

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: P283572

Luminaire Tested: **LDA2B108050D010 EU2B10FL408050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283572
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: LDA2B108050D010 EU2B10FL408050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 905.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

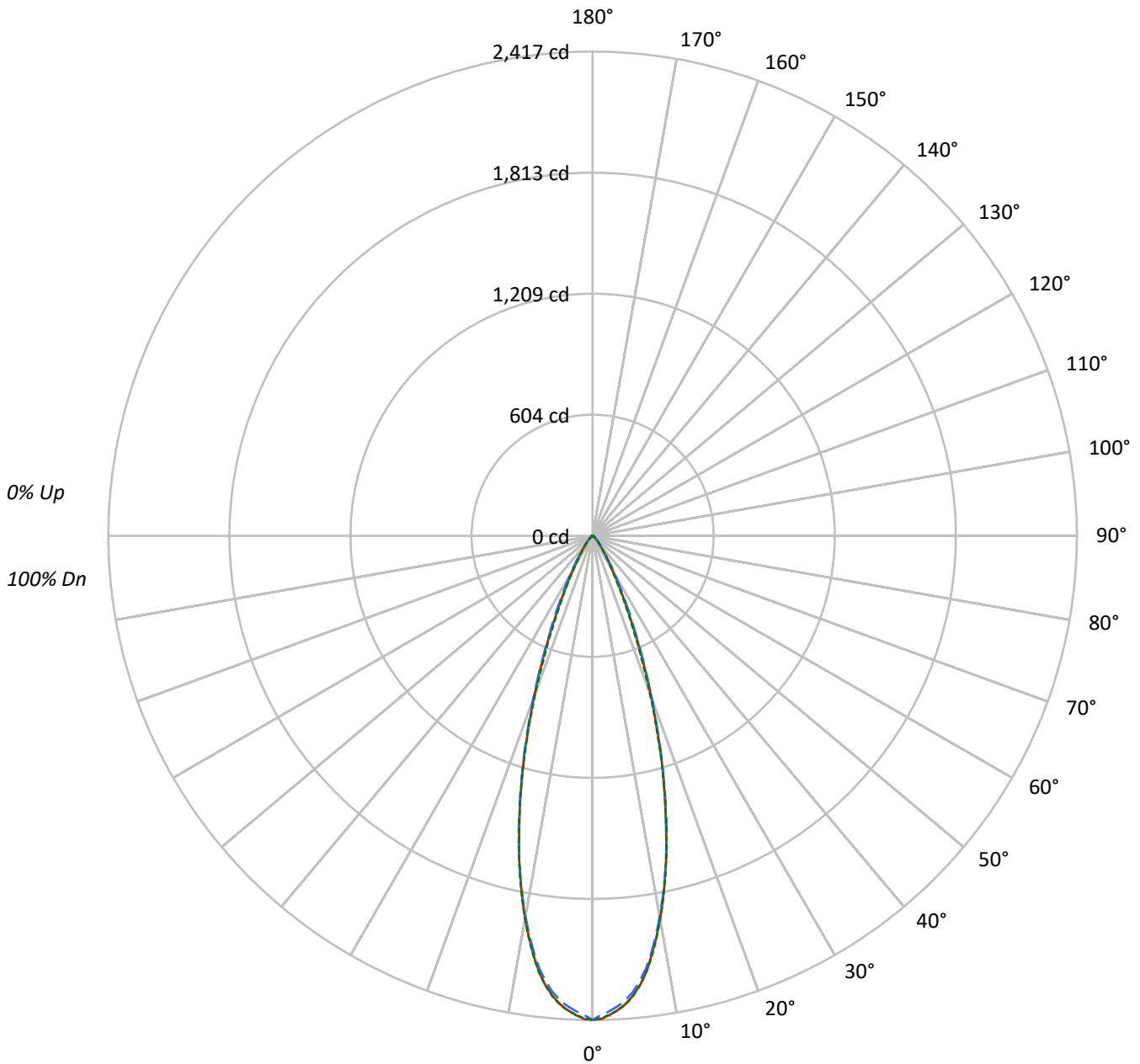
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1192357	1192357	1192357
5°	1141097	1132529	1142880
10°	972188	966076	973190
15°	716553	721201	718852
20°	447321	455564	437451
25°	231083	247904	219433
30°	110804	126983	105563
35°	57157	63300	53543
40°	32073	33683	30399
45°	19466	19466	18769
50°	10131	12434	10131
55°	5247	8257	5677
60°	6019	6019	6019
65°	6537	6537	6537
70°	8078	7357	8078
75°	7815	7815	7815
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	23.0
10°-20°	381.8	42.2
20°-30°	207.0	22.9
30°-40°	66.4	7.3
40°-50°	22.6	2.5
50°-60°	7.9	0.9
60°-70°	5.8	0.6
70°-80°	4.2	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°	796.7	88.0
0°-40°	863.2	95.4
0°-60°	893.8	98.8
0°-90°	905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2304	2290	2287	2310	2308	208
15°	1403	1415	1412	1419	1407	380
25°	424	444	455	424	403	203
35°	95	99	105	96	89	64
45°	28	28	28	28	27	22
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°	2416.8	2416.8	2416.8	2416.8	2416.8
1°	2412.8	2395.5	2393.0	2415.3	2410.2
2°	2393.5	2377.2	2374.7	2397.0	2392.5
3°	2372.1	2357.4	2352.3	2375.7	2372.7
4°	2343.7	2330.0	2325.4	2348.8	2346.3
