

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: P283921

Luminaire Tested: **LDA2B109027D010 EU2B10WFL559027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283921
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 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: 706.8 lumens
Efficiency: N/A
Efficacy: 70.7 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

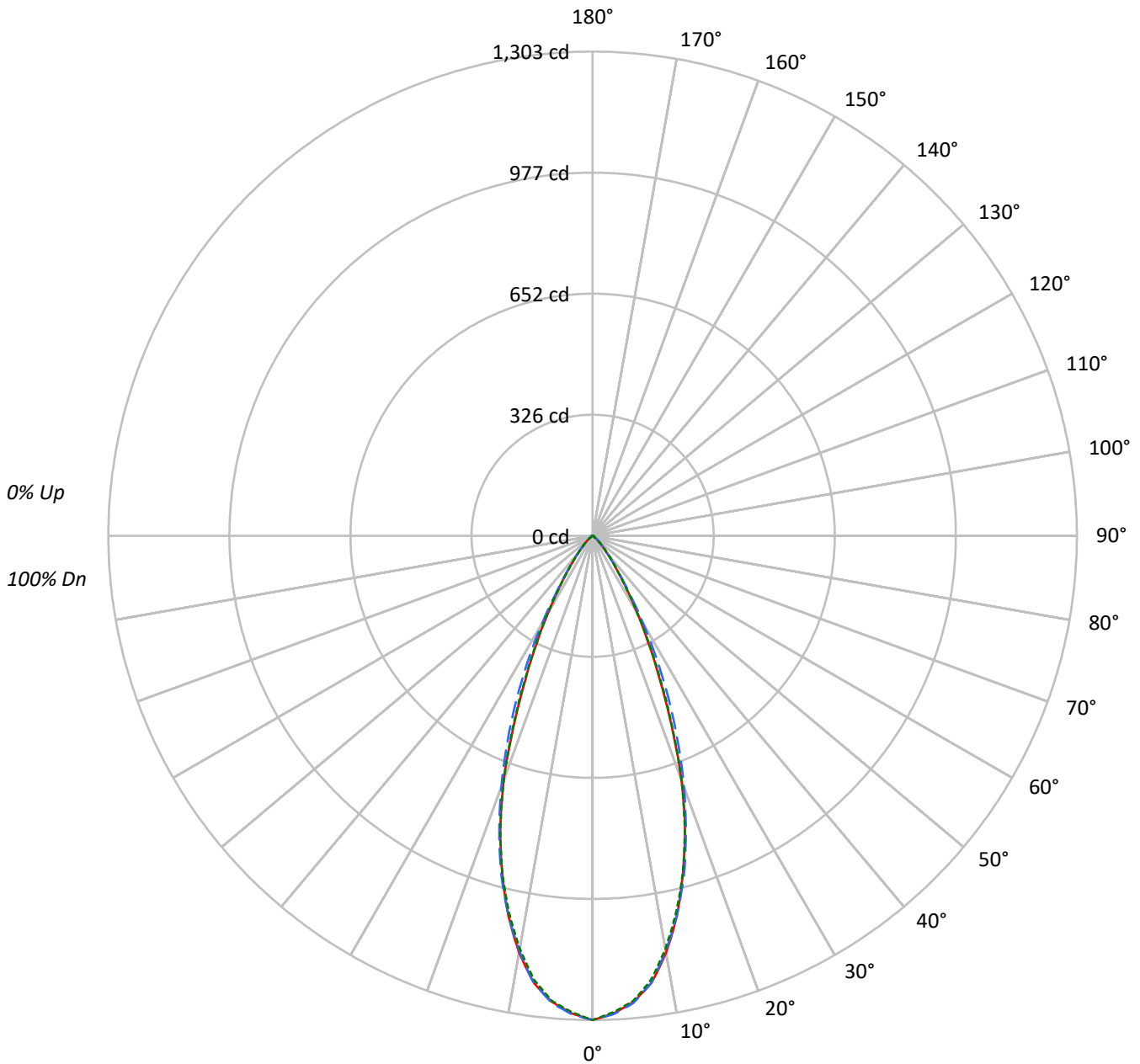
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	642850	642850	642850
5°	623565	625050	622228
10°	570758	568504	565047
15°	480120	484563	479303
20°	367150	376863	366520
25°	233151	262874	237670
30°	135585	153074	137978
35°	71672	76249	71913
40°	37805	39544	37805
45°	21141	21978	21420
50°	9901	12511	9901
55°	3613	6881	3871
60°	4144	4144	4144
65°	4436	4903	4436
70°	5481	4904	5481
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	16.5
10°-20°	259.0	36.6
20°-30°	209.2	29.6
30°-40°	82.7	11.7
40°-50°	25.4	3.6
50°-60°	6.5	0.9
60°-70°	4.0	0.6
70°-80°	2.9	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°	584.5	82.7
0°-40°	667.1	94.4
0°-60°	699.0	98.9
0°-90°	706.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1259	1261	1262	1260	1256	117
15°	940	943	949	945	938	258
25°	428	449	483	457	437	199
35°	119	122	127	123	119	80
45°	30	31	32	31	31	25
55°	4	6	8	6	4	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°	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1286.7	1287.5	1288.6	1287.1	1283.3
5°	1259.1	1261.4	1262.1	1259.5	1256.4
7.5°	1213.6	1210.9	1213.2	1208.7	1204.9
10°	1139.3	1135.9	1134.8	1127.9	1127.9
12.5°	1047.6	1046.5	1047.2	1043.8	1038.5
15°	940.0	942.6	948.7	944.9	938.4
17.5°	825.9	829.7	835.0	833.8	825.1
20°	699.3	710.3	717.8	710.6	698.1
22.5°	555.3	578.8	598.1	582.9	562.5
25°	428.3	448.8	482.9	457.1	436.6
27.5°	324.8	339.6	370.7	345.3	331.3
30°	238.0	247.1	268.7	252.0	242.2
32.5°	170.2	176.6	185.7	175.9	170.9
35°	119.0	122.4	126.6	122.8	119.4
37.5°	83.8	84.9	87.9	84.9	83.4
40°	58.7	59.1	61.4	59.5	58.7
42.5°	42.4	42.4	43.6	42.8	42.4
45°	30.3	30.7	31.5	31.1	30.7
47.5°	21.6	22.4	22.4	22.7	21.2
50°	12.9	15.9	16.3	15.9	12.9
52.5°	6.8	9.5	11.7	9.5	6.8
55°	4.2	5.7	8.0	5.7	4.5
57.5°	4.2	4.2	5.3	4.5	4.2
60°	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.8	4.2	4.2	4.2	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.4	3.8	3.8
72.5°	3.4	3.4	3.0	3.4	3.4
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°	1.1	1.1	1.1	1.1	1.1
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)