

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: P283946

Luminaire Tested: **LDA2B109727D010 EU2B10WFL559727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283946  
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: LDA2B109727D010 EU2B10WFL559727 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 693.1 lumens  
Efficiency: N/A  
Efficacy: 69.3 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

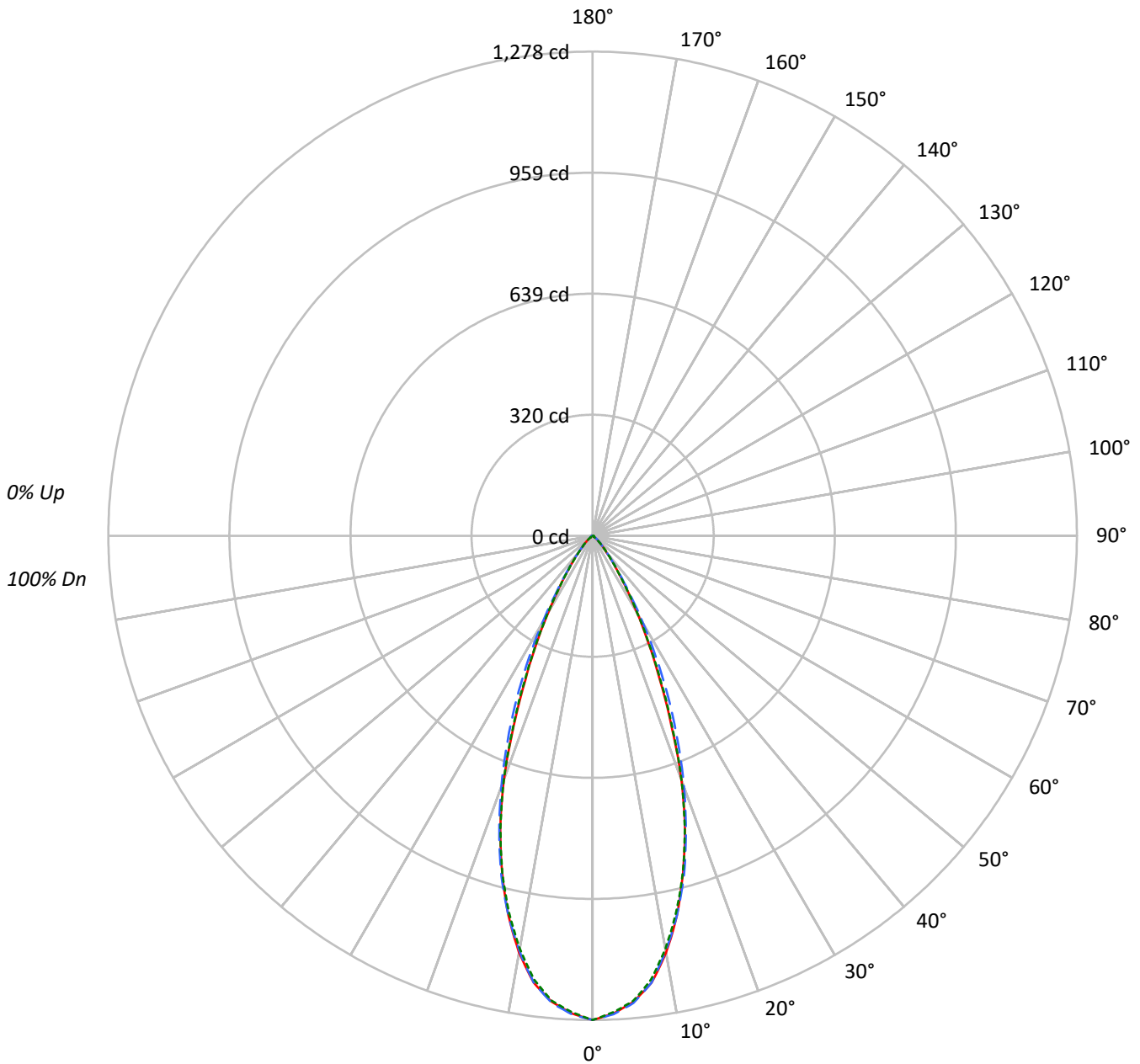
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	630516	630516	630516
5°	611580	613016	610292
10°	559787	557533	554176
15°	470875	475216	470109
20°	360062	369617	359484
25°	228633	257811	233097
30°	132965	150169	135300
35°	70286	74804	70527
40°	37097	38771	37097
45°	20722	21560	21001
50°	9671	12281	9671
55°	3527	6709	3871
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4760	5337
75°	4956	4956	4956
80°	5398	4262	5398
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	16.5
10°-20°	254.0	36.6
20°-30°	205.1	29.6
30°-40°	81.1	11.7
40°-50°	24.9	3.6
50°-60°	6.4	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.4
80°-90°	0.8	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°	573.2	82.7
0°-40°	654.3	94.4
0°-60°	685.6	98.9
0°-90°	693.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1235	1237	1238	1235	1232	114
15°	922	924	930	927	920	253
25°	420	440	474	448	428	196
35°	117	120	124	120	117	78
45°	30	30	31	30	30	24
55°	4	6	8	6	4	5
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°	1278.0	1278.0	1278.0	1278.0	1278.0
2.5°	1262.0	1262.7	1263.9	1262.4	1258.6
5°	1234.9	1237.1	1237.8	1235.2	1232.3
7.5°	1190.3	1187.6	1189.9	1185.4	1181.7
10°	1117.4	1114.0	1112.9	1106.2	1106.2
12.5°	1027.4	1026.3	1027.1	1023.7	1018.5
15°	921.9	924.5	930.4	926.7	920.4
17.5°	810.0	813.7	818.9	817.8	809.2
20°	685.8	696.6	704.0	697.0	684.7
22.5°	544.6	567.6	586.6	571.7	551.6
25°	420.0	440.1	473.6	448.3	428.2
27.5°	318.6	333.1	363.5	338.6	324.9
30°	233.4	242.4	263.6	247.2	237.5
32.5°	166.9	173.2	182.1	172.5	167.6
35°	116.7	120.1	124.2	120.4	117.1
37.5°	82.2	83.3	86.2	83.3	81.8
40°	57.6	58.0	60.2	58.4	57.6
42.5°	41.6	41.6	42.7	42.0	41.6
45°	29.7	30.1	30.9	30.5	30.1
47.5°	21.2	21.9	21.9	22.3	20.8
50°	12.6	15.6	16.0	15.6	12.6
52.5°	6.7	9.3	11.5	9.3	6.7
55°	4.1	5.6	7.8	5.6	4.5
57.5°	4.1	4.1	5.2	4.5	4.1
60°	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.7	4.1	4.1	4.1	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.3	3.7	3.7
72.5°	3.3	3.3	3.0	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
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)