

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: P283947

Luminaire Tested: **LDA2B109727D010 EU2B10WFL559727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283947  
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 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 673.5 lumens  
Efficiency: N/A  
Efficacy: 67.4 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

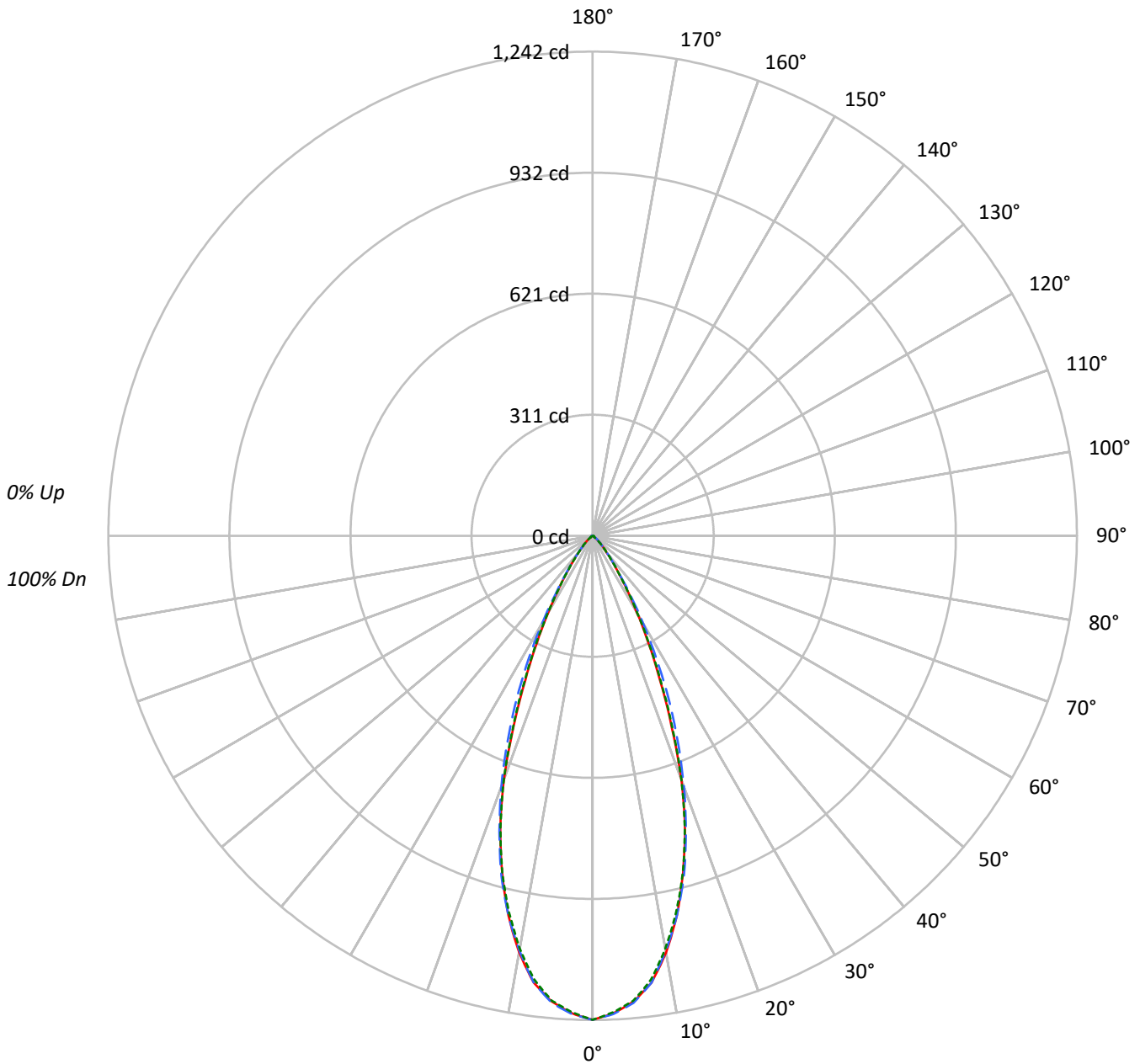
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	612607	612607	612607
5°	594197	595633	592909
10°	543856	541702	538445
15°	457493	461732	456727
20°	349824	359117	349299
25°	222155	250462	226510
30°	129205	145896	131483
35°	68299	72635	68540
40°	36066	37676	36066
45°	20164	20932	20443
50°	9441	11897	9441
55°	3441	6537	3699
60°	3947	3947	3947
65°	4203	4670	4203
70°	5193	4760	5193
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	16.5
10°-20°	246.8	36.6
20°-30°	199.3	29.6
30°-40°	78.8	11.7
40°-50°	24.2	3.6
50°-60°	6.2	0.9
60°-70°	3.8	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°	556.9	82.7
0°-40°	635.7	94.4
0°-60°	666.1	98.9
0°-90°	673.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	673.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1200	1202	1203	1200	1197	111
15°	896	898	904	900	894	246
25°	408	428	460	436	416	190
35°	113	117	121	117	114	76
45°	29	29	30	30	29	24
55°	4	5	8	5	4	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	1241.7	1241.7	1241.7	1241.7	1241.7
2.5°	1226.1	1226.9	1227.9	1226.5	1222.9
5°	1199.8	1201.9	1202.7	1200.1	1197.2
7.5°	1156.4	1153.9	1156.1	1151.7	1148.1
10°	1085.6	1082.4	1081.3	1074.8	1074.8
12.5°	998.2	997.2	997.9	994.6	989.6
15°	895.7	898.2	904.0	900.4	894.2
17.5°	787.0	790.6	795.6	794.5	786.2
20°	666.3	676.8	684.0	677.2	665.3
22.5°	529.1	551.5	569.9	555.5	536.0
25°	408.1	427.6	460.1	435.6	416.1
27.5°	309.5	323.6	353.2	329.0	315.7
30°	226.8	235.5	256.1	240.2	230.8
32.5°	162.2	168.3	177.0	167.6	162.9
35°	113.4	116.7	120.6	117.0	113.8
37.5°	79.8	80.9	83.8	80.9	79.5
40°	56.0	56.3	58.5	56.7	56.0
42.5°	40.4	40.4	41.5	40.8	40.4
45°	28.9	29.3	30.0	29.6	29.3
47.5°	20.6	21.3	21.3	21.7	20.2
50°	12.3	15.2	15.5	15.2	12.3
52.5°	6.5	9.0	11.2	9.0	6.5
55°	4.0	5.4	7.6	5.4	4.3
57.5°	4.0	4.0	5.1	4.3	4.0
60°	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.6	4.0	4.0	4.0	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.3	3.6	3.6
72.5°	3.3	3.3	2.9	3.3	3.3
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.4	1.8	1.8
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)