

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: P283954

Luminaire Tested: **LDA2B109730D010 EU2B10WFL559730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283954
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: LDA2B109730D010 EU2B10WFL559730 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 730.6 lumens
Efficiency: N/A
Efficacy: 73.1 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

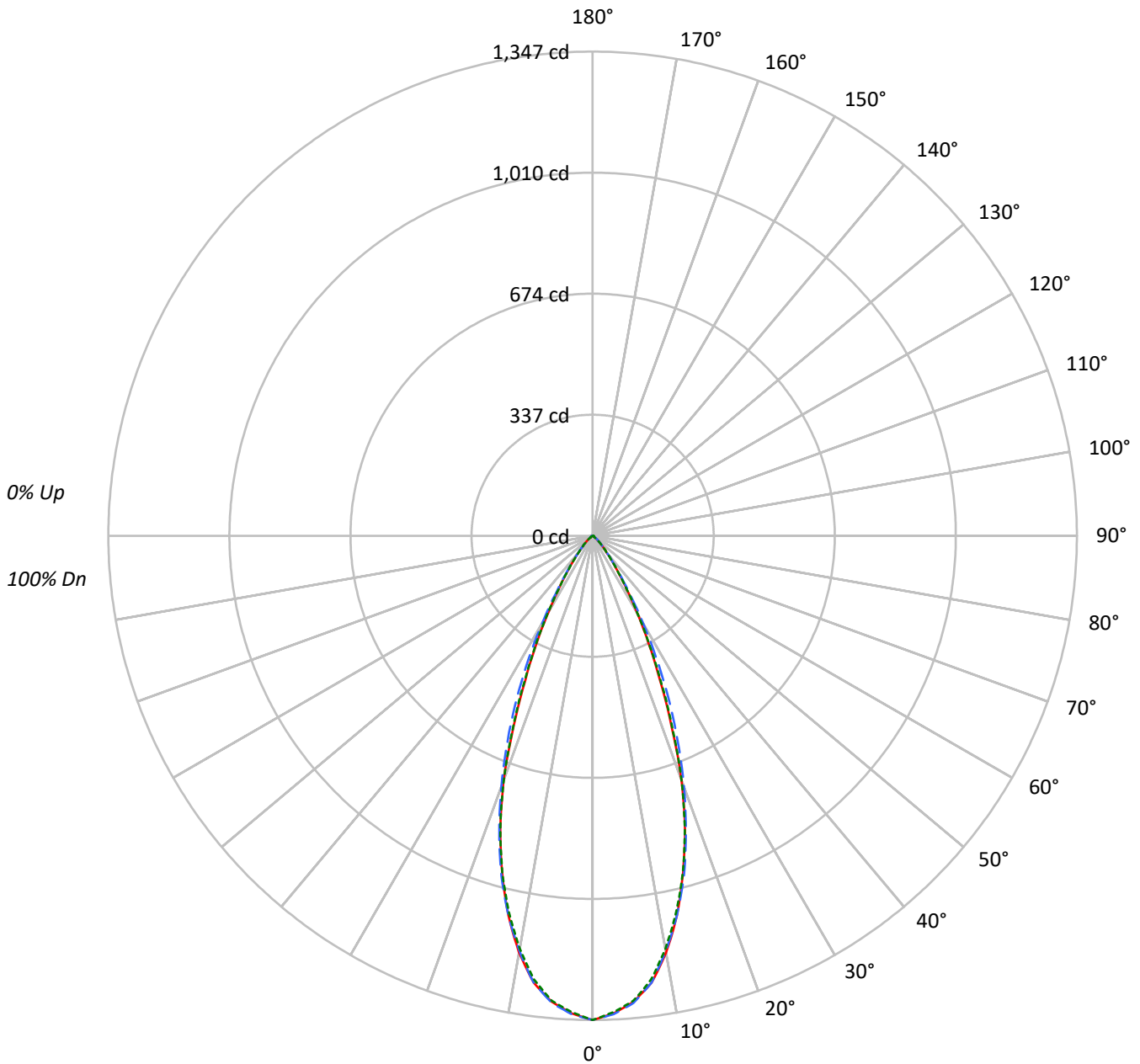
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	664558	664558	664558
5°	644613	646148	643226
10°	590046	587691	584134
15°	496311	500908	495494
20°	379540	389621	378910
25°	240990	271747	245726
30°	140200	158259	142649
35°	74081	78839	74322
40°	39093	40896	39093
45°	21839	22676	22118
50°	10208	12895	10208
55°	3699	7053	4043
60°	4243	4243	4243
65°	4553	5020	4553
70°	5626	5049	5626
75°	5147	5147	5147
80°	5682	4546	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	16.5
10°-20°	267.7	36.6
20°-30°	216.2	29.6
30°-40°	85.5	11.7
40°-50°	26.2	3.6
50°-60°	6.8	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°	604.2	82.7
0°-40°	689.6	94.4
0°-60°	722.6	98.9
0°-90°	730.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	730.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1302	1304	1305	1302	1299	120
15°	972	974	981	977	970	267
25°	443	464	499	472	451	206
35°	123	127	131	127	123	82
45°	31	32	32	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°	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1330.2	1330.9	1332.1	1330.6	1326.6
5°	1301.6	1303.9	1304.7	1302.0	1298.8
7.5°	1254.5	1251.8	1254.2	1249.5	1245.5
10°	1177.8	1174.2	1173.1	1166.0	1166.0
12.5°	1082.9	1081.8	1082.5	1079.0	1073.5
15°	971.7	974.4	980.7	976.8	970.1
17.5°	853.7	857.7	863.1	862.0	853.0
20°	722.9	734.2	742.1	734.6	721.7
22.5°	574.0	598.3	618.3	602.6	581.4
25°	442.7	463.9	499.2	472.5	451.4
27.5°	335.8	351.1	383.2	356.9	342.4
30°	246.1	255.5	277.8	260.5	250.4
32.5°	175.9	182.6	192.0	181.8	176.7
35°	123.0	126.6	130.9	126.9	123.4
37.5°	86.6	87.8	90.9	87.8	86.2
40°	60.7	61.1	63.5	61.5	60.7
42.5°	43.9	43.9	45.1	44.3	43.9
45°	31.3	31.7	32.5	32.1	31.7
47.5°	22.3	23.1	23.1	23.5	21.9
50°	13.3	16.5	16.8	16.5	13.3
52.5°	7.1	9.8	12.1	9.8	7.1
55°	4.3	5.9	8.2	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°	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°	2.4	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)