

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: P282448

Luminaire Tested: **LDA2B20D2WD010 EU2B20NFL25D2W 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B20D2WD010 EU2B20NFL25D2W 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1360.2 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

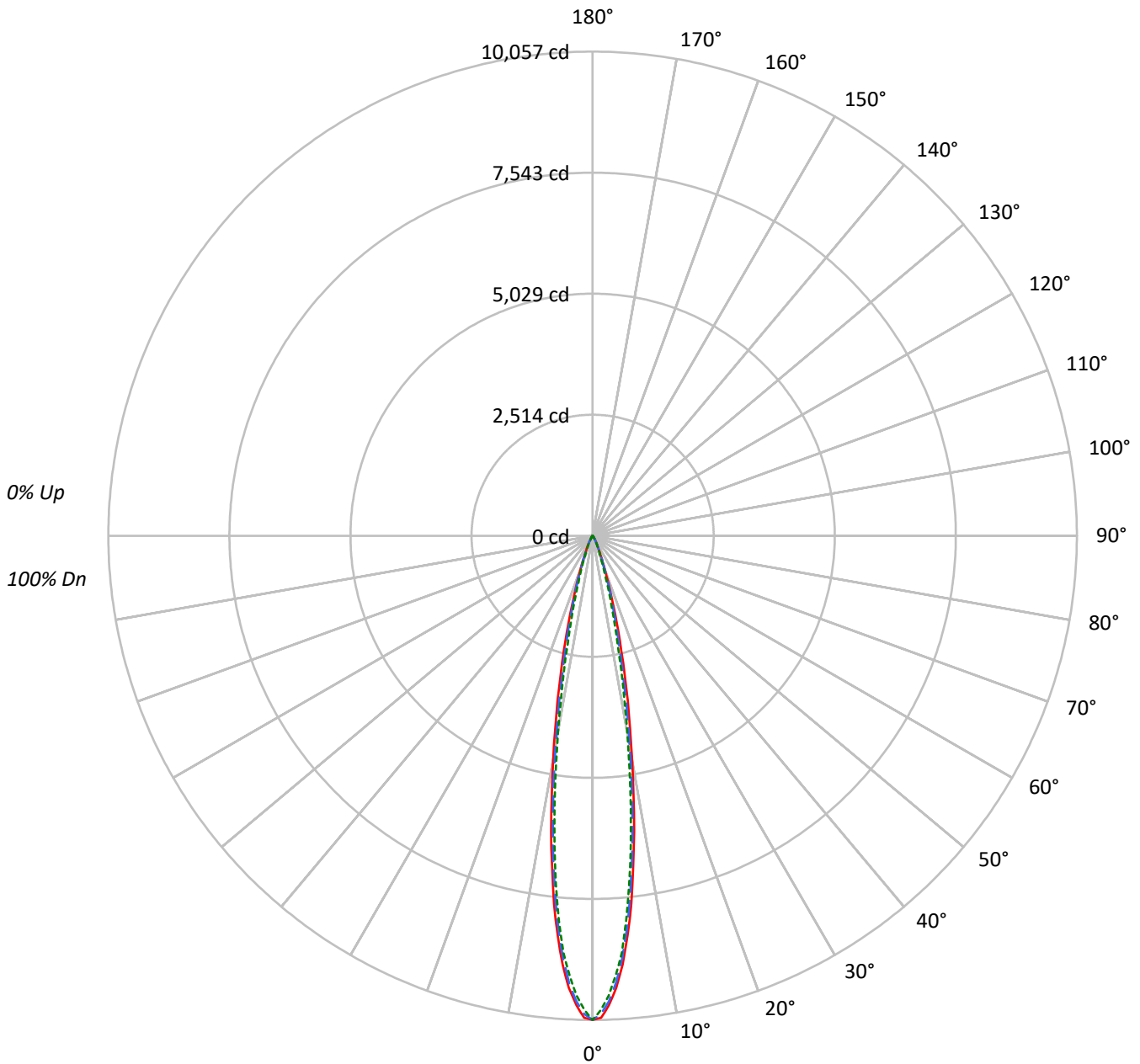
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4961789	4961789	4961789
5°	4128720	4053047	3971232
10°	2364892	2219159	2071121
15°	1051871	934190	782851
20°	381588	358749	284248
25°	146543	136799	117800
30°	63178	58792	52126
35°	29873	29873	24754
40°	15006	15457	12494
45°	8652	8094	7605
50°	5987	5373	5373
55°	4645	3355	4043
60°	3848	2269	3059
65°	2685	1868	2685
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.1	48.1
10°-20°	529.3	38.9
20°-30°	127.6	9.4
30°-40°	32.5	2.4
40°-50°	9.7	0.7
50°-60°	4.1	0.3
60°-70°	2.0	0.1
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	1311.1	96.4
0°-40°	1343.6	98.8
0°-60°	1357.5	99.8
0°-90°	1360.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10057	10057	10057	10057	10057	
5°	8337	8260	8184	8112	8019	674
15°	2059	2010	1829	1648	1533	587
25°	269	271	251	228	216	139
35°	50	50	50	45	41	34
45°	12	12	12	11	11	11
55°	5	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10057.1	10057.1	10057.1	10057.1	10057.1
1°	10012.1	9942.3	9933.8	9977.2	9849.2
2°	9756.1	9706.5	9677.8	9703.4	9558.4
3°	9404.8	9356.7	9304.7	9305.5	9143.4
4°	8926.2	8888.2	8800.5	8774.2	8680.3
