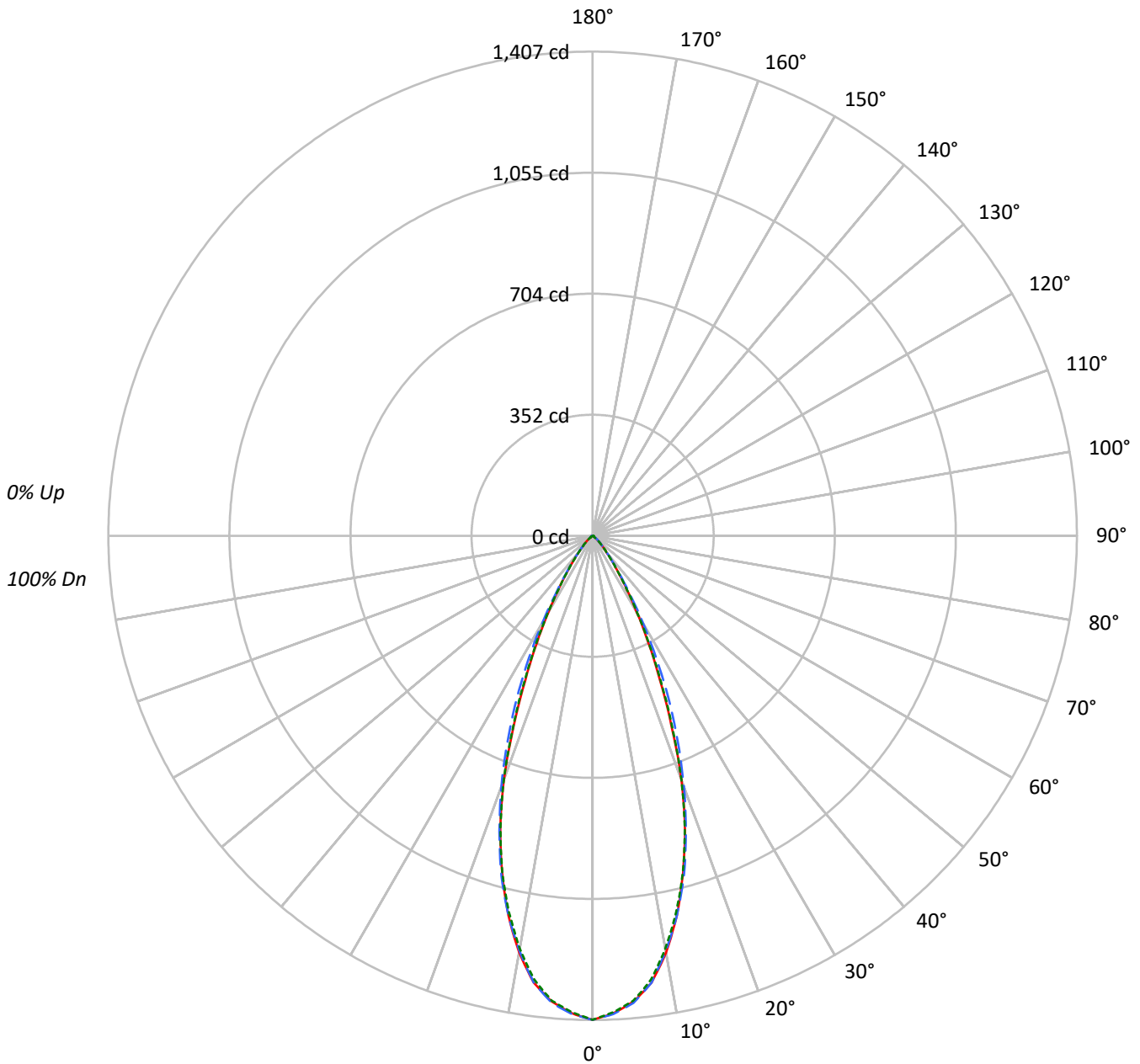
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	693963	693963	693963
5°	673139	674724	671703
10°	616146	613692	609984
15°	518274	523075	517406
20°	396341	406842	395659
25°	251660	283723	256559
30°	146352	165266	148916
35°	77393	82332	77634
40°	40832	42700	40832
45°	22815	23722	23094
50°	10669	13509	10669
55°	3871	7397	4215
60°	4440	4440	4440
65°	4786	5253	4786
70°	5914	5337	5914
75°	5528	5528	5528
80°	5682	4546	5682
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	16.5
10°-20°	279.6	36.6
20°-30°	225.8	29.6
30°-40°	89.2	11.7
40°-50°	27.4	3.6
50°-60°	7.1	0.9
60°-70°	4.3	0.6
70°-80°	3.2	0.4
80°-90°	0.9	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°	630.9	82.7
0°-40°	720.1	94.4
0°-60°	754.6	98.9
0°-90°	762.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1359	1362	1362	1360	1356	126
15°	1015	1018	1024	1020	1013	279
25°	462	484	521	493	471	215
35°	128	132	137	133	129	86
45°	33	33	34	34	33	27
55°	4	6	9	6	5	6
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1406.6	1406.6	1406.6	1406.6	1406.6
2.5°	1389.0	1389.8	1391.1	1389.4	1385.3
5°	1359.2	1361.6	1362.4	1359.6	1356.3
7.5°	1310.1	1307.2	1309.7	1304.7	1300.7
10°	1229.9	1226.2	1225.0	1217.6	1217.6
12.5°	1130.9	1129.6	1130.5	1126.8	1121.0
15°	1014.7	1017.5	1024.1	1020.0	1013.0
17.5°	891.5	895.6	901.3	900.1	890.7
20°	754.9	766.7	774.9	767.1	753.6
22.5°	599.4	624.8	645.6	629.3	607.2
25°	462.3	484.4	521.2	493.4	471.3
27.5°	350.6	366.6	400.1	372.7	357.6
30°	256.9	266.8	290.1	272.1	261.4
32.5°	183.7	190.7	200.5	189.8	184.5
35°	128.5	132.2	136.7	132.6	128.9
37.5°	90.4	91.6	94.9	91.6	90.0
40°	63.4	63.8	66.3	64.2	63.4
42.5°	45.8	45.8	47.1	46.2	45.8
45°	32.7	33.1	34.0	33.5	33.1
47.5°	23.3	24.1	24.1	24.5	22.9
50°	13.9	17.2	17.6	17.2	13.9
52.5°	7.4	10.2	12.7	10.2	7.4
55°	4.5	6.1	8.6	6.1	4.9
57.5°	4.5	4.5	5.7	4.9	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.5	4.5	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.7
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.0	2.0	1.6	2.0	2.0
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)