

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: P283567

Luminaire Tested: **LDA2B108040D010 EU2B10FL408040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283567
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: LDA2B108040D010 EU2B10FL408040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 925.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

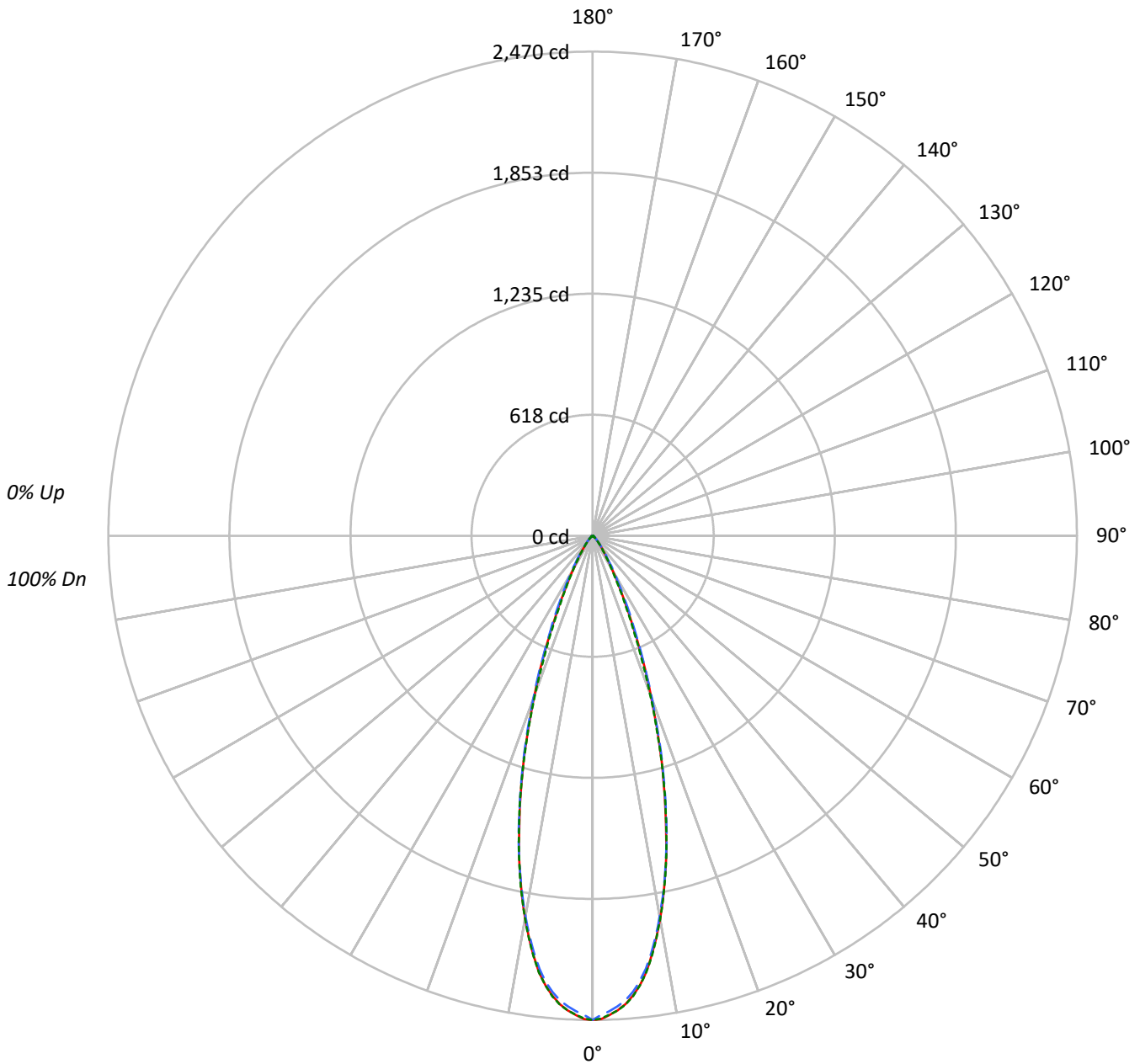
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1218702	1218702	1218702
5°	1166305	1157589	1168138
10°	993629	987417	994681
15°	732387	737137	734736
20°	457191	465644	447111
25°	236145	253402	224333
30°	113253	129774	107898
35°	58422	64685	54687
40°	32782	34456	31107
45°	19885	19885	19187
50°	10362	12741	10362
55°	5333	8515	5763
60°	6118	6118	6118
65°	6654	6654	6654
70°	8222	7501	8222
75°	8006	8006	8006
80°	7387	7387	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	23.0
10°-20°	390.3	42.2
20°-30°	211.6	22.9
30°-40°	67.9	7.3
40°-50°	23.2	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°	814.4	88.0
0°-40°	882.3	95.4
0°-60°	913.5	98.8
0°-90°	925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2355	2340	2337	2361	2359	213
15°	1434	1446	1443	1450	1438	389
25°	434	454	466	433	412	208
35°	97	101	107	98	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°	2470.2	2470.2	2470.2	2470.2	2470.2
1°	2466.1	2448.4	2445.8	2468.7	2463.5
2°	2446.4	2429.8	2427.2	2450.0	2445.3
3°	2424.6	2409.5	2404.3	2428.2	2425.1
4°	2395.5	2381.5	2376.8	2400.7	2398.1
5°	2355.0	2340.5	2337.4	2360.7	2358.7
6°	2305.2	2293.3	2287.6	2310.9	2306.8
7°	2242.9	2232.0	2225.8	2242.9	2245.0
8°	2162.0	2156.8	2149.5	2166.6	2166.6
9°	2075.8	2071.2	2063.4	2078.9	2078.9
10°	1983.4	1980.3	1971.0	1985.5	1985.5
11°	1882.3	1880.7	1873.9	1885.9	1885.9
12°	1775.9	1779.5	1773.3	1783.7	1780.0
13°	1669.5	1667.9	1668.4	1676.2	1670.5
14°	1549.1	1558.4	1560.0	1564.7	1555.8
15°	1433.9	1445.8	1443.2	1450.0	1438.5
16°	1316.1	1329.6	1329.0	1330.6	1319.7
17°	1206.1	1213.8	1214.4	1212.8	1199.3
18°	1088.8	1099.7	1099.7	1097.1	1081.0
19°	974.1	982.4	988.1	982.4	963.7
20°	870.8	876.5	886.9	872.4	851.6
21°	771.7	776.9	785.7	768.6	745.7
22°	676.7	683.5	691.8	672.0	648.2
23°	588.0	603.5	606.7	579.7	559.4
24°	506.5	524.1	529.3	501.8	480.6
25°	433.8	453.6	465.5	433.3	412.1
26°	371.1	390.3	404.8	372.6	352.4
27°	316.0	336.3	351.3	321.2	302.0
28°	268.8	288.5	304.1	276.1	257.9
29°	233.5	244.9	260.5	237.2	220.6
30°	198.8	211.2	227.8	203.9	189.4
32.5°	136.5	143.2	156.2	141.7	130.3
35°	97.0	101.2	107.4	97.6	90.8
37.5°	69.0	71.1	74.7	69.0	65.4
40°	50.9	51.9	53.5	50.3	48.3
42.5°	37.9	38.4	38.4	37.4	36.3
45°	28.5	29.1	28.5	28.5	27.5
47.5°	20.8	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	9.9	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



TEST NUMBER: P283567

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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°	4.2	4.2	4.2	4.2	4.2
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)