

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: P283605

Luminaire Tested: **LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283605
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: LDA2B109050D010 EU2B10FL409050 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: 809.8 lumens
Efficiency: N/A
Efficacy: 81.0 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

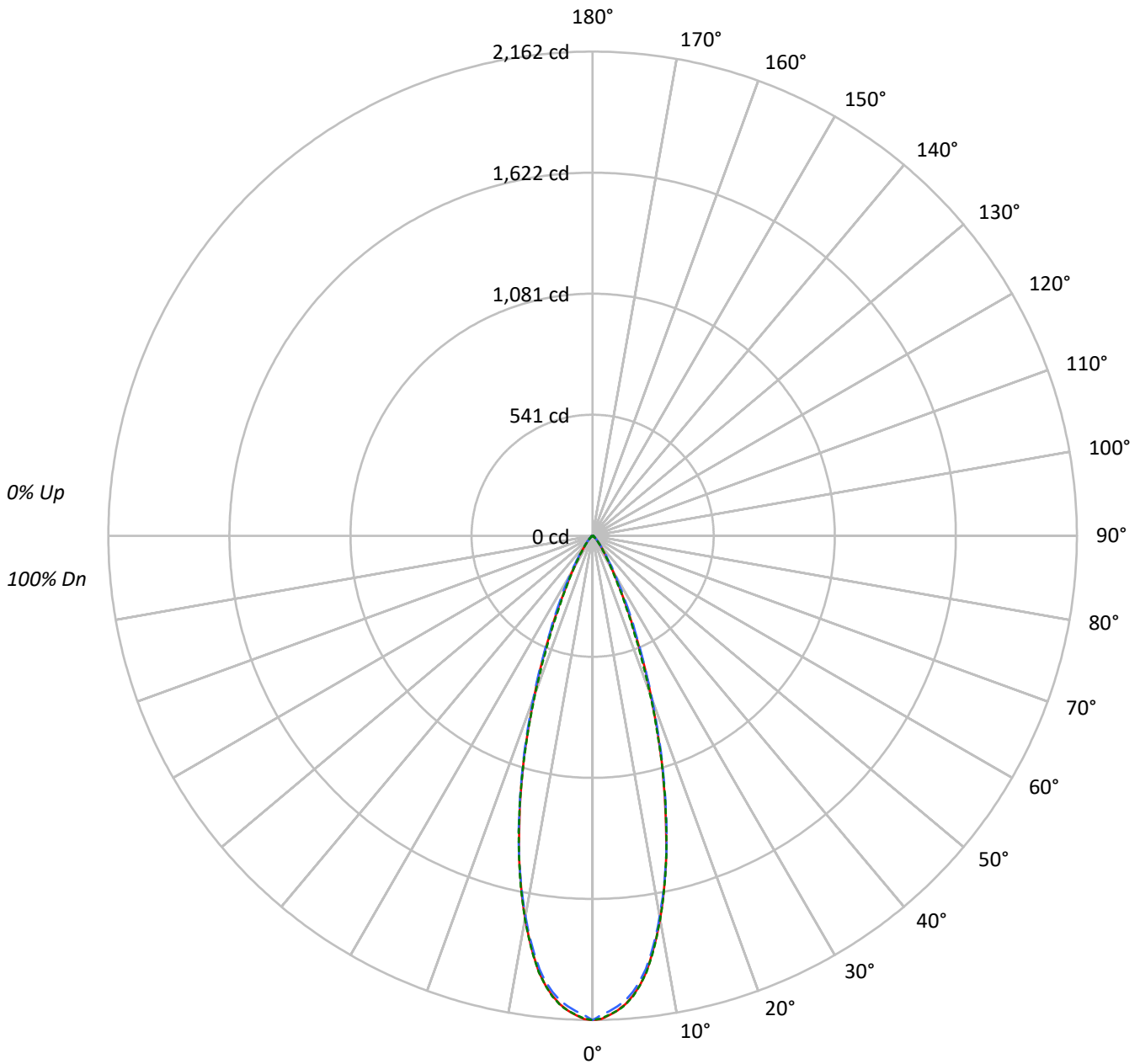
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283605

