

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: P283624

Luminaire Tested: **LDA2B10D2WD010 EU2B10FL40D2W 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283624
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: LDA2B10D2WD010 EU2B10FL40D2W 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: 704.3 lumens
Efficiency: N/A
Efficacy: 70.4 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

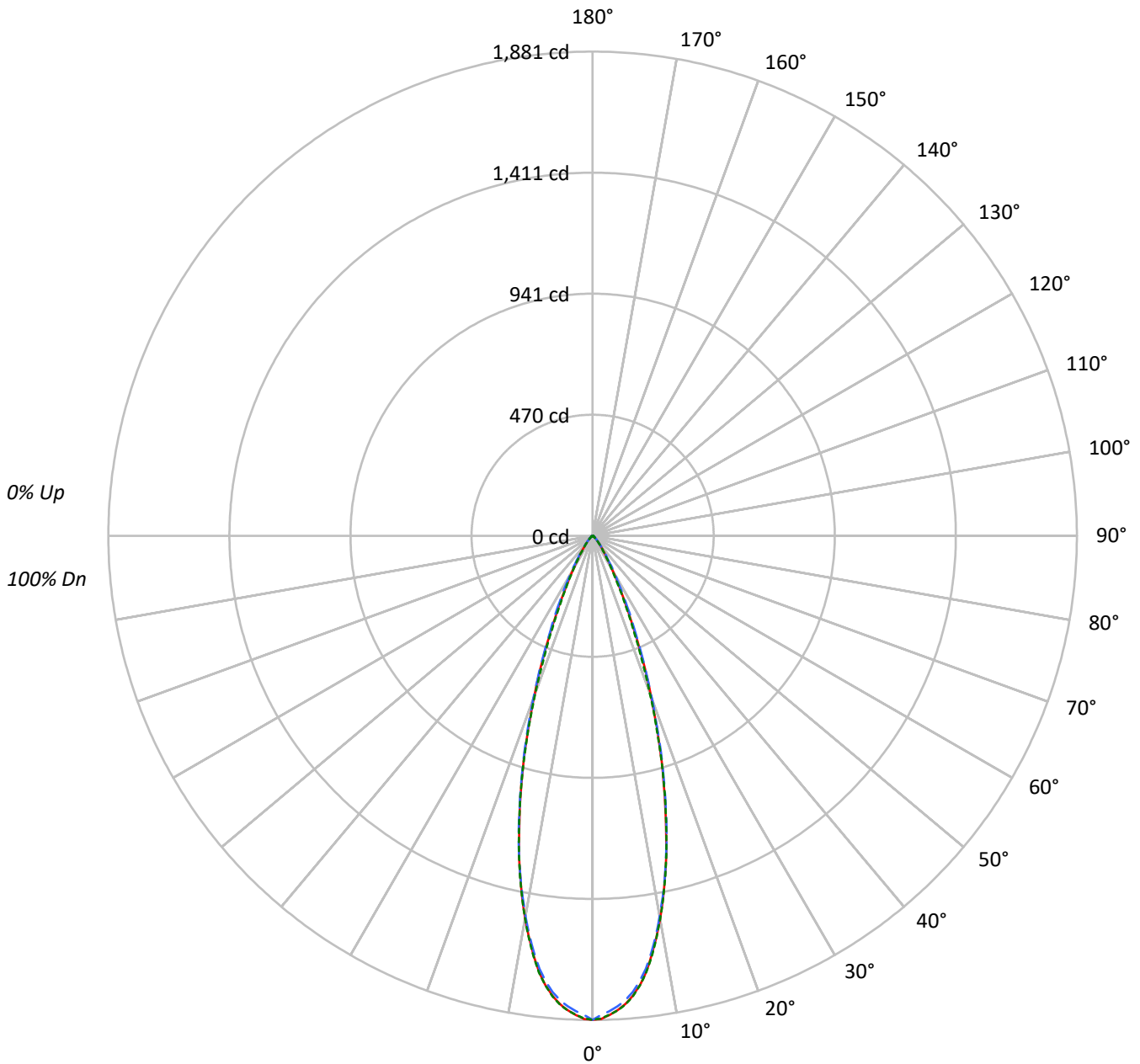
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	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°	927964	927964	927964
5°	888026	881390	889413
10°	756569	751810	757371
15°	557654	561280	559442
20°	348091	354549	340426
25°	179804	192923	170767
30°	86193	98840	82149
35°	44509	49267	41618
40°	24924	26212	23636
45°	15141	15141	14582
50°	7906	9671	7906
55°	4043	6451	4387
60°	4638	4638	4638
65°	5020	5020	5020
70°	6203	5770	6203
75°	6100	6100	6100
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	23.0
10°-20°	297.2	42.2
20°-30°	161.1	22.9
30°-40°	51.7	7.3
40°-50°	17.6	2.5
50°-60°	6.2	0.9
60°-70°	4.5	0.6
70°-80°	3.3	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°	620.1	88.0
0°-40°	671.8	95.4
0°-60°	695.5	98.8
0°-90°	704.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1793	1782	1780	1798	1796	162
15°	1092	1101	1099	1104	1095	296
25°	330	345	354	330	314	158
35°	74	77	82	74	69	50
45°	22	22	22	22	21	17
55°	5	6	8	6	5	5
65°	4	5	4	5	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°	1880.9	1880.9	1880.9	1880.9	1880.9
1°	1877.7	1864.3	1862.3	1879.7	1875.7
2°	1862.7	1850.0	1848.1	1865.5	1861.9
