

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: P283610

Luminaire Tested: **LDA2B109727D010 EU2B10FL409727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283610
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: LDA2B109727D010 EU2B10FL409727 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: 662.4 lumens
Efficiency: N/A
Efficacy: 66.2 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

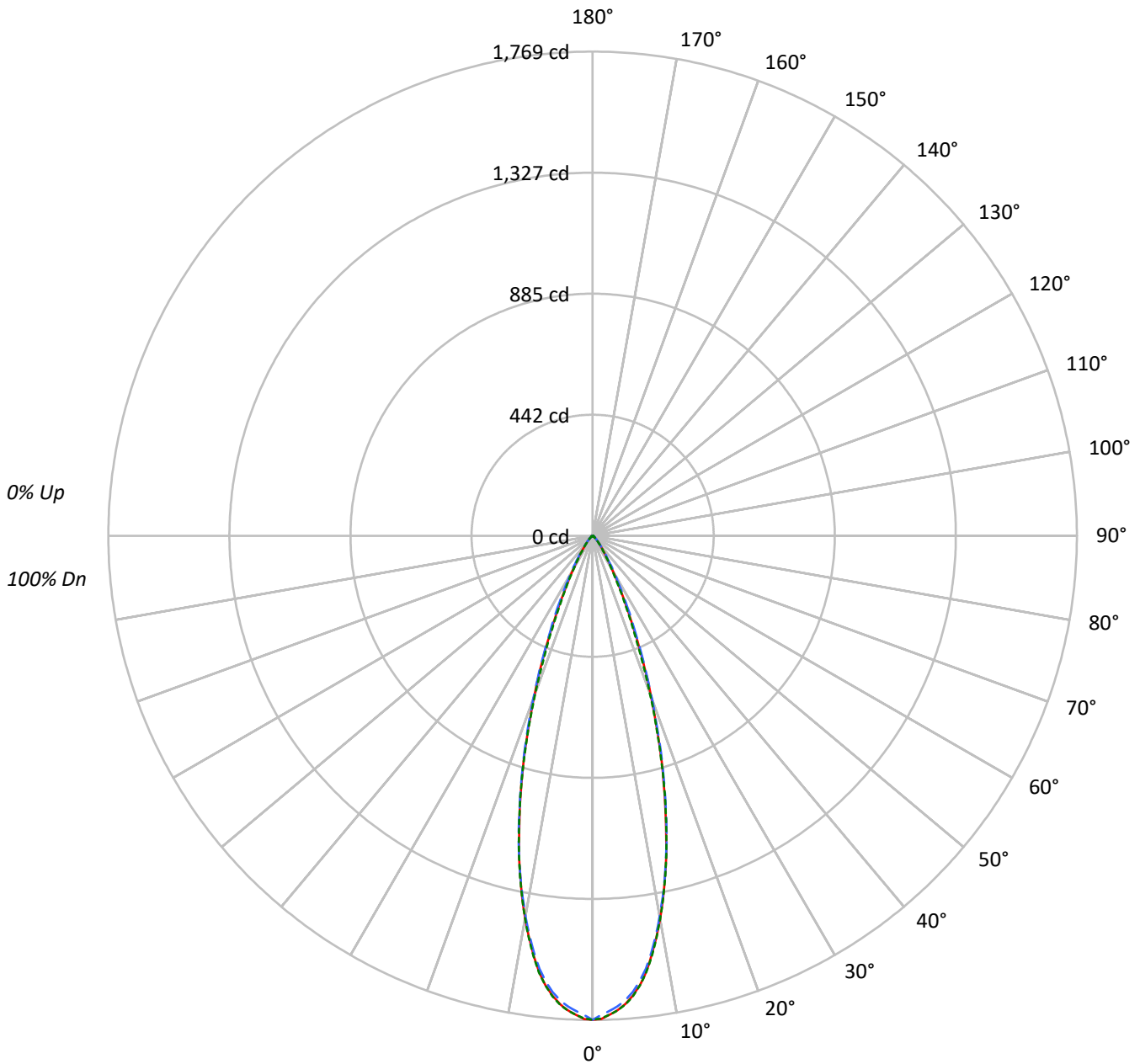
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	872658	872658	872658
5°	835134	828844	836422
10°	711481	707023	712233
15°	524403	527825	526089
20°	327353	333391	320160
25°	169080	181437	160588
30°	81066	92916	77249
35°	41859	46316	39148
40°	23443	24667	22284
45°	14233	14233	13745
50°	7445	9134	7445
55°	3871	6107	4129
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5337	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	23.0
10°-20°	279.5	42.2
20°-30°	151.5	22.9
30°-40°	48.6	7.3
40°-50°	16.6	2.5
50°-60°	5.8	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.5
80°-90°	0.9	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°	583.1	88.0
0°-40°	631.7	95.4
0°-60°	654.1	98.8
0°-90°	662.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	662.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1686	1676	1674	1690	1689	152
15°	1027	1035	1033	1038	1030	278
25°	311	325	333	310	295	149
35°	70	72	77	70	65	47
45°	20	21	20	20	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1768.8	1768.8	1768.8	1768.8	1768.8
1°	1765.8	1753.1	1751.3	1767.6	1763.9
2°	1751.7	1739.8	1737.9	1754.3	1750.9
