

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: P283931

Luminaire Tested: **LDA2B109035D010 EU2B10WFL559035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283931  
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: LDA2B109035D010 EU2B10WFL559035 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 782.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

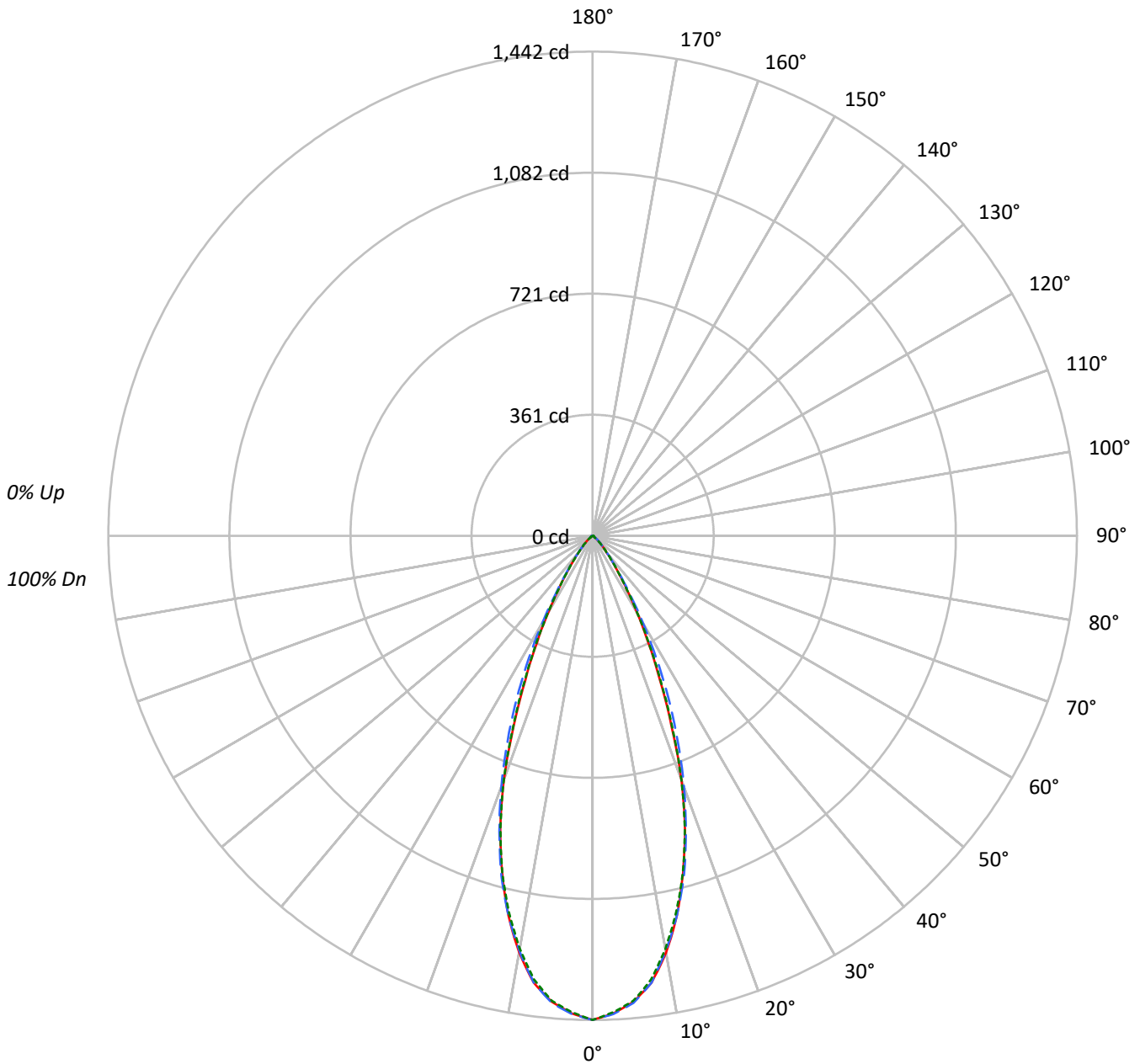
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	711378	711378	711378
5°	689977	691661	688541
10°	631576	629071	625264
15°	531247	536151	530379
20°	406264	417027	405582
25°	257974	290854	262982
30°	150055	169367	152676
35°	79321	84380	79562
40°	41862	43730	41862
45°	23443	24281	23722
50°	10976	13816	10976
55°	3957	7569	4301
60°	4539	4539	4539
65°	4903	5370	4903
70°	6058	5481	6058
75°	5528	5528	5528
80°	5966	4830	5966
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	16.5
10°-20°	286.6	36.6
20°-30°	231.4	29.6
30°-40°	91.5	11.7
40°-50°	28.1	3.6
50°-60°	7.2	0.9
60°-70°	4.4	0.6
70°-80°	3.2	0.4
80°-90°	1.0	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°	646.7	82.7
0°-40°	738.2	94.4
0°-60°	773.5	98.9
0°-90°	782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1393	1396	1397	1394	1390	129
15°	1040	1043	1050	1046	1038	286
25°	474	497	534	506	483	221
35°	132	136	140	136	132	88
45°	34	34	35	34	34	27
55°	5	6	9	6	5	6
65°	4	5	5	5	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°	1441.9	1441.9	1441.9	1441.9	1441.9
2.5°	1423.8	1424.7	1425.9	1424.3	1420.1
5°	1393.2	1395.7	1396.6	1393.6	1390.3
7.5°	1342.9	1340.0	1342.5	1337.4	1333.2
10°	1260.7	1256.9	1255.7	1248.1	1248.1
12.5°	1159.2	1157.9	1158.8	1155.0	1149.1
15°	1040.1	1043.0	1049.7	1045.5	1038.4
17.5°	913.9	918.0	923.9	922.7	913.0
20°	773.8	785.9	794.3	786.4	772.5
22.5°	614.4	640.4	661.8	645.0	622.4
25°	473.9	496.6	534.3	505.8	483.1
27.5°	359.4	375.8	410.2	382.1	366.5
30°	263.4	273.4	297.3	278.9	268.0
32.5°	188.3	195.4	205.5	194.6	189.1
35°	131.7	135.5	140.1	135.9	132.1
37.5°	92.7	93.9	97.3	93.9	92.3
40°	65.0	65.4	67.9	65.8	65.0
42.5°	47.0	47.0	48.2	47.4	47.0
45°	33.6	34.0	34.8	34.4	34.0
47.5°	23.9	24.7	24.7	25.2	23.5
50°	14.3	17.6	18.0	17.6	14.3
52.5°	7.5	10.5	13.0	10.5	7.5
55°	4.6	6.3	8.8	6.3	5.0
57.5°	4.6	4.6	5.9	5.0	4.6
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.2	4.6	4.6	4.6	4.2
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.8
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	1.7	2.1	2.1
82.5°	1.3	1.3	1.3	1.3	1.3
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)