

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: P283592

Luminaire Tested: **LDA2B109035D010 EU2B10FL409035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283592
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: LDA2B109035D010 EU2B10FL409035 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: 797.3 lumens
Efficiency: N/A
Efficacy: 79.7 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

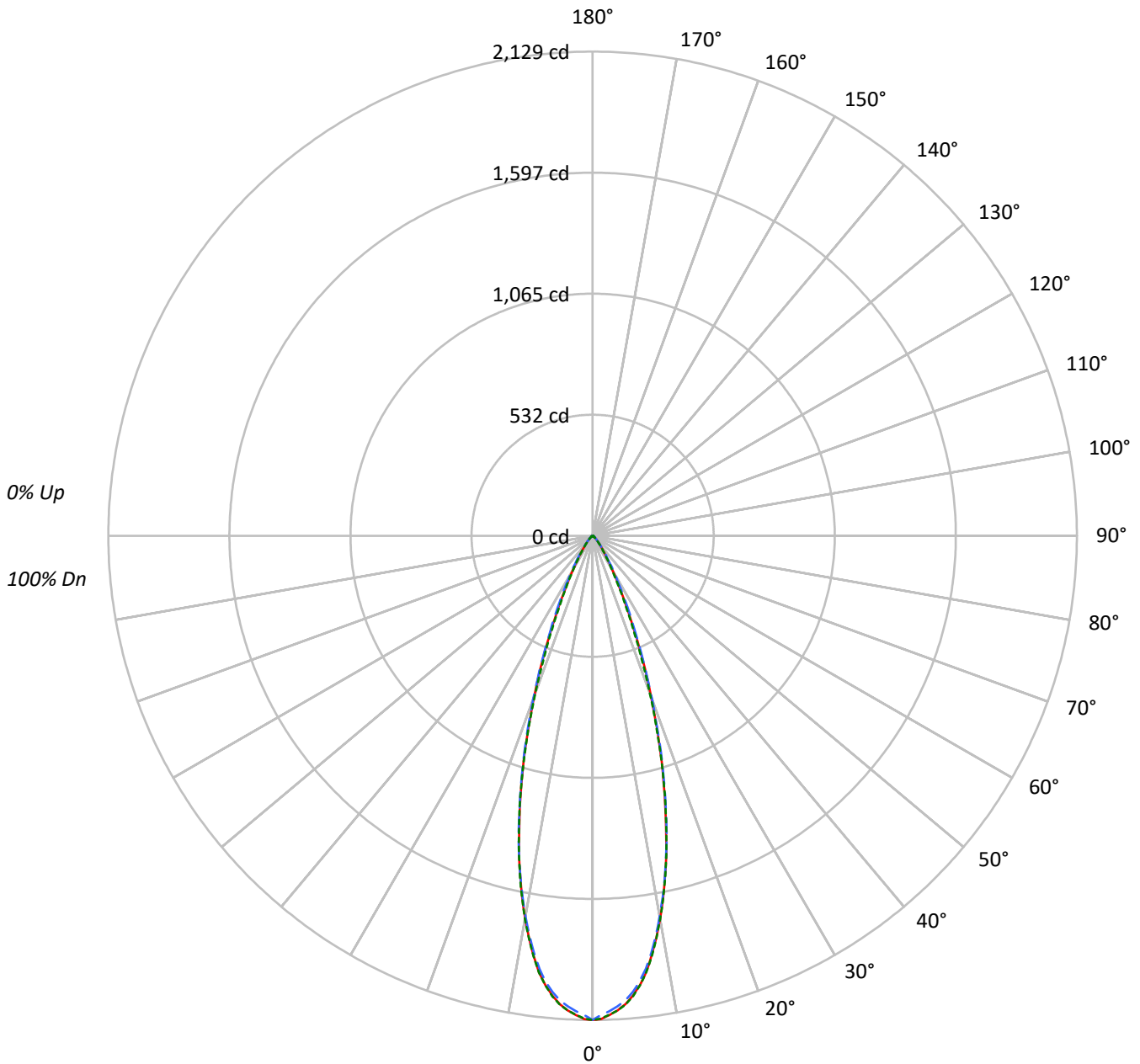
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1050417	1050417	1050417
5°	1005251	997723	1006836
10°	856463	851052	857365
15°	631255	635341	633298
20°	394084	401329	385368
25°	203538	218399	193358
30°	97587	111886	93030
35°	50351	55771	47159
40°	28209	29690	26792
45°	17164	17164	16536
50°	8903	10976	8903
55°	4645	7311	4989
60°	5328	5328	5328
65°	5720	5720	5720
70°	7068	6491	7068
75°	6862	6862	6862
80°	6251	6251	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	23.0
10°-20°	336.4	42.2
20°-30°	182.4	22.9
30°-40°	58.5	7.3
40°-50°	20.0	2.5
50°-60°	7.0	0.9
60°-70°	5.1	0.6
70°-80°	3.7	0.5
80°-90°	1.0	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°	701.9	88.0
0°-40°	760.5	95.4
0°-60°	787.4	98.8
0°-90°	797.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	797.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2129	2129	2129	2129	2129	
5°	2030	2017	2015	2035	2033	184
15°	1236	1246	1244	1250	1240	335
25°	374	391	401	374	355	179
35°	84	87	93	84	78	56
45°	25	25	25	25	24	20
55°	5	7	8	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2129.1	2129.1	2129.1	2129.1	2129.1
1°	2125.6	2110.4	2108.1	2127.8	2123.3
2°	2108.6	2094.3	2092.0	2111.7	2107.7
