

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: P283612

Luminaire Tested: **LDA2B109727D010 EU2B10FL409727 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283612
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 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: 654.8 lumens
Efficiency: N/A
Efficacy: 65.5 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

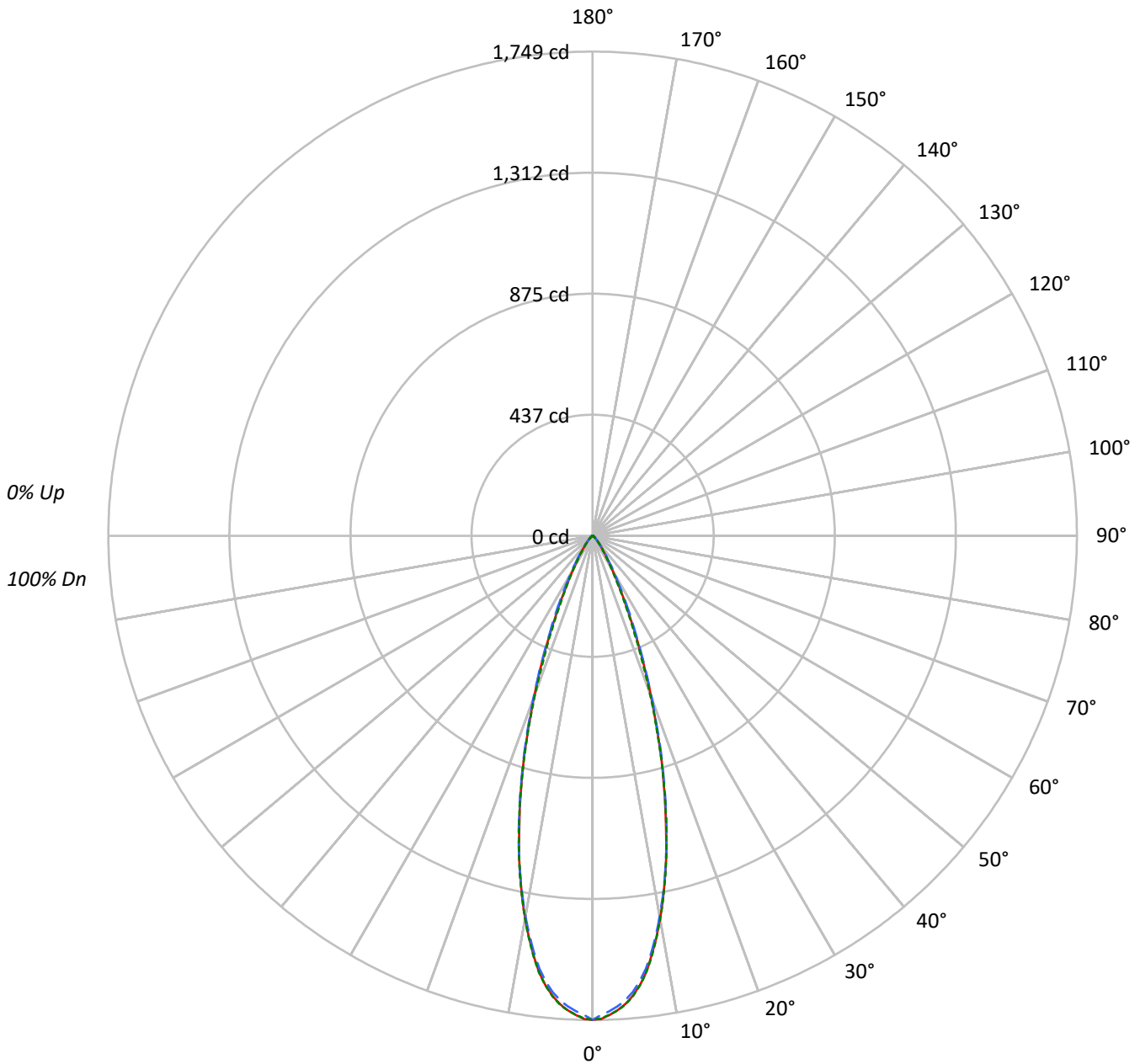
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	862840	862840	862840
5°	825724	819534	827012
10°	703516	699057	704217
15°	518529	521900	520215
20°	323678	329663	316537
25°	167229	179423	158791
30°	80155	91890	76395
35°	41377	45834	38727
40°	23185	24345	22026
45°	14094	14094	13606
50°	7368	9057	7368
55°	3785	6021	4129
60°	4342	4342	4342
65°	4670	4670	4670
70°	5770	5337	5770
75°	5528	5528	5528
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	23.0
10°-20°	276.3	42.2
20°-30°	149.8	22.9
30°-40°	48.1	7.3
40°-50°	16.4	2.5
50°-60°	5.7	0.9
60°-70°	4.2	0.6
70°-80°	3.0	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°	576.6	88.0
0°-40°	624.6	95.4
0°-60°	646.8	98.8
0°-90°	654.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1667	1657	1655	1671	1670	151
15°	1015	1024	1022	1027	1018	275
25°	307	321	330	307	292	147
35°	69	72	76	69	64	46
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°	1748.9	1748.9	1748.9	1748.9	1748.9
1°	1746.0	1733.5	1731.6	1747.8	1744.1
2°	1732.0	1720.2	1718.4	1734.6	1731.3
3°	1716.6	1705.9	1702.2	1719.1	1716.9
4°	1696.0	1686.1	1682.8	1699.7	1697.8
