

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: P283627

Luminaire Tested: **LDA2B10D2WD010 EU2B10FL40D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283627
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 657.5 lumens
Efficiency: N/A
Efficacy: 65.8 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

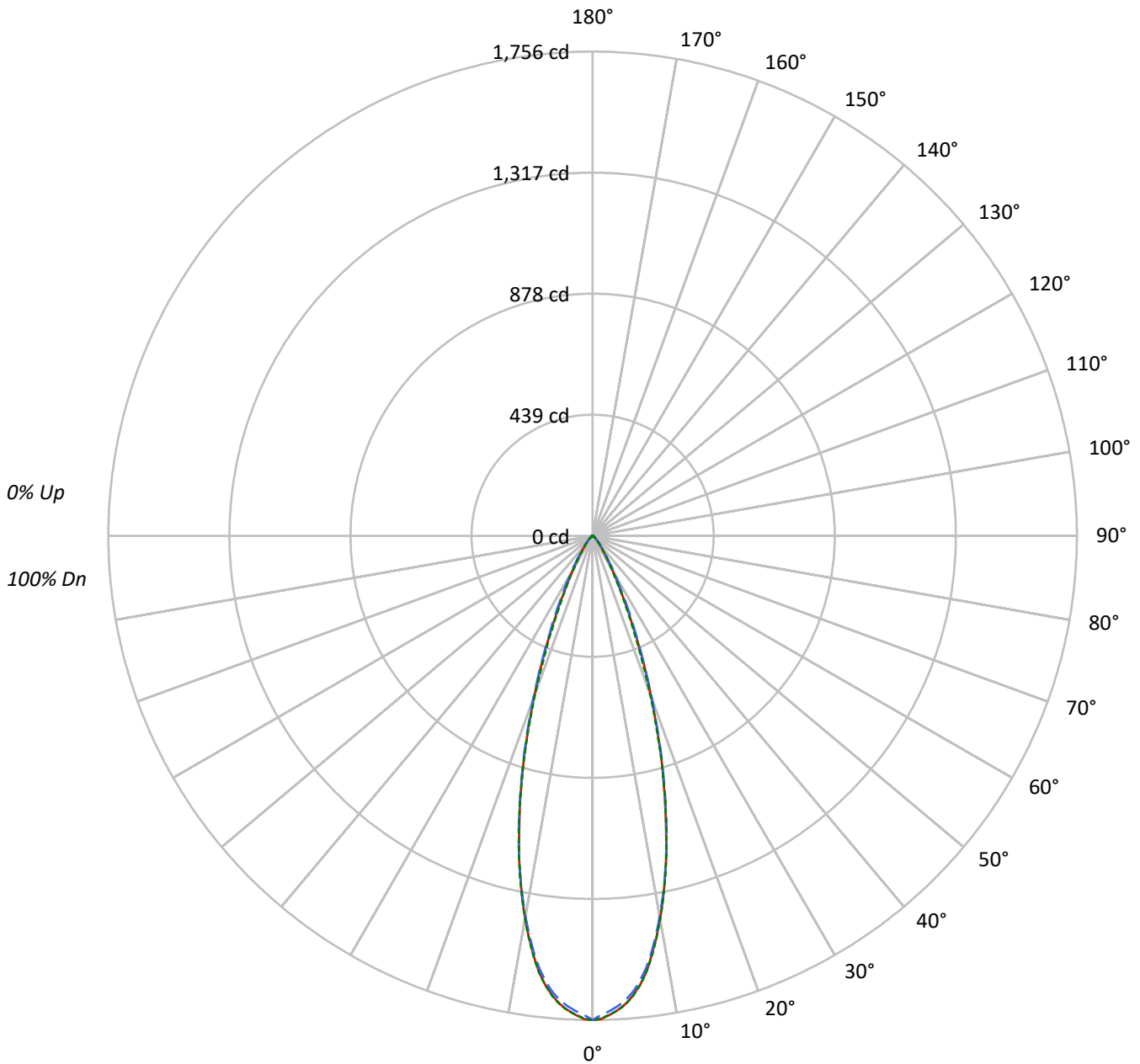
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	866343	866343	866343
5°	829092	822852	830380
10°	706321	701913	707073
15°	520623	523995	522309
20°	324990	331028	317850
25°	167882	180130	159444
30°	80497	92232	76680
35°	41558	46014	38908
40°	23314	24473	22091
45°	14164	14164	13675
50°	7368	9057	7368
55°	3785	6021	4129
60°	4342	4342	4342
65°	4786	4786	4786
70°	5914	5337	5914
75°	5719	5719	5719
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	23.0
10°-20°	277.4	42.2
20°-30°	150.4	22.9
30°-40°	48.3	7.3
40°-50°	16.5	2.5
50°-60°	5.8	0.9
60°-70°	4.2	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°	578.9	88.0
0°-40°	627.2	95.4
0°-60°	649.4	98.8
0°-90°	657.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	657.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1674	1664	1662	1678	1677	151
15°	1019	1028	1026	1031	1023	276
25°	308	322	331	308	293	148
35°	69	72	76	69	65	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°	1756.0	1756.0	1756.0	1756.0	1756.0
1°	1753.0	1740.5	1738.6	1754.9	1751.2
2°	1739.0	1727.2	1725.4	1741.6	1738.3
3°	1723.5	1712.8	1709.1	1726.1	1723.9
