

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: P283544

Luminaire Tested: **LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283544
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: LDA2B108027D010 EU2B10FL408027 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: 934.1 lumens
Efficiency: N/A
Efficacy: 93.4 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

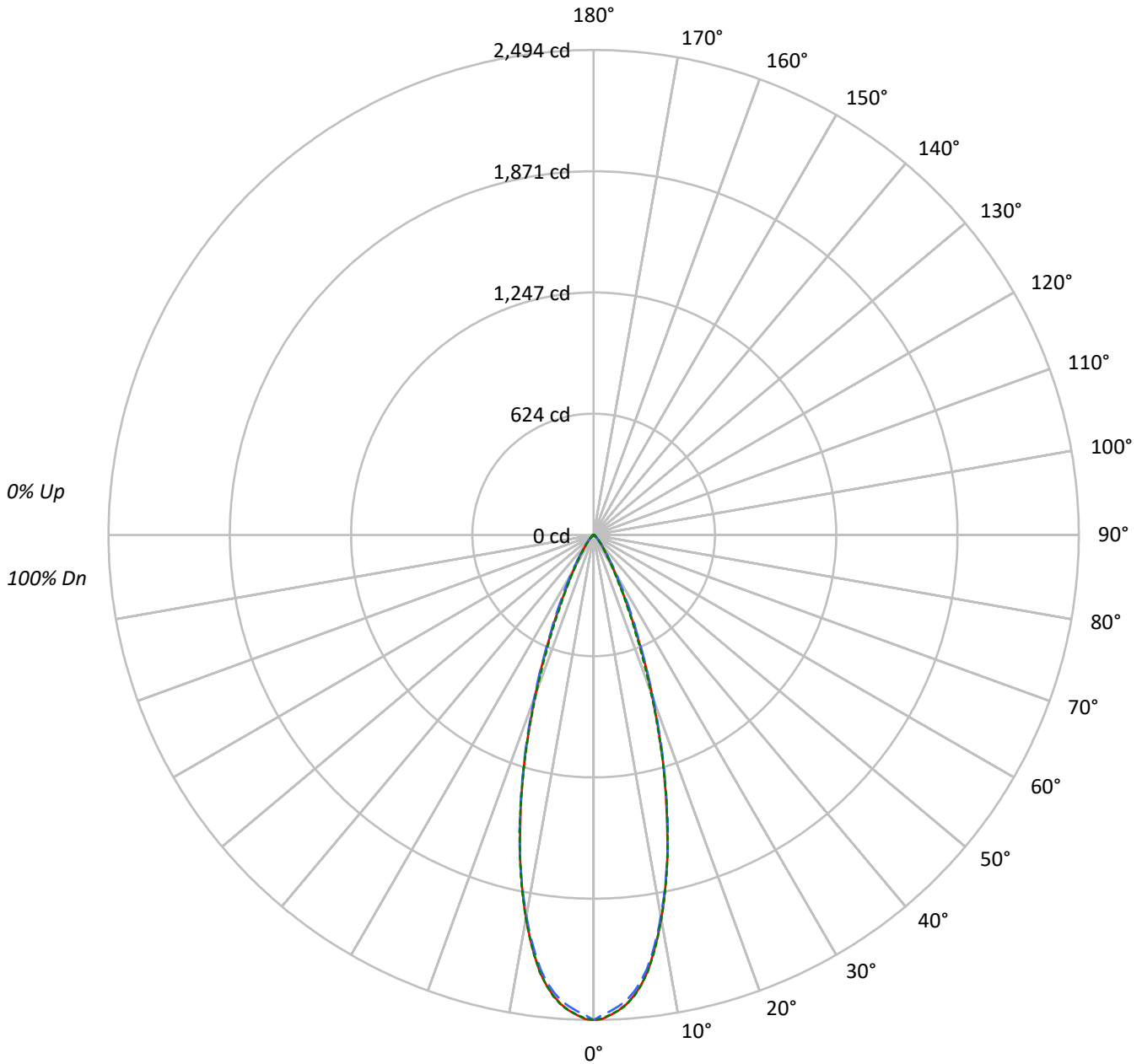
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283544