3°	1736.1	1725.3	1721.6	1738.7	1736.4
4°	1715.2	1705.2	1701.9	1719.0	1717.1
5°	1686.3	1675.9	1673.6	1690.3	1688.9
6°	1650.6	1642.0	1638.0	1654.7	1651.7
7°	1606.0	1598.2	1593.7	1606.0	1607.5
8°	1548.0	1544.3	1539.1	1551.4	1551.4
9°	1486.3	1483.0	1477.4	1488.6	1488.6
10°	1420.2	1418.0	1411.3	1421.7	1421.7
11°	1347.7	1346.6	1341.8	1350.3	1350.3
12°	1271.6	1274.2	1269.7	1277.1	1274.5
13°	1195.4	1194.3	1194.7	1200.2	1196.1
14°	1109.2	1115.9	1117.0	1120.3	1114.0
15°	1026.7	1035.2	1033.4	1038.2	1030.0
16°	942.3	952.0	951.6	952.7	944.9
17°	863.6	869.1	869.5	868.4	858.7
18°	779.6	787.4	787.4	785.5	774.0
19°	697.5	703.4	707.5	703.4	690.0
20°	623.5	627.6	635.0	624.6	609.8
21°	552.5	556.3	562.6	550.3	534.0
22°	484.5	489.4	495.3	481.2	464.1
23°	421.0	432.2	434.4	415.1	400.6
24°	362.7	375.3	379.0	359.3	344.1
25°	310.6	324.8	333.3	310.3	295.0
26°	265.7	279.4	289.8	266.8	252.3
27°	226.3	240.8	251.6	230.0	216.3
28°	192.5	206.6	217.7	197.7	184.7
29°	167.2	175.4	186.5	169.8	157.9
30°	142.3	151.2	163.1	146.0	135.6
32.5°	97.7	102.6	111.8	101.4	93.3
35°	69.5	72.5	76.9	69.9	65.0
37.5°	49.4	50.9	53.5	49.4	46.8
40°	36.4	37.2	38.3	36.0	34.6
42.5°	27.1	27.5	27.5	26.8	26.0
45°	20.4	20.8	20.4	20.4	19.7
47.5°	14.9	16.0	15.6	15.6	14.5
50°	9.7	11.9	11.9	11.5	9.7
52.5°	5.9	8.2	9.3	8.2	6.3
55°	4.5	5.6	7.1	5.6	4.8
57.5°	4.5	4.5	5.2	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.3
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.7	0.7	0.7	0.7	0.7
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°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)