

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: P283546

Luminaire Tested: **LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 923.6 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

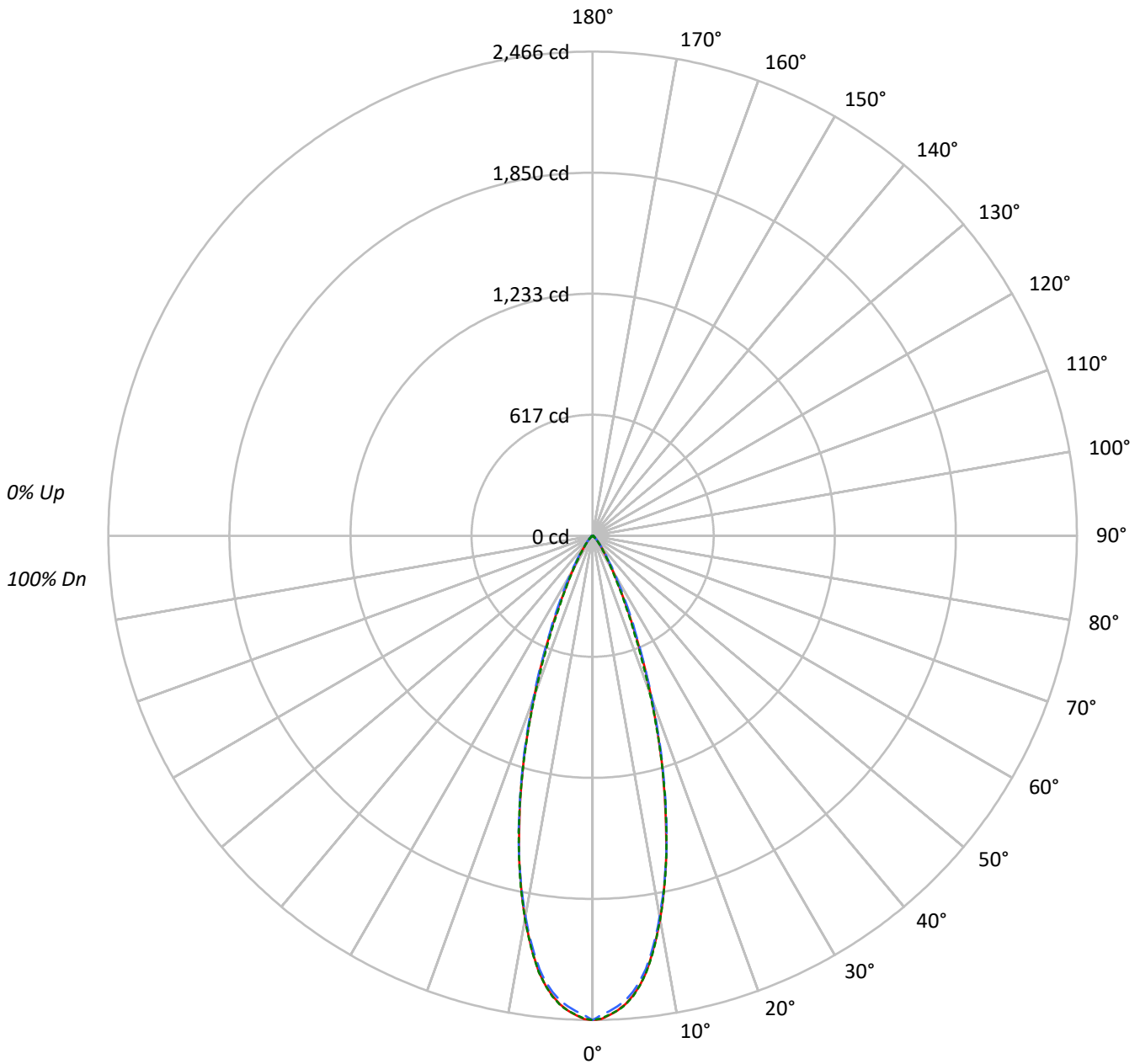
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1216877	1216877	1216877
5°	1164572	1155855	1166355
10°	992176	985914	993178
15°	731263	736013	733664
20°	456509	464962	446428
25°	235819	253021	223952
30°	113082	129603	107727
35°	58361	64625	54627
40°	32717	34392	31043
45°	19885	19885	19187
50°	10362	12741	10362
55°	5333	8429	5763
60°	6118	6118	6118
65°	6654	6654	6654
70°	8222	7501	8222
75°	7815	7815	7815
80°	7387	7387	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	23.0
10°-20°	389.7	42.2
20°-30°	211.3	22.9
30°-40°	67.8	7.3
40°-50°	23.1	2.5
50°-60°	8.1	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.5
80°-90°	1.2	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°	813.1	88.0
0°-40°	880.9	95.4
0°-60°	912.2	98.8
0°-90°	923.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	923.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2352	2337	2334	2357	2355	213
15°	1432	1444	1441	1448	1436	388
25°	433	453	465	433	411	208
35°	97	101	107	97	91	65
45°	28	29	28	28	28	23
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
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°	2466.5	2466.5	2466.5	2466.5	2466.5
1°	2462.4	2444.7	2442.1	2464.9	2459.8
2°	2442.7	2426.1	2423.5	2446.3	2441.6
3°	2420.9	2405.9	2400.7	2424.5	2421.4
