

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: P283919

Luminaire Tested: **LDA2B109027D010 EU2B10WFL559027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283919
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 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: 722.1 lumens
Efficiency: N/A
Efficacy: 72.2 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

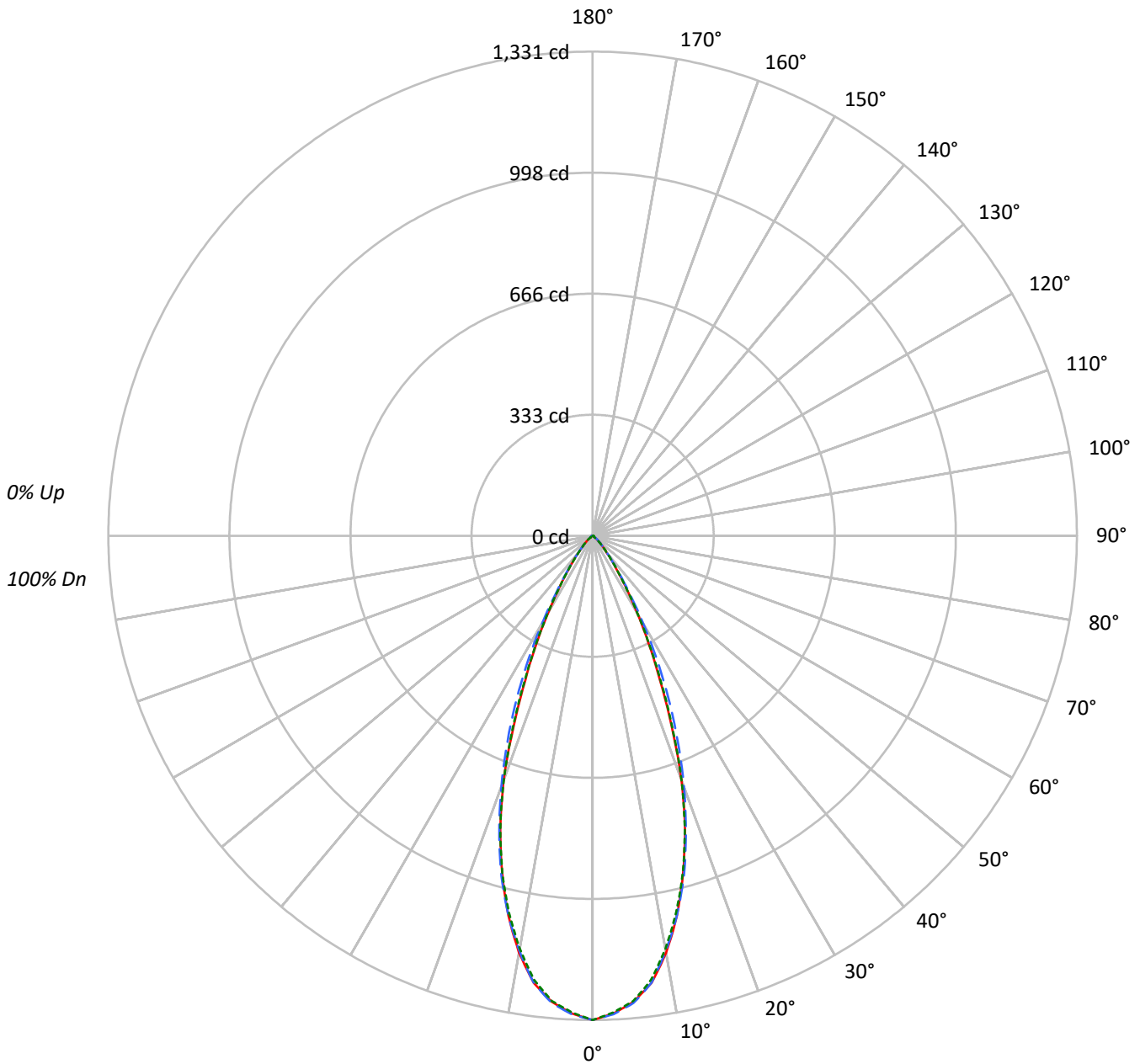
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	656763	656763	656763
5°	637035	638571	635698
10°	583082	580778	577271
15°	490488	495034	489671
20°	375078	385053	374448
25°	238159	268535	242841
30°	138547	156379	140940
35°	73238	77875	73479
40°	38642	40381	38642
45°	21629	22397	21908
50°	10131	12741	10131
55°	3699	6967	3957
60°	4243	4243	4243
65°	4553	5020	4553
70°	5626	5049	5626
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	16.5
10°-20°	264.6	36.6
20°-30°	213.7	29.6
30°-40°	84.5	11.7
40°-50°	25.9	3.6
50°-60°	6.7	0.9
60°-70°	4.1	0.6
70°-80°	3.0	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°	597.1	82.7
0°-40°	681.5	94.4
0°-60°	714.2	98.9
0°-90°	722.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1286	1289	1289	1287	1284	119
15°	960	963	969	965	959	264
25°	438	458	493	467	446	204
35°	122	125	129	126	122	81
45°	31	31	32	32	31	25
55°	4	6	8	6	5	5
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°	1331.2	1331.2	1331.2	1331.2	1331.2
2.5°	1314.6	1315.3	1316.5	1315.0	1311.1
5°	1286.3	1288.6	1289.4	1286.7	1283.6
7.5°	1239.8	1237.1	1239.5	1234.8	1230.9
10°	1163.9	1160.5	1159.3	1152.3	1152.3
12.5°	1070.2	1069.1	1069.9	1066.4	1061.0
15°	960.3	963.0	969.2	965.3	958.7
17.5°	843.7	847.6	853.0	851.9	843.0
20°	714.4	725.6	733.4	726.0	713.2
22.5°	567.3	591.3	611.0	595.5	574.6
25°	437.5	458.5	493.3	467.0	446.1
27.5°	331.8	346.9	378.7	352.7	338.4
30°	243.2	252.5	274.5	257.5	247.4
32.5°	173.9	180.4	189.7	179.7	174.6
35°	121.6	125.1	129.3	125.5	122.0
37.5°	85.6	86.7	89.8	86.7	85.2
40°	60.0	60.4	62.7	60.8	60.0
42.5°	43.4	43.4	44.5	43.8	43.4
45°	31.0	31.4	32.1	31.8	31.4
47.5°	22.1	22.8	22.8	23.2	21.7
50°	13.2	16.3	16.6	16.3	13.2
52.5°	7.0	9.7	12.0	9.7	7.0
55°	4.3	5.8	8.1	5.8	4.6
57.5°	4.3	4.3	5.4	4.6	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.9	4.3	4.3	4.3	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.1	3.5	3.5
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.5	1.9	1.9
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)