

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: P283600

Luminaire Tested: **LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283600
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: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 805.1 lumens
Efficiency: N/A
Efficacy: 80.5 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

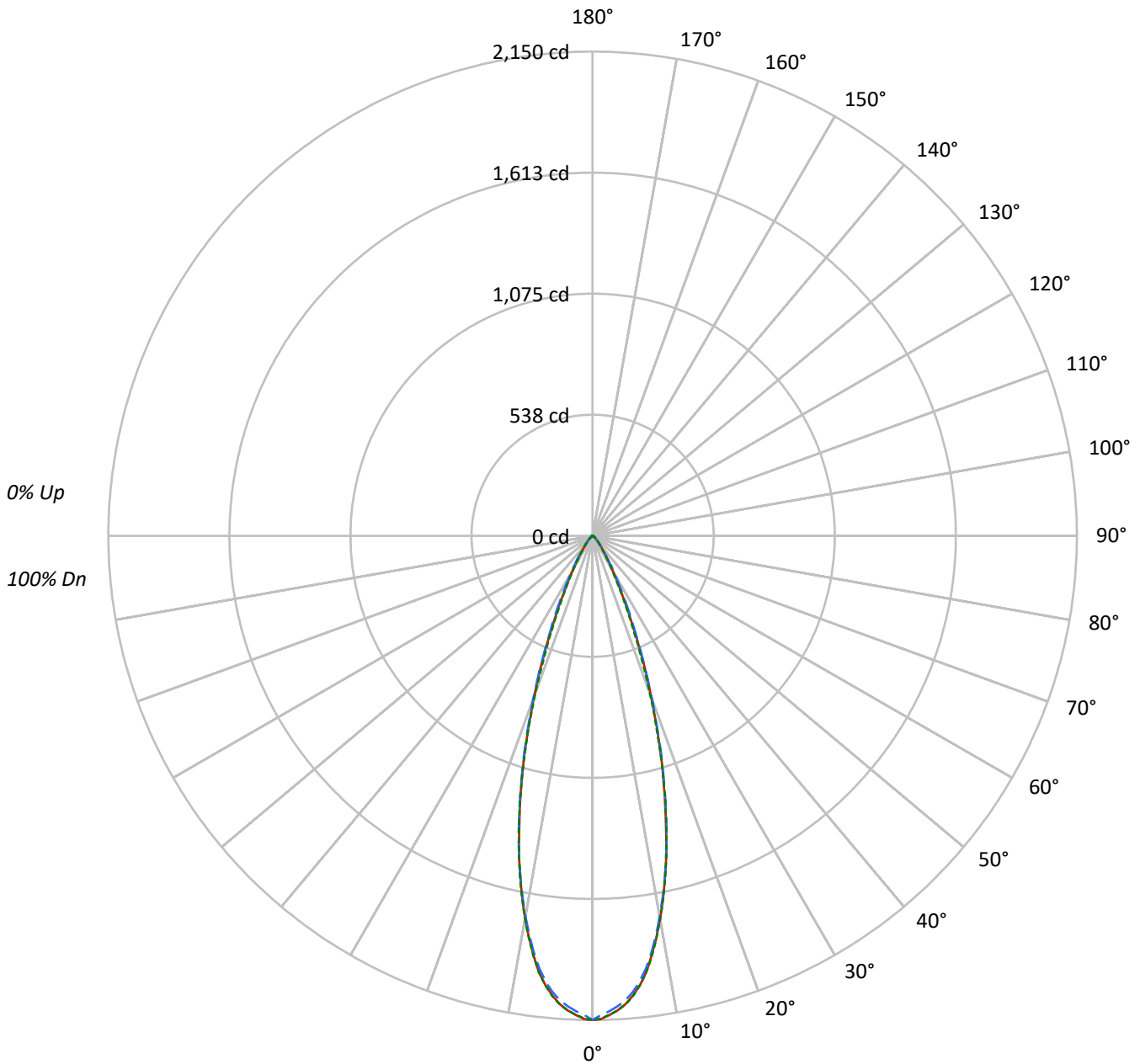
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283600

