

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: P283940

Luminaire Tested: **LDA2B109050D010 EU2B10WFL559050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283940  
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: LDA2B109050D010 EU2B10WFL559050 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: 875.5 lumens  
Efficiency: N/A  
Efficacy: 87.5 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

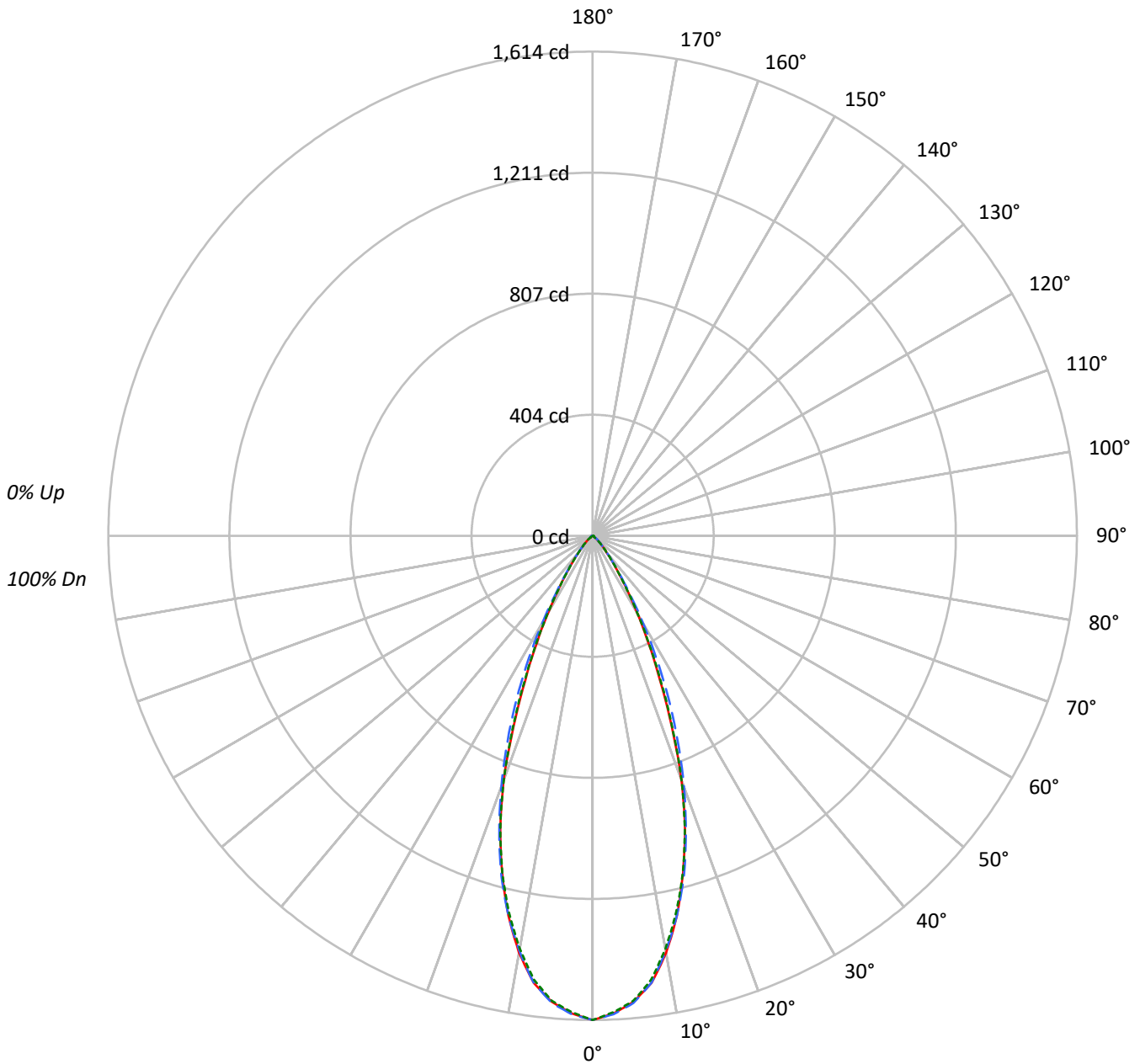
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	796335	796335	796335
5°	772386	774268	770752
10°	707023	704167	699959
15°	594685	600201	593714
20°	454776	466852	454041
25°	288785	325584	294392
30°	167943	189648	170906
35°	88777	94438	89078
40°	46886	49011	46886
45°	26234	27211	26513
50°	12281	15504	12281
55°	4473	8515	4817
60°	5131	5131	5131
65°	5487	6070	5487
70°	6780	6058	6780
75°	6290	6290	6290
80°	6535	5398	6535
85°	5095	5095	5095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.1	16.5
10°-20°	320.8	36.6
20°-30°	259.1	29.6
30°-40°	102.4	11.7
40°-50°	31.4	3.6
50°-60°	8.1	0.9
60°-70°	4.9	0.6
70°-80°	3.6	0.4
80°-90°	1.1	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°	724.0	82.7
0°-40°	826.4	94.4
0°-60°	865.9	98.9
0°-90°	875.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	875.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1560	1562	1563	1560	1556	144
15°	1164	1168	1175	1170	1162	320
25°	530	556	598	566	541	247
35°	147	152	157	152	148	99
45°	38	38	39	38	38	31
55°	5	7	10	7	6	7
65°	5	5	5	5	5	5
75°	3	3	3	3	3	4
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°	1614.1	1614.1	1614.1	1614.1	1614.1
2.5°	1593.9	1594.8	1596.2	1594.3	1589.7
5°	1559.6	1562.4	1563.4	1560.1	1556.3
7.5°	1503.3	1500.0	1502.8	1497.2	1492.5
10°	1411.3	1407.0	1405.6	1397.2	1397.2
12.5°	1297.6	1296.2	1297.2	1292.9	1286.4
15°	1164.3	1167.6	1175.1	1170.4	1162.4
17.5°	1023.0	1027.7	1034.3	1032.9	1022.1
20°	866.2	879.8	889.2	880.3	864.8
22.5°	687.8	716.9	740.8	722.1	696.7
25°	530.5	555.9	598.1	566.2	540.8
27.5°	402.3	420.7	459.1	427.7	410.3
30°	294.8	306.1	332.9	312.2	300.0
32.5°	210.8	218.8	230.0	217.8	211.7
35°	147.4	151.6	156.8	152.1	147.9
37.5°	103.8	105.2	108.9	105.2	103.3
40°	72.8	73.2	76.1	73.7	72.8
42.5°	52.6	52.6	54.0	53.1	52.6
45°	37.6	38.0	39.0	38.5	38.0
47.5°	26.8	27.7	27.7	28.2	26.3
50°	16.0	19.7	20.2	19.7	16.0
52.5°	8.5	11.7	14.6	11.7	8.5
55°	5.2	7.0	9.9	7.0	5.6
57.5°	5.2	5.2	6.6	5.6	5.2
60°	5.2	5.2	5.2	5.2	5.2
62.5°	5.2	5.2	5.2	5.2	5.2
65°	4.7	5.2	5.2	5.2	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.2	4.7	4.7
72.5°	4.2	4.2	3.8	4.2	4.2
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	1.9	2.3	2.3
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)