CATALOG NUMBER: LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283544

CATALOG NUMBER: LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MW

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°	1230691	1230691	1230691
5°	1177795	1168930	1179578
10°	1003398	997136	1004450
15°	739589	744390	741989
20°	461707	470212	451521
25°	238486	255906	226510
30°	114336	131085	108981
35°	59024	65348	55229
40°	33104	34778	31365
45°	20094	20094	19397
50°	10438	12895	10438
55°	5419	8602	5849
60°	6216	6216	6216
65°	6771	6771	6771
70°	8366	7501	8366
75°	8006	8006	8006
80°	7387	7387	7387
85°	5661	5661	5661



TEST NUMBER: P283544

CATALOG NUMBER: LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	23.0
10°-20°	394.1	42.2
20°-30°	213.7	22.9
30°-40°	68.6	7.3
40°-50°	23.4	2.5
50°-60°	8.2	0.9
60°-70°	6.0	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°	822.4	88.0
0°-40°	890.9	95.4
0°-60°	922.5	98.8
0°-90°	934.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	934.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2378	2364	2360	2384	2382	215
15°	1448	1460	1457	1464	1453	393
25°	438	458	470	438	416	210
35°	98	102	108	98	92	66
45°	29	29	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	



TEST NUMBER: P283544

CATALOG NUMBER: LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2494.5	2494.5	2494.5	2494.5	2494.5
1°	2490.3	2472.5	2469.9	2492.9	2487.7
2°	2470.4	2453.6	2451.0	2474.1	2469.3
3°	2448.4	2433.2	2427.9	2452.1	2448.9
4°	2419.0	2404.9	2400.2	2424.3	2421.7
5°	2378.2	2363.5	2360.3	2383.9	2381.8
6°	2327.9	2315.8	2310.0	2333.6	2329.4
7°	2265.0	2254.0	2247.7	2265.0	2267.1
8°	2183.2	2178.0	2170.6	2187.9	2187.9
9°	2096.2	2091.5	2083.6	2099.4	2099.4
10°	2002.9	1999.8	1990.4	2005.0	2005.0
11°	1900.7	1899.2	1892.4	1904.4	1904.4
12°	1793.3	1797.0	1790.7	1801.2	1797.5
13°	1685.9	1684.3	1684.8	1692.7	1686.9
14°	1564.3	1573.7	1575.3	1580.0	1571.1
15°	1448.0	1460.0	1457.4	1464.2	1452.7
16°	1329.0	1342.6	1342.1	1343.7	1332.7
17°	1217.9	1225.8	1226.3	1224.7	1211.1
18°	1099.5	1110.5	1110.5	1107.9	1091.6
19°	983.7	992.0	997.8	992.0	973.2
20°	879.4	885.1	895.6	880.9	860.0
21°	779.3	784.5	793.4	776.1	753.1
22°	683.4	690.2	698.6	678.7	654.5
23°	593.8	609.5	612.6	585.4	564.9
24°	511.5	529.3	534.5	506.8	485.3
25°	438.1	458.0	470.1	437.6	416.1
26°	374.7	394.1	408.8	376.3	355.8
27°	319.1	339.6	354.8	324.4	305.0
28°	271.5	291.4	307.1	278.8	260.5
29°	235.8	247.4	263.1	239.5	222.7
30°	200.7	213.3	230.1	206.0	191.3
32.5°	137.8	144.6	157.7	143.1	131.5
35°	98.0	102.2	108.5	98.5	91.7
37.5°	69.7	71.8	75.5	69.7	66.0
40°	51.4	52.4	54.0	50.8	48.7
42.5°	38.3	38.8	38.8	37.7	36.7
45°	28.8	29.3	28.8	28.8	27.8
47.5°	21.0	22.5	22.0	22.0	20.4
50°	13.6	16.8	16.8	16.2	13.6
52.5°	8.4	11.5	13.1	11.5	8.9
55°	6.3	7.9	10.0	7.9	6.8
57.5°	6.3	6.3	7.3	6.3	6.3
60°	6.3	6.3	6.3	6.3	6.3



TEST NUMBER: P283544

CATALOG NUMBER: LDA2B108027D010 EU2B10FL408027 2LBAPINSQ1MW

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	5.2	5.8	5.8
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



Report Generated By E9808895 / USPTCWHP6082093





— 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)