3°	1846.1	1834.6	1830.7	1848.9	1846.5
4°	1824.0	1813.3	1809.7	1827.9	1825.9
5°	1793.1	1782.1	1779.7	1797.5	1795.9
6°	1755.2	1746.1	1741.8	1759.6	1756.4
7°	1707.8	1699.5	1694.8	1707.8	1709.4
8°	1646.1	1642.2	1636.7	1649.7	1649.7
9°	1580.6	1577.0	1571.1	1582.9	1582.9
10°	1510.2	1507.9	1500.7	1511.8	1511.8
11°	1433.2	1432.0	1426.8	1435.9	1435.9
12°	1352.2	1354.9	1350.2	1358.1	1355.3
13°	1271.2	1270.0	1270.4	1276.3	1272.0
14°	1179.5	1186.6	1187.8	1191.3	1184.6
15°	1091.8	1100.9	1098.9	1104.0	1095.3
16°	1002.1	1012.3	1012.0	1013.1	1004.8
17°	918.3	924.2	924.6	923.4	913.2
18°	829.0	837.3	837.3	835.3	823.1
19°	741.7	748.0	752.3	748.0	733.8
20°	663.0	667.4	675.3	664.2	648.4
21°	587.6	591.5	598.2	585.2	567.8
22°	515.3	520.4	526.7	511.7	493.5
23°	447.7	459.5	461.9	441.4	426.0
24°	385.7	399.1	403.0	382.1	365.9
25°	330.3	345.4	354.4	329.9	313.7
26°	282.5	297.1	308.2	283.7	268.3
27°	240.6	256.1	267.5	244.6	230.0
28°	204.7	219.7	231.6	210.2	196.4
29°	177.8	186.5	198.4	180.6	167.9
30°	151.3	160.8	173.5	155.3	144.2
32.5°	103.9	109.1	118.9	107.9	99.2
35°	73.9	77.1	81.8	74.3	69.1
37.5°	52.6	54.1	56.9	52.6	49.8
40°	38.7	39.5	40.7	38.3	36.7
42.5°	28.8	29.2	29.2	28.5	27.7
45°	21.7	22.1	21.7	21.7	20.9
47.5°	15.8	17.0	16.6	16.6	15.4
50°	10.3	12.6	12.6	12.2	10.3
52.5°	6.3	8.7	9.9	8.7	6.7
55°	4.7	5.9	7.5	5.9	5.1
57.5°	4.7	4.7	5.5	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	4.0	4.3	4.3
72.5°	4.0	4.0	3.6	4.0	3.6
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
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°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.3	4.7	4.3



(END OF REPORT)