

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: P283571

Luminaire Tested: **LDA2B108050D010 EU2B10FL408050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283571
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 939.6 lumens
Efficiency: N/A
Efficacy: 94.0 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

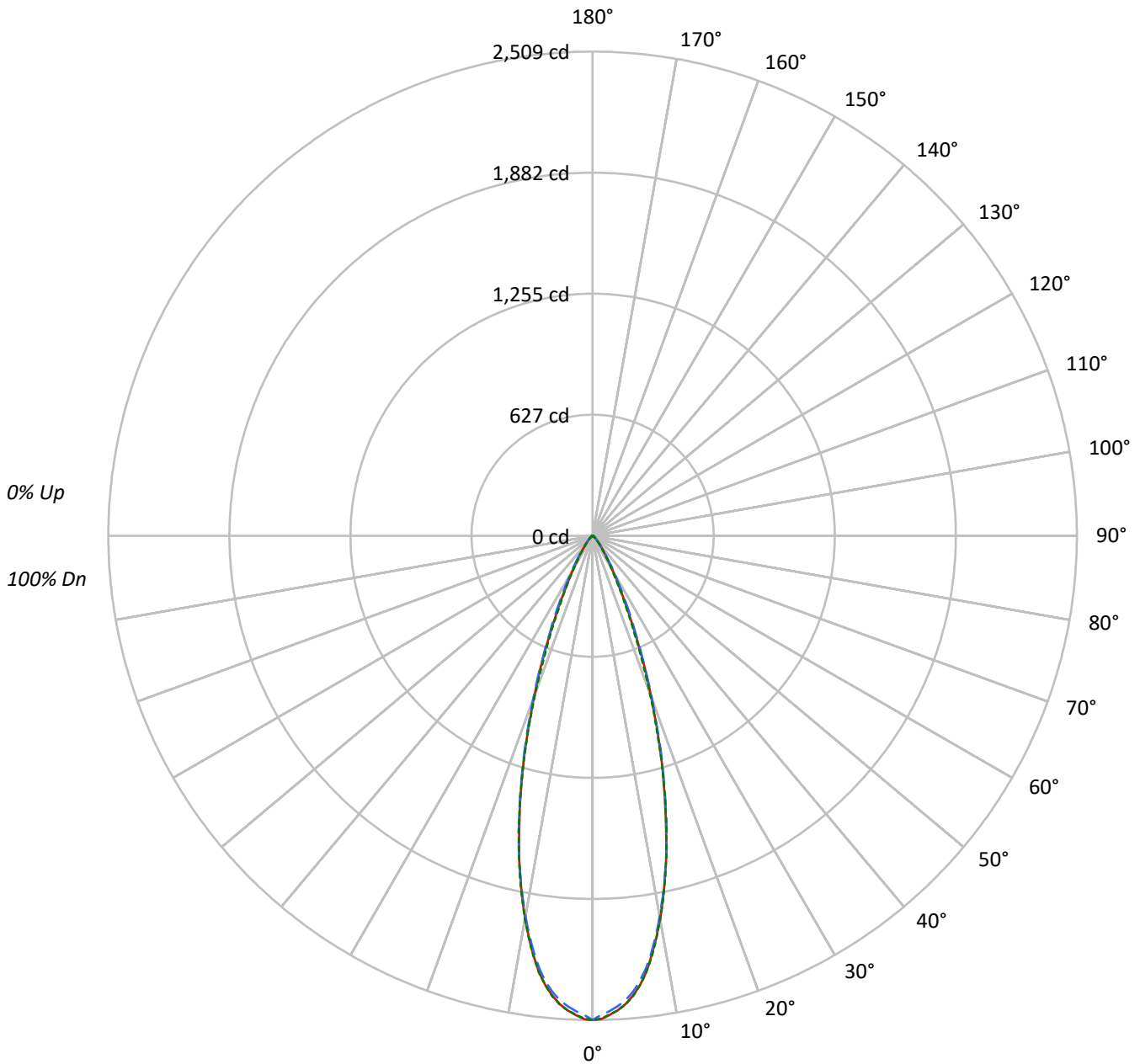
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1237993	1237993	1237993
5°	1184778	1175913	1186610
10°	1009360	1003048	1010412
15°	743981	748834	746382
20°	464437	472995	454199
25°	239901	257430	227871
30°	115019	131825	109607
35°	59385	65709	55591
40°	33297	34971	31558
45°	20234	20234	19466
50°	10515	12971	10515
55°	5419	8602	5935
60°	6216	6216	6216
65°	6771	6771	6771
70°	8366	7645	8366
75°	8006	8006	8006
80°	7387	7387	7387
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	23.0
10°-20°	396.5	42.2
20°-30°	214.9	22.9
30°-40°	69.0	7.3
40°-50°	23.5	2.5
50°-60°	8.2	0.9
60°-70°	6.0	0.6
70°-80°	4.4	0.5
80°-90°	1.3	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°	827.2	88.0
0°-40°	896.2	95.4
0°-60°	928.0	98.8
0°-90°	939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2392	2378	2374	2398	2396	216
15°	1457	1469	1466	1473	1461	395
25°	441	461	473	440	419	211
35°	99	103	109	99	92	66
45°	29	30	29	29	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°	2509.3	2509.3	2509.3	2509.3	2509.3
1°	2505.1	2487.2	2484.5	2507.7	2502.5
2°	2485.1	2468.2	2465.6	2488.8	2484.0
3°	2462.9	2447.6	2442.4	2466.6	2463.5
4°	2433.4	2419.2	2414.4	2438.7	2436.0
5°	2392.3	2377.5	2374.4	2398.1	2396.0