5°	1667.3	1657.0	1654.8	1671.4	1669.9
6°	1632.1	1623.6	1619.6	1636.1	1633.2
7°	1588.0	1580.3	1575.8	1588.0	1589.4
8°	1530.7	1527.0	1521.8	1534.0	1534.0
9°	1469.7	1466.4	1460.8	1471.9	1471.9
10°	1404.3	1402.1	1395.4	1405.7	1405.7
11°	1332.6	1331.5	1326.7	1335.2	1335.2
12°	1257.3	1259.9	1255.5	1262.8	1260.2
13°	1182.0	1180.9	1181.2	1186.8	1182.7
14°	1096.7	1103.4	1104.5	1107.8	1101.5
15°	1015.2	1023.6	1021.8	1026.6	1018.5
16°	931.8	941.3	941.0	942.1	934.3
17°	853.9	859.4	859.8	858.7	849.1
18°	770.8	778.6	778.6	776.7	765.3
19°	689.6	695.5	699.6	695.5	682.3
20°	616.5	620.6	627.9	617.6	602.9
21°	546.3	550.0	556.3	544.1	528.0
22°	479.1	483.9	489.8	475.8	458.9
23°	416.3	427.3	429.5	410.4	396.1
24°	358.6	371.1	374.8	355.3	340.2
25°	307.2	321.1	329.6	306.8	291.7
26°	262.7	276.3	286.6	263.8	249.5
27°	223.8	238.1	248.7	227.4	213.8
28°	190.3	204.3	215.3	195.5	182.6
29°	165.3	173.4	184.4	167.9	156.2
30°	140.7	149.5	161.3	144.4	134.1
32.5°	96.6	101.4	110.6	100.3	92.2
35°	68.7	71.6	76.1	69.1	64.3
37.5°	48.9	50.3	52.9	48.9	46.3
40°	36.0	36.7	37.8	35.6	34.2
42.5°	26.8	27.2	27.2	26.5	25.7
45°	20.2	20.6	20.2	20.2	19.5
47.5°	14.7	15.8	15.4	15.4	14.3
50°	9.6	11.8	11.8	11.4	9.6
52.5°	5.9	8.1	9.2	8.1	6.2
55°	4.4	5.5	7.0	5.5	4.8
57.5°	4.4	4.4	5.1	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	3.7	4.0	4.0
72.5°	3.7	3.7	3.3	3.7	3.3
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.8	1.8	1.8
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°	4.4	4.4	4.4	4.4	4.4
65°	4.0	4.4	4.0	4.4	4.0



(END OF REPORT)