

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: P283556

Luminaire Tested: **LDA2B108035D010 EU2B10FL408035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283556
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: LDA2B108035D010 EU2B10FL408035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 962.6 lumens
Efficiency: N/A
Efficacy: 96.3 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

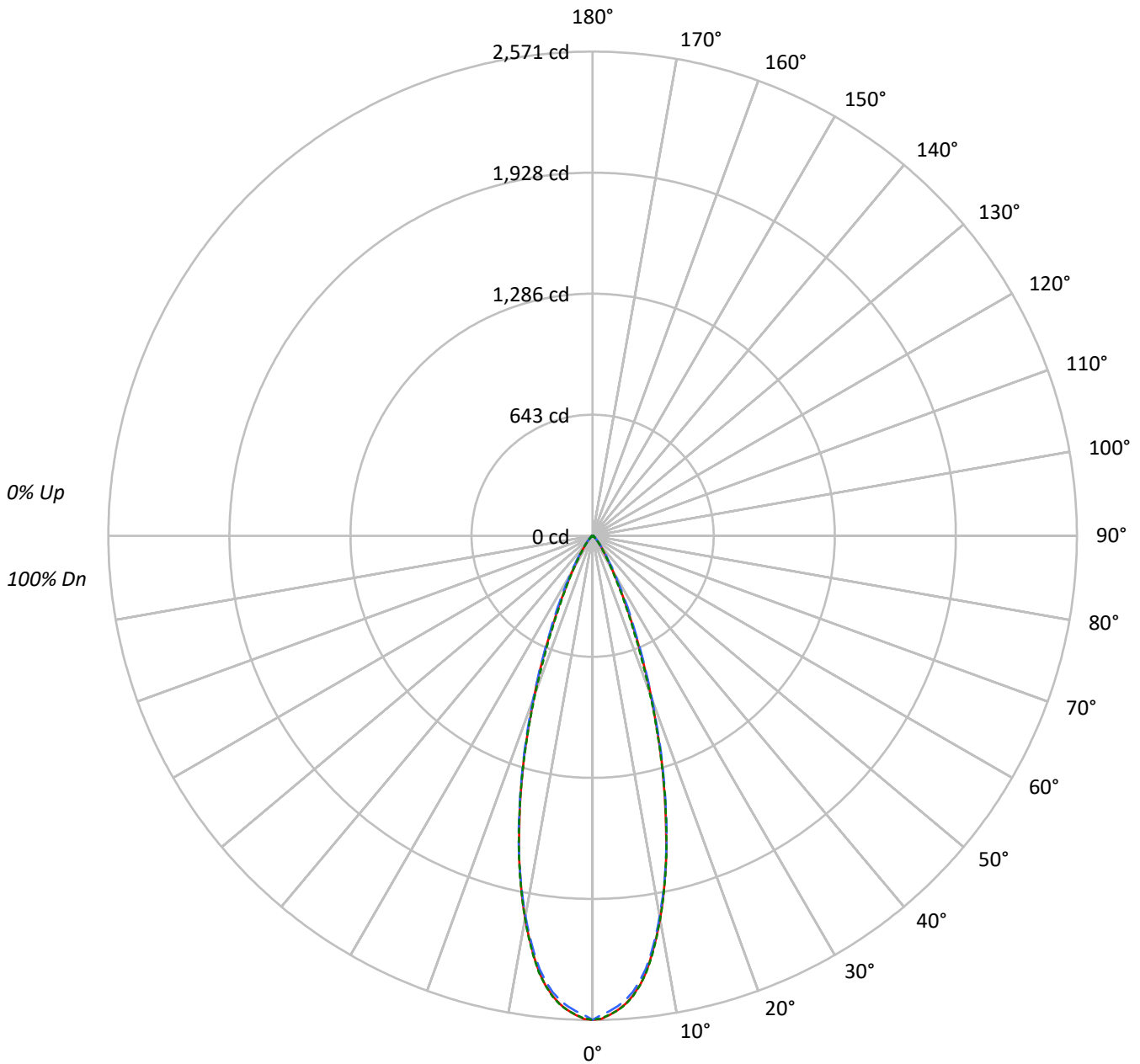
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1268334	1268334	1268334
5°	1213799	1204687	1215681
10°	1034108	1027595	1035210
15°	762216	767170	764667
20°	475830	484598	465329
25°	245781	263745	233423
30°	117868	135072	112285
35°	60831	67335	56916
40°	34070	35809	32331
45°	20722	20722	19955
50°	10745	13278	10745
55°	5591	8860	6021
60°	6414	6414	6414
65°	6888	6888	6888
70°	8511	7789	8511
75°	8197	8197	8197
80°	7671	7671	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.1	23.0
10°-20°	406.2	42.2
20°-30°	220.2	22.9
30°-40°	70.7	7.3
40°-50°	24.1	2.5
50°-60°	8.5	0.9
60°-70°	6.1	0.6
70°-80°	4.5	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°	847.5	88.0
0°-40°	918.2	95.4
0°-60°	950.7	98.8
0°-90°	962.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2571	2571	2571	2571	2571	
5°	2451	2436	2432	2457	2455	222
15°	1492	1505	1502	1509	1497	405
25°	452	472	484	451	429	216
35°	101	105	112	102	94	68
45°	30	30	30	30	29	24
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	5
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°	2570.8	2570.8	2570.8	2570.8	2570.8
1°	2566.5	2548.1	2545.4	2569.2	2563.8
2°	2546.0	2528.7	2526.0	2549.7	2544.9