6°	2341.7	2329.6	2323.8	2347.5	2343.3
7°	2278.4	2267.4	2261.0	2278.4	2280.5
8°	2196.2	2190.9	2183.5	2200.9	2200.9
9°	2108.7	2103.9	2096.0	2111.8	2111.8
10°	2014.8	2011.7	2002.2	2016.9	2016.9
11°	1912.0	1910.5	1903.6	1915.7	1915.7
12°	1804.0	1807.7	1801.3	1811.9	1808.2
13°	1695.9	1694.3	1694.8	1702.8	1697.0
14°	1573.6	1583.1	1584.7	1589.4	1580.5
15°	1456.6	1468.7	1466.1	1472.9	1461.3
16°	1336.9	1350.6	1350.1	1351.7	1340.6
17°	1225.1	1233.0	1233.6	1232.0	1218.3
18°	1106.0	1117.1	1117.1	1114.4	1098.1
19°	989.5	997.9	1003.7	997.9	979.0
20°	884.6	890.4	900.9	886.2	865.1
21°	783.9	789.2	798.1	780.7	757.5
22°	687.4	694.3	702.7	682.7	658.4
23°	597.3	613.1	616.3	588.8	568.3
24°	514.5	532.4	537.7	509.8	488.2
25°	440.7	460.7	472.9	440.2	418.6
26°	376.9	396.4	411.2	378.5	357.9
27°	321.0	341.6	356.9	326.3	306.8
28°	273.1	293.1	308.9	280.5	262.0
29°	237.2	248.8	264.6	240.9	224.0
30°	201.9	214.6	231.4	207.2	192.4
32.5°	138.6	145.5	158.7	143.9	132.3
35°	98.6	102.8	109.1	99.1	92.3
37.5°	70.1	72.2	75.9	70.1	66.4
40°	51.7	52.7	54.3	51.1	49.0
42.5°	38.5	39.0	39.0	38.0	36.9
45°	29.0	29.5	29.0	29.0	27.9
47.5°	21.1	22.7	22.1	22.1	20.6
50°	13.7	16.9	16.9	16.3	13.7
52.5°	8.4	11.6	13.2	11.6	9.0
55°	6.3	7.9	10.0	7.9	6.9
57.5°	6.3	6.3	7.4	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.3	5.8	5.8
72.5°	5.3	5.3	4.7	5.3	4.7
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.6	2.6	2.6	2.6	2.6
82.5°	1.6	1.6	1.6	2.1	1.6
85°	1.1	1.1	1.1	1.1	1.1
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°	6.3	6.3	6.3	6.3	6.3
65°	5.8	6.3	5.8	6.3	5.8



(END OF REPORT)