

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: P283927

Luminaire Tested: **LDA2B109030D010 EU2B10WFL559030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283927  
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: LDA2B109030D010 EU2B10WFL559030 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: 737.4 lumens  
Efficiency: N/A  
Efficacy: 73.7 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

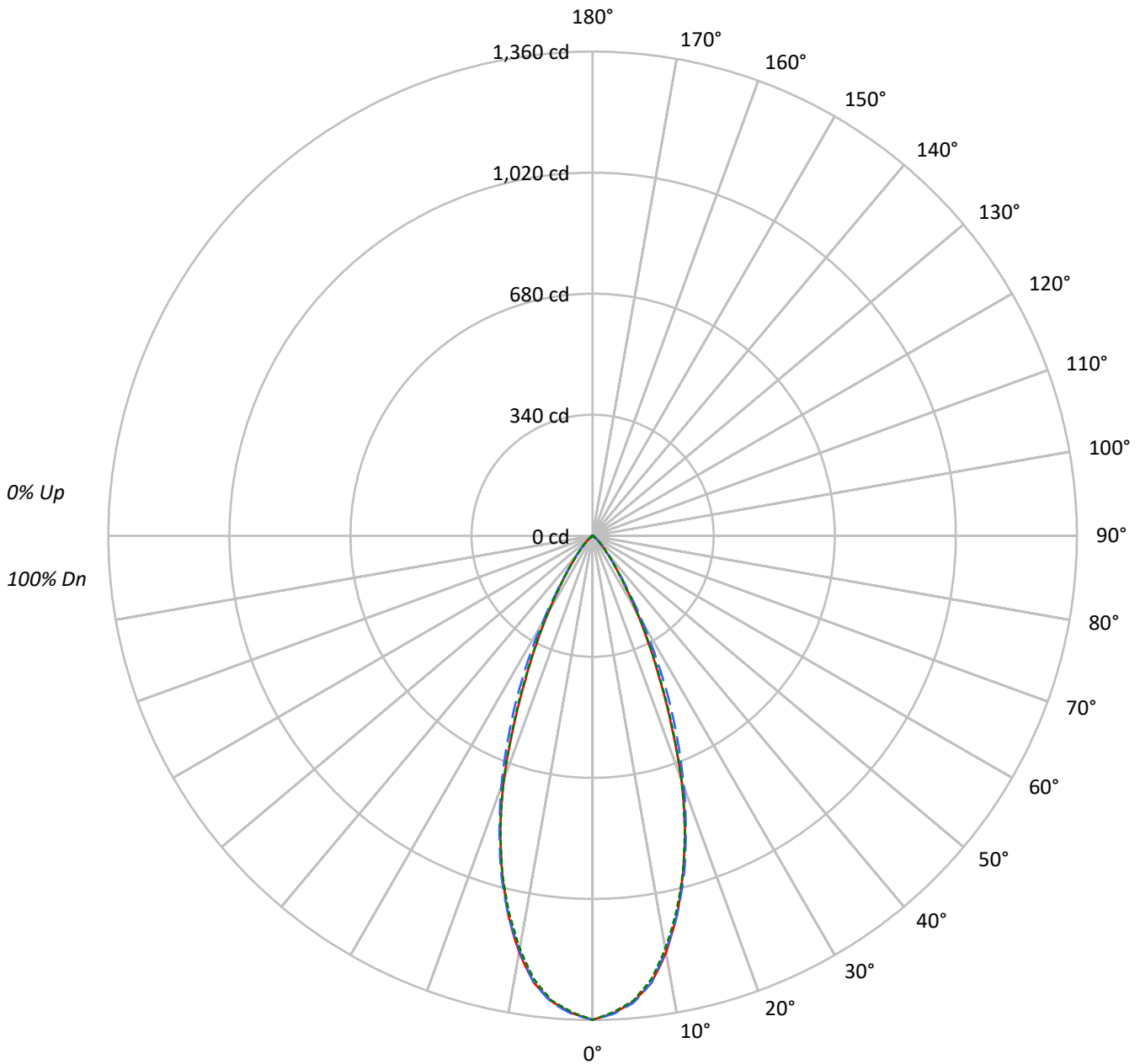
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	670725	670725	670725
5°	650556	652140	649169
10°	595456	593102	589545
15°	500857	505505	500091
20°	383058	393191	382428
25°	243222	274251	247958
30°	141453	159740	143959
35°	74804	79562	75045
40°	39480	41283	39480
45°	22048	22885	22327
50°	10285	13048	10285
55°	3699	7139	4043
60°	4243	4243	4243
65°	4670	5020	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°	121.3	16.5
10°-20°	270.2	36.6
20°-30°	218.2	29.6
30°-40°	86.3	11.7
40°-50°	26.5	3.6
50°-60°	6.8	0.9
60°-70°	4.1	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°	609.8	82.7
0°-40°	696.0	94.4
0°-60°	729.3	98.9
0°-90°	737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1314	1316	1317	1314	1311	122
15°	981	983	990	986	979	269
25°	447	468	504	477	456	208
35°	124	128	132	128	125	83
45°	32	32	33	32	32	26
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°	1359.5	1359.5	1359.5	1359.5	1359.5
2.5°	1342.5	1343.2	1344.4	1342.9	1338.9
5°	1313.6	1316.0	1316.8	1314.0	1310.8
7.5°	1266.1	1263.4	1265.7	1261.0	1257.0
10°	1188.6	1185.1	1183.9	1176.8	1176.8
12.5°	1092.9	1091.8	1092.6	1089.0	1083.5
15°	980.6	983.4	989.7	985.8	979.1
17.5°	861.6	865.6	871.1	869.9	860.8
20°	729.6	741.0	748.9	741.4	728.4
22.5°	579.3	603.8	624.0	608.2	586.8
25°	446.8	468.2	503.8	476.9	455.5
27.5°	338.9	354.3	386.7	360.2	345.6
30°	248.3	257.8	280.4	263.0	252.7
32.5°	177.5	184.3	193.8	183.5	178.3
35°	124.2	127.7	132.1	128.1	124.6
37.5°	87.4	88.6	91.7	88.6	87.0
40°	61.3	61.7	64.1	62.1	61.3
42.5°	44.3	44.3	45.5	44.7	44.3
45°	31.6	32.0	32.8	32.4	32.0
47.5°	22.5	23.3	23.3	23.7	22.1
50°	13.4	16.6	17.0	16.6	13.4
52.5°	7.1	9.9	12.3	9.9	7.1
55°	4.3	5.9	8.3	5.9	4.7
57.5°	4.3	4.3	5.5	4.7	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°	4.0	4.3	4.3	4.3	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)