CATALOG NUMBER: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283600

CATALOG NUMBER: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS

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°	1060728	1060728	1060728
5°	1015106	1007529	1016691
10°	864829	859419	865731
15°	637436	641573	639530
20°	397916	405267	389148
25°	205552	220576	195209
30°	98556	112969	93941
35°	50893	56314	47580
40°	28531	29948	27050
45°	17303	17303	16675
50°	8980	11129	8980
55°	4645	7397	5075
60°	5328	5328	5328
65°	5837	5837	5837
70°	7212	6491	7212
75°	6862	6862	6862
80°	6535	6535	6535
85°	5095	5095	5095



TEST NUMBER: P283600

CATALOG NUMBER: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	23.0
10°-20°	339.7	42.2
20°-30°	184.2	22.9
30°-40°	59.1	7.3
40°-50°	20.1	2.5
50°-60°	7.1	0.9
60°-70°	5.1	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°	708.8	88.0
0°-40°	767.9	95.4
0°-60°	795.1	98.8
0°-90°	805.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2050	2037	2034	2055	2053	185
15°	1248	1258	1256	1262	1252	338
25°	378	395	405	377	359	181
35°	84	88	94	85	79	57
45°	25	25	25	25	24	20
55°	5	7	9	7	6	6
65°	5	5	5	5	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283600

CATALOG NUMBER: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2150.0	2150.0	2150.0	2150.0	2150.0
1°	2146.4	2131.0	2128.8	2148.7	2144.1
2°	2129.2	2114.8	2112.5	2132.4	2128.3
3°	2110.3	2097.2	2092.6	2113.4	2110.7
4°	2085.0	2072.8	2068.7	2089.5	2087.2
5°	2049.7	2037.1	2034.4	2054.7	2052.9
6°	2006.4	1996.0	1991.0	2011.3	2007.7
7°	1952.2	1942.7	1937.3	1952.2	1954.0
8°	1881.7	1877.2	1870.9	1885.8	1885.8
9°	1806.7	1802.7	1795.9	1809.4	1809.4
10°	1726.3	1723.6	1715.5	1728.1	1728.1
11°	1638.3	1636.9	1631.0	1641.4	1641.4
12°	1545.7	1548.8	1543.4	1552.4	1549.3
13°	1453.1	1451.7	1452.2	1458.9	1454.0
14°	1348.3	1356.4	1357.8	1361.8	1354.1
15°	1248.0	1258.4	1256.1	1262.0	1252.1
16°	1145.5	1157.2	1156.8	1158.1	1148.6
17°	1049.7	1056.5	1056.9	1055.6	1043.8
18°	947.6	957.1	957.1	954.9	940.9
19°	847.8	855.0	860.0	855.0	838.8
20°	757.9	762.9	771.9	759.3	741.2
21°	671.7	676.2	683.8	668.9	649.1
22°	589.0	594.9	602.1	584.9	564.2
23°	511.8	525.3	528.0	504.5	486.9
24°	440.8	456.2	460.7	436.8	418.3
25°	377.6	394.8	405.2	377.2	358.6
26°	323.0	339.7	352.3	324.3	306.7
27°	275.1	292.7	305.8	279.6	262.9
28°	234.0	251.1	264.7	240.3	224.5
29°	203.3	213.2	226.7	206.4	192.0
30°	173.0	183.8	198.3	177.5	164.9
32.5°	118.8	124.7	136.0	123.3	113.4
35°	84.5	88.1	93.5	84.9	79.0
37.5°	60.1	61.9	65.0	60.1	56.9
40°	44.3	45.2	46.5	43.8	42.0
42.5°	33.0	33.4	33.4	32.5	31.6
45°	24.8	25.3	24.8	24.8	23.9
47.5°	18.1	19.4	19.0	19.0	17.6
50°	11.7	14.5	14.5	14.0	11.7
52.5°	7.2	9.9	11.3	9.9	7.7
55°	5.4	6.8	8.6	6.8	5.9
57.5°	5.4	5.4	6.3	5.4	5.4
60°	5.4	5.4	5.4	5.4	5.4



TEST NUMBER: P283600

CATALOG NUMBER: LDA2B109040D010 EU2B10FL409040 2LBAPINSQ1MMS

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°	5.4	5.4	5.4	5.4	5.4
65°	5.0	5.4	5.0	5.4	5.0



(END OF REPORT)