

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: P283910

Luminaire Tested: **LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283910
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: LDA2B109024D010 EU2B10WFL559024 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 715.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

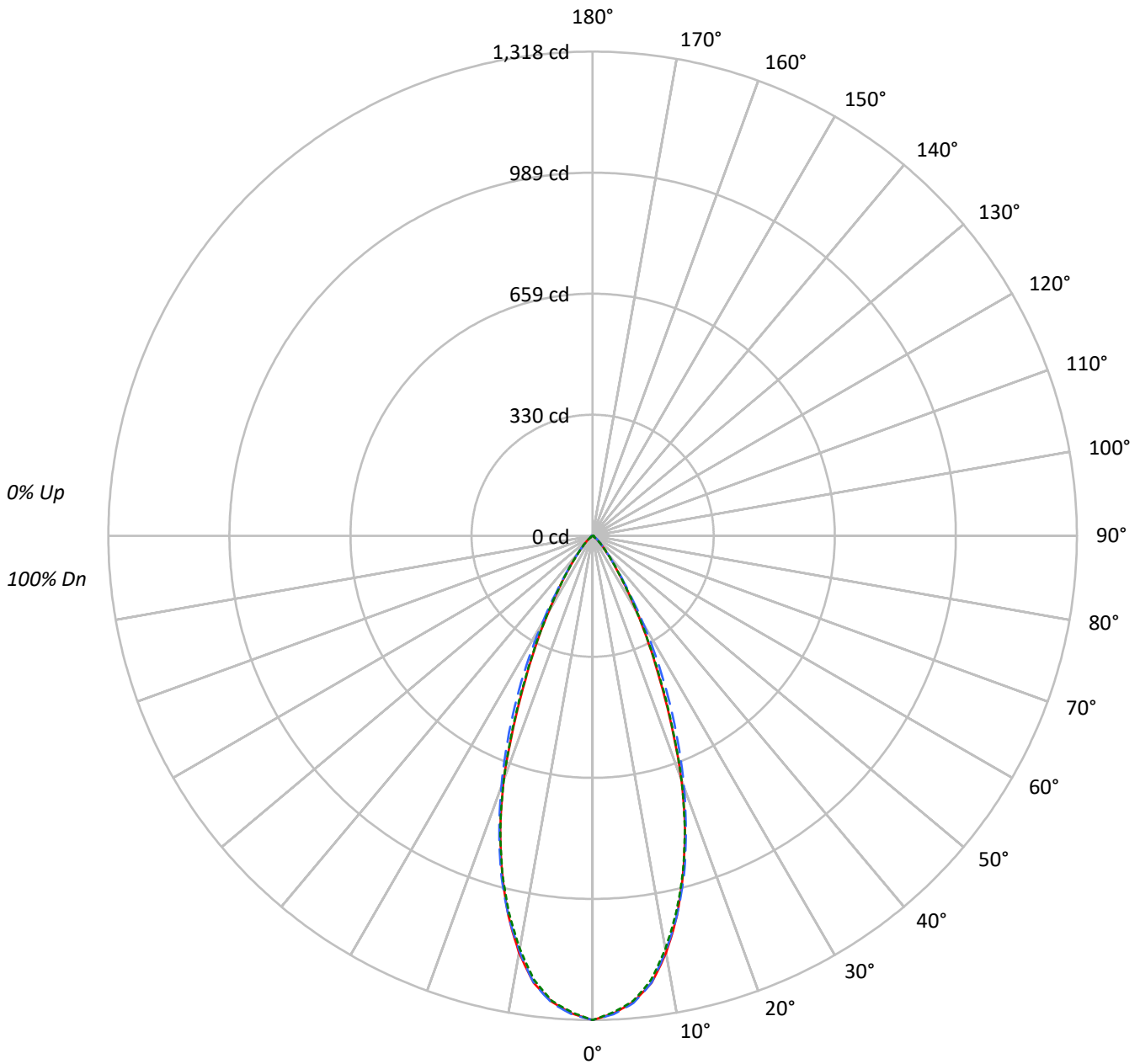
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	650350	650350	650350
5°	630795	632331	629458
10°	577371	575067	571610
15°	485687	490182	484870
20°	371402	381273	370772
25°	235873	265922	240446
30°	137180	154840	139573
35°	72515	77153	72756
40°	38256	39995	38256
45°	21420	22187	21699
50°	9978	12664	9978
55°	3613	6967	3957
60°	4144	4144	4144
65°	4436	4903	4436
70°	5481	5049	5481
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	16.5
10°-20°	262.0	36.6
20°-30°	211.6	29.6
30°-40°	83.6	11.7
40°-50°	25.7	3.6
50°-60°	6.6	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°	591.2	82.7
0°-40°	674.9	94.4
0°-60°	707.2	98.9
0°-90°	715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1274	1276	1277	1274	1271	118
15°	951	954	960	956	949	261
25°	433	454	488	462	442	202
35°	120	124	128	124	121	81
45°	31	31	32	31	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°	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1301.7	1302.5	1303.6	1302.1	1298.2
5°	1273.7	1276.0	1276.8	1274.1	1271.0
7.5°	1227.7	1225.0	1227.3	1222.7	1218.9
10°	1152.5	1149.1	1147.9	1141.0	1141.0
12.5°	1059.8	1058.6	1059.4	1055.9	1050.6
15°	950.9	953.6	959.7	955.9	949.3
17.5°	835.5	839.3	844.7	843.5	834.7
20°	707.4	718.5	726.2	718.9	706.2
22.5°	561.7	585.5	605.0	589.7	569.0
25°	433.3	454.0	488.5	462.4	441.7
27.5°	328.6	343.5	375.0	349.3	335.1
30°	240.8	250.0	271.8	255.0	245.0
32.5°	172.2	178.7	187.9	177.9	172.9
35°	120.4	123.8	128.1	124.2	120.8
37.5°	84.7	85.9	89.0	85.9	84.4
40°	59.4	59.8	62.1	60.2	59.4
42.5°	42.9	42.9	44.1	43.3	42.9
45°	30.7	31.1	31.8	31.4	31.1
47.5°	21.9	22.6	22.6	23.0	21.5
50°	13.0	16.1	16.5	16.1	13.0
52.5°	6.9	9.6	11.9	9.6	6.9
55°	4.2	5.8	8.1	5.8	4.6
57.5°	4.2	4.2	5.4	4.6	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	3.5	3.8	3.8
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)