4°	2391.9	2377.9	2373.2	2397.1	2394.5
5°	2351.5	2337.0	2333.9	2357.2	2355.1
6°	2301.7	2289.8	2284.1	2307.4	2303.3
7°	2239.5	2228.7	2222.4	2239.5	2241.6
8°	2158.7	2153.5	2146.3	2163.4	2163.4
9°	2072.7	2068.0	2060.3	2075.8	2075.8
10°	1980.5	1977.3	1968.0	1982.5	1982.5
11°	1879.4	1877.9	1871.1	1883.0	1883.0
12°	1773.2	1776.8	1770.6	1781.0	1777.3
13°	1667.0	1665.4	1665.9	1673.7	1668.0
14°	1546.7	1556.1	1557.6	1562.3	1553.5
15°	1431.7	1443.6	1441.0	1447.8	1436.4
16°	1314.1	1327.6	1327.0	1328.6	1317.7
17°	1204.2	1212.0	1212.5	1211.0	1197.5
18°	1087.1	1098.0	1098.0	1095.4	1079.4
19°	972.6	980.9	986.6	980.9	962.2
20°	869.5	875.2	885.6	871.0	850.3
21°	770.5	775.7	784.5	767.4	744.6
22°	675.7	682.4	690.7	671.0	647.2
23°	587.1	602.6	605.7	578.8	558.6
24°	505.7	523.4	528.5	501.1	479.8
25°	433.2	452.9	464.8	432.7	411.4
26°	370.5	389.7	404.2	372.0	351.8
27°	315.6	335.8	350.8	320.7	301.6
28°	268.4	288.1	303.6	275.7	257.5
29°	233.2	244.6	260.1	236.8	220.2
30°	198.5	210.9	227.5	203.6	189.1
32.5°	136.3	143.0	156.0	141.5	130.1
35°	96.9	101.0	107.3	97.4	90.7
37.5°	68.9	71.0	74.6	68.9	65.3
40°	50.8	51.8	53.4	50.3	48.2
42.5°	37.8	38.3	38.3	37.3	36.3
45°	28.5	29.0	28.5	28.5	27.5
47.5°	20.7	22.3	21.8	21.8	20.2
50°	13.5	16.6	16.6	16.1	13.5
52.5°	8.3	11.4	13.0	11.4	8.8
55°	6.2	7.8	9.8	7.8	6.7
57.5°	6.2	6.2	7.3	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.2	5.7	5.7
72.5°	5.2	5.2	4.7	5.2	4.7
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.7	6.2	5.7	6.2	5.7



(END OF REPORT)