CATALOG NUMBER: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P283605

CATALOG NUMBER: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MB

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°	1066895	1066895	1066895
5°	1021000	1013373	1022585
10°	869839	864378	870741
15°	641113	645301	643207
20°	400226	407629	391406
25°	206750	221829	196352
30°	99125	113595	94454
35°	51194	56615	47882
40°	28660	30141	27178
45°	17443	17443	16815
50°	9057	11129	9057
55°	4731	7397	5075
60°	5427	5427	5427
65°	5837	5837	5837
70°	7212	6491	7212
75°	6862	6862	6862
80°	6535	6535	6535
85°	5095	5095	5095



TEST NUMBER: P283605

CATALOG NUMBER: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	23.0
10°-20°	341.7	42.2
20°-30°	185.2	22.9
30°-40°	59.4	7.3
40°-50°	20.3	2.5
50°-60°	7.1	0.9
60°-70°	5.2	0.6
70°-80°	3.8	0.5
80°-90°	1.1	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°	712.9	88.0
0°-40°	772.3	95.4
0°-60°	799.7	98.8
0°-90°	809.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2062	2049	2046	2067	2065	186
15°	1255	1266	1263	1269	1259	340
25°	380	397	408	379	361	182
35°	85	89	94	85	80	57
45°	25	25	25	25	24	20
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283605

CATALOG NUMBER: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.5	2162.5	2162.5	2162.5	2162.5
1°	2158.8	2143.4	2141.1	2161.1	2156.5
2°	2141.6	2127.0	2124.7	2144.7	2140.6
3°	2122.5	2109.3	2104.8	2125.7	2122.9
4°	2097.0	2084.8	2080.7	2101.6	2099.3
5°	2061.6	2048.9	2046.2	2066.6	2064.8
6°	2018.0	2007.5	2002.5	2023.0	2019.3
7°	1963.5	1953.9	1948.5	1963.5	1965.3
8°	1892.6	1888.1	1881.7	1896.7	1896.7
9°	1817.2	1813.1	1806.3	1819.9	1819.9
10°	1736.3	1733.6	1725.4	1738.1	1738.1
11°	1647.7	1646.4	1640.5	1650.9	1650.9
12°	1554.6	1557.8	1552.3	1561.4	1558.2
13°	1461.5	1460.1	1460.6	1467.4	1462.4
14°	1356.1	1364.3	1365.6	1369.7	1362.0
15°	1255.2	1265.7	1263.4	1269.3	1259.3
16°	1152.1	1163.9	1163.5	1164.8	1155.3
17°	1055.8	1062.6	1063.1	1061.7	1049.9
18°	953.1	962.7	962.7	960.4	946.3
19°	852.7	860.0	865.0	860.0	843.6
20°	762.3	767.3	776.4	763.7	745.5
21°	675.5	680.1	687.8	672.8	652.8
22°	592.4	598.3	605.6	588.3	567.4
23°	514.7	528.3	531.1	507.4	489.7
24°	443.4	458.8	463.4	439.3	420.7
25°	379.8	397.1	407.5	379.3	360.7
26°	324.8	341.6	354.4	326.2	308.5
27°	276.7	294.4	307.6	281.2	264.4
28°	235.3	252.6	266.2	241.7	225.8
29°	204.4	214.4	228.1	207.6	193.1
30°	174.0	184.9	199.4	178.5	165.8
32.5°	119.5	125.4	136.7	124.0	114.0
35°	85.0	88.6	94.0	85.4	79.5
37.5°	60.4	62.2	65.4	60.4	57.2
40°	44.5	45.4	46.8	44.1	42.2
42.5°	33.2	33.6	33.6	32.7	31.8
45°	25.0	25.4	25.0	25.0	24.1
47.5°	18.2	19.5	19.1	19.1	17.7
50°	11.8	14.5	14.5	14.1	11.8
52.5°	7.3	10.0	11.4	10.0	7.7
55°	5.5	6.8	8.6	6.8	5.9
57.5°	5.5	5.5	6.4	5.5	5.5
60°	5.5	5.5	5.5	5.5	5.5



TEST NUMBER: P283605

CATALOG NUMBER: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	4.5	5.0	5.0
72.5°	4.5	4.5	4.1	4.5	4.1
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.4	1.4	1.4	1.8	1.4
85°	0.9	0.9	0.9	0.9	0.9
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°	5.5	5.5	5.5	5.5	5.5
65°	5.0	5.5	5.0	5.5	5.0



(END OF REPORT)