4°	1702.8	1692.9	1689.6	1706.5	1704.7
5°	1674.1	1663.7	1661.5	1678.1	1676.7
6°	1638.7	1630.2	1626.1	1642.7	1639.8
7°	1594.4	1586.6	1582.2	1594.4	1595.9
8°	1536.8	1533.2	1528.0	1540.2	1540.2
9°	1475.6	1472.3	1466.8	1477.8	1477.8
10°	1409.9	1407.7	1401.1	1411.4	1411.4
11°	1338.0	1336.9	1332.1	1340.6	1340.6
12°	1262.4	1265.0	1260.5	1267.9	1265.3
13°	1186.8	1185.6	1186.0	1191.6	1187.5
14°	1101.2	1107.8	1108.9	1112.2	1106.0
15°	1019.3	1027.8	1025.9	1030.7	1022.6
16°	935.5	945.1	944.8	945.9	938.1
17°	857.3	862.9	863.2	862.1	852.5
18°	774.0	781.7	781.7	779.9	768.4
19°	692.4	698.3	702.4	698.3	685.0
20°	619.0	623.1	630.5	620.1	605.4
21°	548.6	552.2	558.5	546.3	530.1
22°	481.0	485.8	491.7	477.7	460.8
23°	418.0	429.0	431.2	412.1	397.7
24°	360.0	372.6	376.3	356.7	341.6
25°	308.4	322.4	330.9	308.0	292.9
26°	263.8	277.4	287.7	264.9	250.5
27°	224.7	239.0	249.7	228.3	214.7
28°	191.1	205.1	216.2	196.3	183.3
29°	166.0	174.1	185.2	168.6	156.8
30°	141.3	150.1	161.9	145.0	134.6
32.5°	97.0	101.8	111.0	100.7	92.6
35°	69.0	71.9	76.4	69.4	64.6
37.5°	49.1	50.5	53.1	49.1	46.5
40°	36.2	36.9	38.0	35.8	34.3
42.5°	26.9	27.3	27.3	26.6	25.8
45°	20.3	20.7	20.3	20.3	19.6
47.5°	14.8	15.9	15.5	15.5	14.4
50°	9.6	11.8	11.8	11.4	9.6
52.5°	5.9	8.1	9.2	8.1	6.3
55°	4.4	5.5	7.0	5.5	4.8
57.5°	4.4	4.4	5.2	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°	4.1	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°	1.8	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°	4.1	4.4	4.1	4.4	4.1



(END OF REPORT)