

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: P283917

Luminaire Tested: **LDA2B109027D010 EU2B10WFL559027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283917  
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 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: 748.4 lumens  
Efficiency: N/A  
Efficacy: 74.8 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

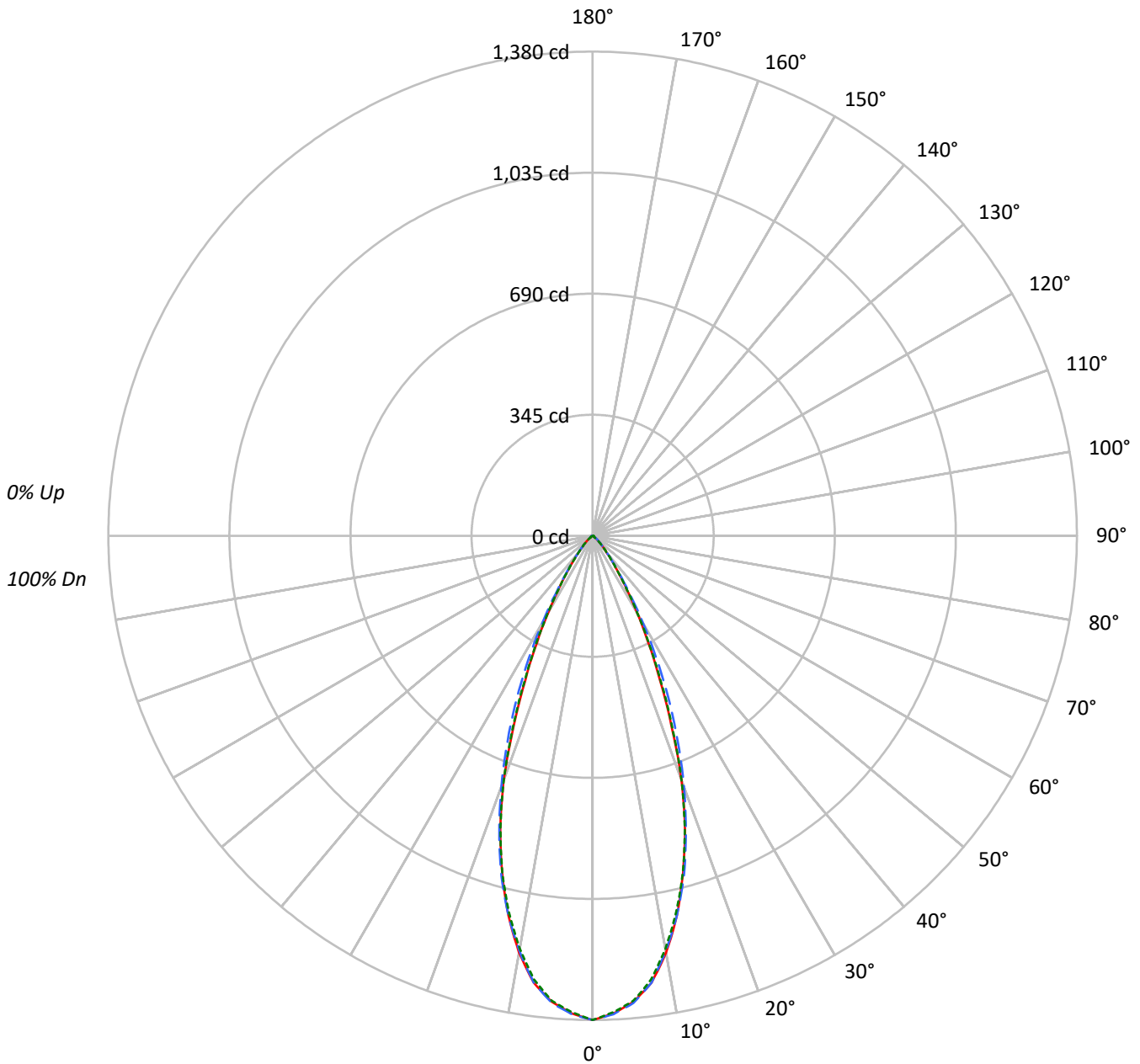
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	680839	680839	680839
5°	660361	661946	658975
10°	604474	602019	598412
15°	508416	513166	507599
20°	388833	399124	388203
25°	246924	278388	251714
30°	143618	162132	146124
35°	75888	80766	76129
40°	40059	41862	40059
45°	22397	23234	22676
50°	10438	13278	10438
55°	3785	7225	4129
60°	4342	4342	4342
65°	4670	5137	4670
70°	5770	5193	5770
75°	5337	5337	5337
80°	5682	4546	5682
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	16.5
10°-20°	274.3	36.6
20°-30°	221.5	29.6
30°-40°	87.5	11.7
40°-50°	26.9	3.6
50°-60°	6.9	0.9
60°-70°	4.2	0.6
70°-80°	3.1	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°	619.0	82.7
0°-40°	706.5	94.4
0°-60°	740.3	98.9
0°-90°	748.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1333	1336	1337	1334	1331	123
15°	995	998	1005	1001	994	273
25°	454	475	511	484	462	211
35°	126	130	134	130	126	84
45°	32	32	33	33	32	26
55°	4	6	8	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°	1380.0	1380.0	1380.0	1380.0	1380.0
2.5°	1362.7	1363.5	1364.7	1363.1	1359.1
5°	1333.4	1335.8	1336.6	1333.8	1330.6
7.5°	1285.2	1282.4	1284.8	1280.0	1276.0
10°	1206.6	1203.0	1201.7	1194.5	1194.5
12.5°	1109.4	1108.2	1109.0	1105.4	1099.8
15°	995.4	998.2	1004.7	1000.7	993.8
17.5°	874.6	878.6	884.3	883.0	873.8
20°	740.6	752.2	760.2	752.6	739.4
22.5°	588.0	612.9	633.4	617.3	595.7
25°	453.6	475.2	511.4	484.1	462.4
27.5°	344.0	359.6	392.6	365.7	350.8
30°	252.1	261.7	284.6	266.9	256.5
32.5°	180.2	187.0	196.7	186.2	181.0
35°	126.0	129.6	134.1	130.0	126.4
37.5°	88.7	89.9	93.1	89.9	88.3
40°	62.2	62.6	65.0	63.0	62.2
42.5°	45.0	45.0	46.2	45.4	45.0
45°	32.1	32.5	33.3	32.9	32.5
47.5°	22.9	23.7	23.7	24.1	22.5
50°	13.6	16.9	17.3	16.9	13.6
52.5°	7.2	10.0	12.4	10.0	7.2
55°	4.4	6.0	8.4	6.0	4.8
57.5°	4.4	4.4	5.6	4.8	4.4
60°	4.4	4.4	4.4	4.4	4.4
62.5°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.4	4.4	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.6	4.0	4.0
72.5°	3.6	3.6	3.2	3.6	3.6
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.4	2.4	2.4	2.4	2.4
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)