

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: P283915

Luminaire Tested: **LDA2B109024D010 EU2B10WFL559024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283915  
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: LDA2B109024D010 EU2B10WFL559024 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 656.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 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

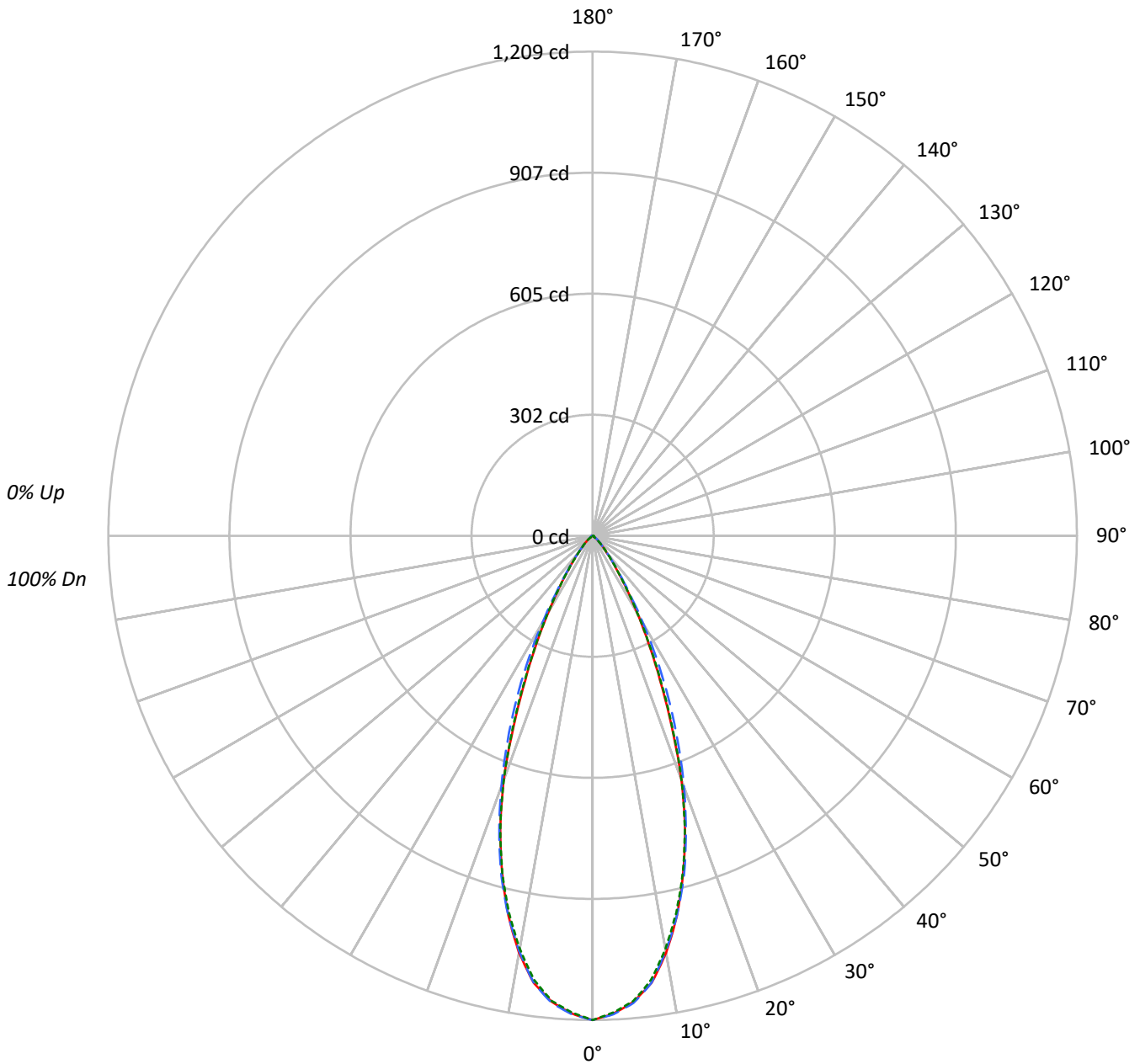
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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°	596622	596622	596622
5°	578695	580082	577507
10°	529729	527624	524418
15°	445592	449678	444826
20°	340741	349771	340163
25°	216385	243930	220576
30°	125843	142079	128065
35°	66552	70768	66733
40°	35100	36710	35100
45°	19606	20373	19885
50°	9210	11590	9210
55°	3355	6365	3613
60°	3848	3848	3848
65°	4086	4553	4086
70°	5049	4616	5049
75°	4766	4766	4766
80°	5114	3978	5114
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	16.5
10°-20°	240.4	36.6
20°-30°	194.1	29.6
30°-40°	76.7	11.7
40°-50°	23.6	3.6
50°-60°	6.1	0.9
60°-70°	3.7	0.6
70°-80°	2.7	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°	542.4	82.7
0°-40°	619.1	94.4
0°-60°	648.8	98.9
0°-90°	656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1168	1171	1171	1169	1166	108
15°	872	875	880	877	871	240
25°	398	416	448	424	405	185
35°	110	114	118	114	111	74
45°	28	28	29	29	28	23
55°	4	5	7	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°	1209.3	1209.3	1209.3	1209.3	1209.3
2.5°	1194.2	1194.9	1196.0	1194.6	1191.0
5°	1168.5	1170.6	1171.3	1168.9	1166.1
7.5°	1126.3	1123.9	1126.0	1121.7	1118.2
10°	1057.4	1054.2	1053.2	1046.8	1046.8
12.5°	972.2	971.2	971.9	968.7	963.8
15°	872.4	874.8	880.4	876.9	870.9
17.5°	766.5	770.0	774.9	773.9	765.8
20°	649.0	659.2	666.2	659.5	647.9
22.5°	515.3	537.1	555.1	541.0	522.0
25°	397.5	416.5	448.1	424.2	405.2
27.5°	301.5	315.2	344.0	320.4	307.4
30°	220.9	229.3	249.4	233.9	224.8
32.5°	157.9	163.9	172.4	163.2	158.6
35°	110.5	113.6	117.5	114.0	110.8
37.5°	77.7	78.8	81.6	78.8	77.4
40°	54.5	54.9	57.0	55.2	54.5
42.5°	39.4	39.4	40.5	39.7	39.4
45°	28.1	28.5	29.2	28.8	28.5
47.5°	20.0	20.8	20.8	21.1	19.7
50°	12.0	14.8	15.1	14.8	12.0
52.5°	6.3	8.8	10.9	8.8	6.3
55°	3.9	5.3	7.4	5.3	4.2
57.5°	3.9	3.9	4.9	4.2	3.9
60°	3.9	3.9	3.9	3.9	3.9
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.5	3.9	3.9	3.9	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.2	3.5	3.5
72.5°	3.2	3.2	2.8	3.2	3.2
75°	2.5	2.5	2.5	2.5	2.5
77.5°	2.1	2.1	2.1	2.1	2.1
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)