3°	2523.3	2507.6	2502.2	2527.1	2523.8
4°	2493.0	2478.5	2473.6	2498.4	2495.7
5°	2450.9	2435.8	2432.5	2456.8	2454.7
6°	2399.1	2386.6	2380.7	2405.0	2400.7
7°	2334.2	2322.9	2316.4	2334.2	2336.4
8°	2250.0	2244.6	2237.0	2254.9	2254.9
9°	2160.3	2155.5	2147.4	2163.6	2163.6
10°	2064.2	2061.0	2051.2	2066.4	2066.4
11°	1958.9	1957.3	1950.2	1962.7	1962.7
12°	1848.2	1852.0	1845.5	1856.3	1852.5
13°	1737.5	1735.8	1736.4	1744.5	1738.5
14°	1612.2	1621.9	1623.5	1628.4	1619.2
15°	1492.3	1504.7	1502.0	1509.0	1497.1
16°	1369.7	1383.7	1383.2	1384.8	1373.4
17°	1255.2	1263.3	1263.8	1262.2	1248.1
18°	1133.1	1144.4	1144.4	1141.7	1125.0
19°	1013.7	1022.4	1028.3	1022.4	1002.9
20°	906.3	912.2	923.0	907.9	886.3
21°	803.1	808.5	817.7	799.9	776.1
22°	704.3	711.3	719.9	699.4	674.6
23°	611.9	628.1	631.4	603.3	582.2
24°	527.1	545.5	550.9	522.3	500.1
25°	451.5	472.0	484.5	451.0	428.8
26°	386.2	406.1	421.3	387.8	366.7
27°	328.9	350.0	365.6	334.3	314.3
28°	279.8	300.3	316.5	287.3	268.4
29°	243.0	254.9	271.1	246.8	229.5
30°	206.9	219.8	237.1	212.3	197.1
32.5°	142.0	149.1	162.6	147.4	135.6
35°	101.0	105.3	111.8	101.5	94.5
37.5°	71.8	74.0	77.8	71.8	68.1
40°	52.9	54.0	55.6	52.4	50.2
42.5°	39.4	40.0	40.0	38.9	37.8
45°	29.7	30.2	29.7	29.7	28.6
47.5°	21.6	23.2	22.7	22.7	21.1
50°	14.0	17.3	17.3	16.7	14.0
52.5°	8.6	11.9	13.5	11.9	9.2
55°	6.5	8.1	10.3	8.1	7.0
57.5°	6.5	6.5	7.6	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.4	5.9	5.9
72.5°	5.4	5.4	4.9	5.4	4.9
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.6	1.6	1.6	2.2	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°	6.5	6.5	6.5	6.5	6.5
65°	5.9	6.5	5.9	6.5	5.9



(END OF REPORT)