5°	2304.1	2289.9	2286.8	2309.7	2307.7
6°	2255.4	2243.7	2238.1	2261.0	2256.9
7°	2194.4	2183.8	2177.7	2194.4	2196.5
8°	2115.2	2110.2	2103.0	2119.8	2119.8
9°	2030.9	2026.4	2018.8	2034.0	2034.0
10°	1940.6	1937.5	1928.4	1942.6	1942.6
11°	1841.6	1840.0	1833.4	1845.1	1845.1
12°	1737.5	1741.0	1734.9	1745.1	1741.5
13°	1633.4	1631.9	1632.4	1640.0	1634.4
14°	1515.6	1524.7	1526.3	1530.8	1522.2
15°	1402.9	1414.6	1412.0	1418.6	1407.4
16°	1287.6	1300.8	1300.3	1301.8	1291.2
17°	1180.0	1187.6	1188.1	1186.6	1173.4
18°	1065.2	1075.9	1075.9	1073.4	1057.6
19°	953.0	961.1	966.7	961.1	942.9
20°	852.0	857.6	867.7	853.5	833.2
21°	755.0	760.1	768.7	752.0	729.6
22°	662.1	668.7	676.8	657.5	634.2
23°	575.3	590.5	593.5	567.1	547.3
24°	495.6	512.8	517.9	491.0	470.2
25°	424.5	443.8	455.4	424.0	403.1
26°	363.0	381.8	396.0	364.6	344.8
27°	309.2	329.0	343.7	314.3	295.5
28°	263.0	282.3	297.5	270.1	252.3
29°	228.5	239.7	254.9	232.0	215.8
30°	194.5	206.6	222.9	199.5	185.3
32.5°	133.5	140.1	152.8	138.6	127.4
35°	94.9	99.0	105.1	95.5	88.9
37.5°	67.5	69.6	73.1	67.5	64.0
40°	49.8	50.8	52.3	49.3	47.2
42.5°	37.1	37.6	37.6	36.6	35.5
45°	27.9	28.4	27.9	27.9	26.9
47.5°	20.3	21.8	21.3	21.3	19.8
50°	13.2	16.2	16.2	15.7	13.2
52.5°	8.1	11.2	12.7	11.2	8.6
55°	6.1	7.6	9.6	7.6	6.6
57.5°	6.1	6.1	7.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.1	5.6	5.6
72.5°	5.1	5.1	4.6	5.1	4.6
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
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°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	5.6	6.1	5.6



(END OF REPORT)