3°	2089.8	2076.8	2072.3	2092.9	2090.2
4°	2064.7	2052.7	2048.6	2069.2	2067.0
5°	2029.8	2017.3	2014.6	2034.8	2033.0
6°	1986.9	1976.6	1971.7	1991.8	1988.3
7°	1933.2	1923.8	1918.5	1933.2	1935.0
8°	1863.5	1859.0	1852.7	1867.5	1867.5
9°	1789.2	1785.2	1778.5	1791.9	1791.9
10°	1709.6	1706.9	1698.8	1711.4	1711.4
11°	1622.4	1621.0	1615.2	1625.5	1625.5
12°	1530.7	1533.8	1528.4	1537.4	1534.2
13°	1439.0	1437.6	1438.1	1444.8	1439.9
14°	1335.2	1343.2	1344.6	1348.6	1341.0
15°	1235.9	1246.2	1243.9	1249.8	1239.9
16°	1134.4	1146.0	1145.5	1146.9	1137.5
17°	1039.5	1046.2	1046.7	1045.3	1033.7
18°	938.4	947.8	947.8	945.6	931.7
19°	839.6	846.7	851.7	846.7	830.6
20°	750.6	755.5	764.4	751.9	734.0
21°	665.1	669.6	677.2	662.5	642.8
22°	583.3	589.1	596.3	579.3	558.7
23°	506.8	520.2	522.9	499.6	482.2
24°	436.6	451.8	456.2	432.5	414.2
25°	373.9	390.9	401.2	373.5	355.2
26°	319.8	336.4	348.9	321.2	303.7
27°	272.4	289.9	302.8	276.9	260.3
28°	231.7	248.7	262.1	238.0	222.3
29°	201.3	211.1	224.5	204.4	190.1
30°	171.3	182.1	196.4	175.8	163.3
32.5°	117.6	123.5	134.6	122.1	112.3
35°	83.6	87.2	92.6	84.1	78.3
37.5°	59.5	61.3	64.4	59.5	56.4
40°	43.8	44.7	46.1	43.4	41.6
42.5°	32.7	33.1	33.1	32.2	31.3
45°	24.6	25.0	24.6	24.6	23.7
47.5°	17.9	19.2	18.8	18.8	17.4
50°	11.6	14.3	14.3	13.9	11.6
52.5°	7.2	9.8	11.2	9.8	7.6
55°	5.4	6.7	8.5	6.7	5.8
57.5°	5.4	5.4	6.3	5.4	5.4
60°	5.4	5.4	5.4	5.4	5.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.5	4.9	4.9
72.5°	4.5	4.5	4.0	4.5	4.0
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.3	1.3	1.3	1.8	1.3
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.9	5.4	4.9	5.4	4.9



(END OF REPORT)