

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: P283551

Luminaire Tested: **LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283551
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: LDA2B108030D010 EU2B10FL408030 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 921.6 lumens
Efficiency: N/A
Efficacy: 92.2 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

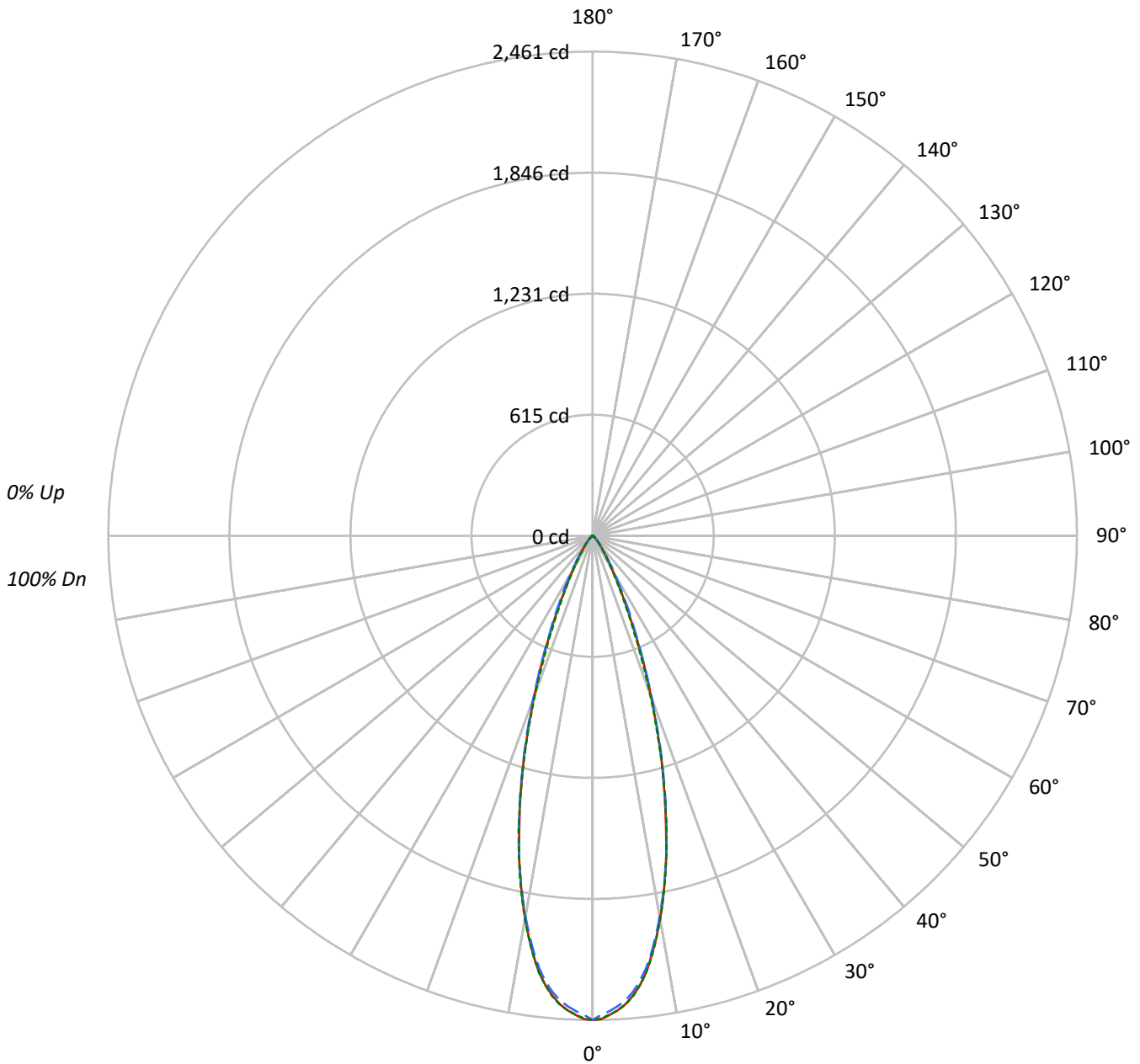
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1214311	1214311	1214311
5°	1162096	1153379	1163878
10°	990072	983810	991074
15°	729731	734481	732080
20°	455511	463964	445483
25°	235329	252476	223516
30°	112798	129319	107500
35°	58241	64444	54507
40°	32653	34327	30978
45°	19815	19815	19117
50°	10285	12664	10285
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°	211.7	23.0
10°-20°	388.9	42.2
20°-30°	210.8	22.9
30°-40°	67.7	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°	811.4	88.0
0°-40°	879.1	95.4
0°-60°	910.2	98.8
0°-90°	921.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2346	2332	2329	2352	2350	212
15°	1429	1441	1438	1445	1433	387
25°	432	452	464	432	411	207
35°	97	101	107	97	90	65
45°	28	29	28	28	27	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°	2461.3	2461.3	2461.3	2461.3	2461.3
1°	2457.1	2439.5	2437.0	2459.7	2454.5
2°	2437.5	2420.9	2418.3	2441.1	2436.4
3°	2415.8	2400.8	2395.6	2419.4	2416.3
4°	2386.8	2372.8	2368.2	2392.0	2389.4
5°	2346.5	2332.0	2328.9	2352.2	2350.1
6°	2296.8	2284.9	2279.3	2302.5	2298.4
7°	2234.8	2223.9	2217.7	2234.8	2236.9
8°	2154.1	2149.0	2141.7	2158.8	2158.8
9°	2068.3	2063.6	2055.9	2071.4	2071.4
10°	1976.3	1973.1	1963.8	1978.3	1978.3
11°	1875.4	1873.9	1867.1	1879.0	1879.0
12°	1769.4	1773.0	1766.8	1777.2	1773.6
13°	1663.4	1661.9	1662.4	1670.1	1664.5
14°	1543.5	1552.8	1554.3	1559.0	1550.2
15°	1428.7	1440.6	1438.0	1444.7	1433.3
16°	1311.3	1324.7	1324.2	1325.8	1314.9
17°	1201.7	1209.4	1209.9	1208.4	1195.0
18°	1084.8	1095.7	1095.7	1093.1	1077.1
19°	970.5	978.8	984.5	978.8	960.2
20°	867.6	873.3	883.7	869.2	848.5
21°	768.9	774.1	782.8	765.8	743.0
22°	674.3	681.0	689.3	669.6	645.8
23°	585.8	601.4	604.5	577.6	557.4
24°	504.7	522.2	527.4	500.0	478.8
25°	432.3	451.9	463.8	431.8	410.6
26°	369.7	388.8	403.3	371.3	351.1
27°	314.9	335.1	350.1	320.1	300.9
28°	267.8	287.5	303.0	275.1	257.0
29°	232.7	244.1	259.6	236.3	219.8
30°	198.0	210.4	227.0	203.2	188.7
32.5°	136.0	142.7	155.6	141.2	129.8
35°	96.7	100.8	107.0	97.2	90.5
37.5°	68.8	70.8	74.5	68.8	65.2
40°	50.7	51.7	53.3	50.2	48.1
42.5°	37.7	38.3	38.3	37.2	36.2
45°	28.4	29.0	28.4	28.4	27.4
47.5°	20.7	22.2	21.7	21.7	20.2
50°	13.4	16.5	16.5	16.0	13.4
52.5°	8.3	11.4	12.9	11.4	8.8
55°	6.2	7.8	9.8	7.8	6.7
57.5°	6.2	6.2	7.2	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)