

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: P282447

Luminaire Tested: **LDA2B20D2WD010 EU2B20NFL25D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282447
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1359.4 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

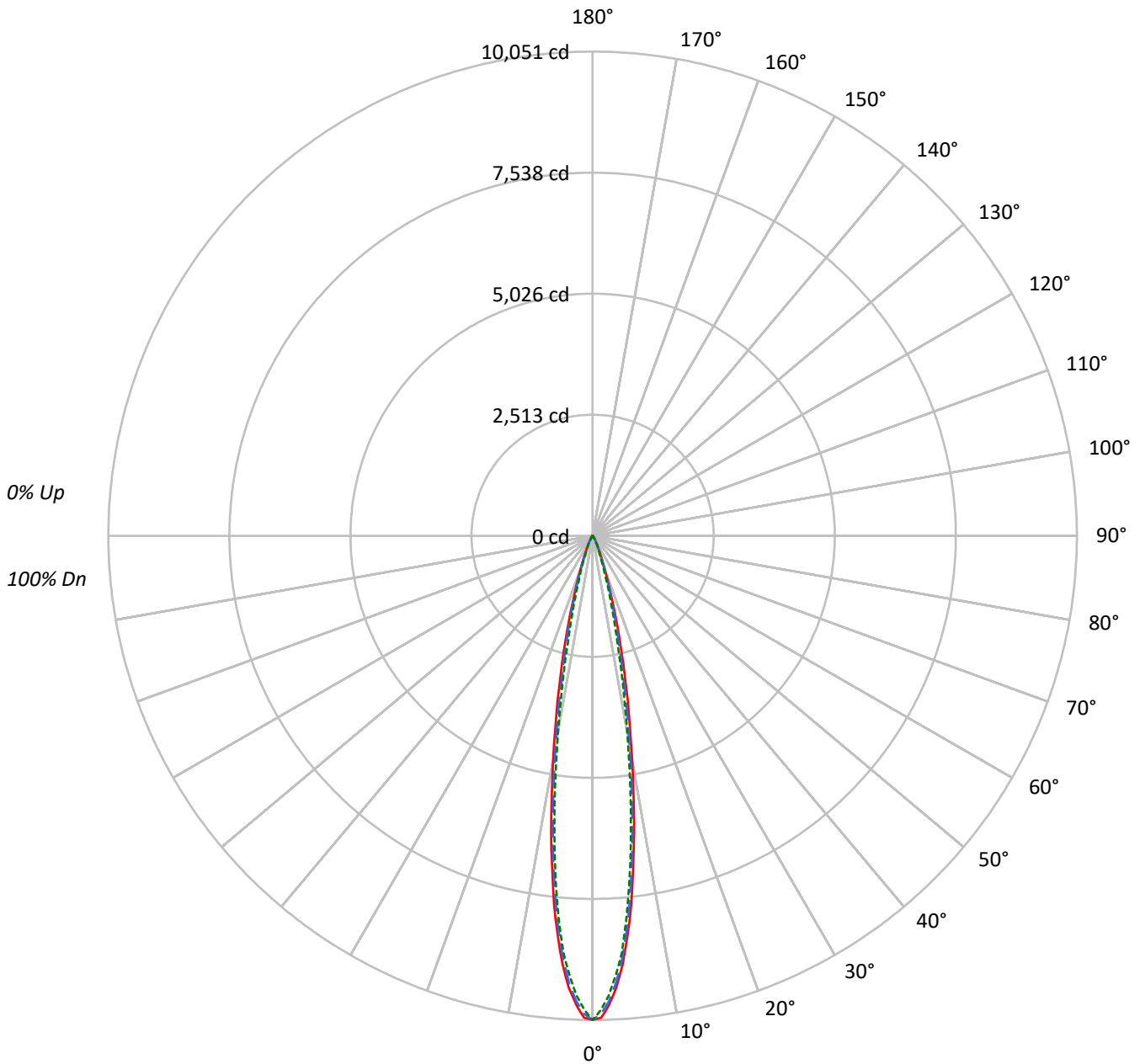
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	4958977	4958977	4958977
5°	4126393	4050719	3968954
10°	2363539	2217906	2069969
15°	1051258	933629	782391
20°	381378	358592	284091
25°	146434	136744	117746
30°	63178	58735	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°	653.7	48.1
10°-20°	529.0	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°	1310.3	96.4
0°-40°	1342.9	98.8
0°-60°	1356.7	99.8
0°-90°	1359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10051	10051	10051	10051	10051	
5°	8332	8255	8179	8108	8014	674
15°	2058	2009	1828	1646	1532	587
25°	269	270	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10051.4	10051.4	10051.4	10051.4	10051.4
1°	10006.4	9936.6	9928.1	9971.5	9843.6
2°	9750.6	9701.0	9672.3	9697.9	9552.9
3°	9399.4	9351.4	9299.4	9300.2	9138.2
4°	8921.1	8883.1	8795.5	8769.2	8675.4
5°	8332.0	8255.2	8179.2	8107.9	8014.1
6°	7680.8	7581.6	7473.0	7366.8	7270.7
7°	6914.9	6849.0	6705.6	6560.6	6479.2
8°	6194.7	6088.5	5921.1	5739.7	5670.7
9°	5420.3	5344.3	5152.0	4941.2	4872.2
10°	4717.9	4638.9	4427.2	4192.3	4131.9
11°	4059.0	3984.6	3764.4	3517.9	3453.6
12°	3501.6	3396.2	3143.5	2929.5	2866.7
13°	2946.6	2874.5	2634.9	2423.3	2301.6
14°	2474.5	2414.8	2197.7	2011.7	1883.0
15°	2058.2	2009.3	1827.9	1646.5	1531.8
16°	1688.4	1658.2	1514.8	1339.6	1245.8
17°	1369.8	1341.9	1250.4	1089.2	1010.1
18°	1106.2	1102.3	1026.4	886.8	816.3
19°	910.1	908.5	838.8	721.7	663.6
20°	726.4	736.4	683.0	580.6	541.1
21°	592.3	597.7	555.1	477.5	441.9
22°	482.2	486.1	458.1	394.6	375.2
23°	395.4	397.7	374.4	327.1	310.1
24°	325.6	327.1	306.2	272.9	258.1
25°	269.0	270.5	251.2	227.9	216.3
26°	223.3	224.8	207.8	191.5	179.8
27°	185.3	188.4	171.3	161.2	148.8
28°	158.1	158.9	143.4	137.2	125.6
29°	129.5	134.1	120.9	115.5	107.0
30°	110.9	113.2	103.1	99.2	91.5
32.5°	73.6	75.2	70.5	67.4	61.2
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)