5°	8336.7	8259.9	8183.9	8112.5	8018.7
6°	7685.2	7585.9	7477.3	7371.0	7274.8
7°	6918.8	6852.9	6709.4	6564.3	6482.9
8°	6198.2	6092.0	5924.4	5742.9	5673.9
9°	5423.4	5347.3	5155.0	4944.0	4875.0
10°	4720.6	4641.5	4429.7	4194.7	4134.2
11°	4061.3	3986.9	3766.6	3519.9	3455.5
12°	3503.6	3398.1	3145.3	2931.2	2868.4
13°	2948.3	2876.1	2636.4	2424.7	2302.9
14°	2475.9	2416.2	2199.0	2012.8	1884.1
15°	2059.4	2010.5	1829.0	1647.5	1532.7
16°	1689.4	1659.1	1515.6	1340.3	1246.5
17°	1370.6	1342.7	1251.1	1089.8	1010.7
18°	1106.9	1103.0	1027.0	887.3	816.8
19°	910.6	909.1	839.3	722.1	664.0
20°	726.8	736.9	683.3	581.0	541.4
21°	592.6	598.0	555.4	477.8	442.1
22°	482.5	486.3	458.4	394.8	375.4
23°	395.6	397.9	374.6	327.3	310.3
24°	325.8	327.3	306.4	273.0	258.3
25°	269.2	270.7	251.3	228.0	216.4
26°	223.4	224.9	207.9	191.6	180.0
27°	185.4	188.5	171.4	161.3	148.9
28°	158.2	159.0	143.5	137.3	125.7
29°	129.5	134.2	121.0	115.6	107.0
30°	110.9	113.2	103.2	99.3	91.5
32.5°	73.7	75.2	70.6	67.5	61.3
35°	49.6	50.4	49.6	45.0	41.1
37.5°	34.1	34.1	34.9	29.5	27.9
40°	23.3	23.3	24.0	20.2	19.4
42.5°	17.1	17.1	16.3	14.0	14.0
45°	12.4	12.4	11.6	10.9	10.9
47.5°	10.1	9.3	8.5	8.5	8.5
50°	7.8	7.8	7.0	6.2	7.0
52.5°	6.2	6.2	5.4	5.4	5.4
55°	5.4	4.7	3.9	3.9	4.7
57.5°	3.9	3.9	3.1	3.1	3.9
60°	3.9	3.1	2.3	3.1	3.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.3	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.1	2.3	2.3	2.3	2.3
65°	2.3	2.3	1.6	1.6	2.3



(END OF REPORT)