

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: P282786

Luminaire Tested: **LDA2B20D2WD010 EU2B20NFL25D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282786  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1249.3 lumens  
Efficiency: N/A  
Efficacy: 60.6 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

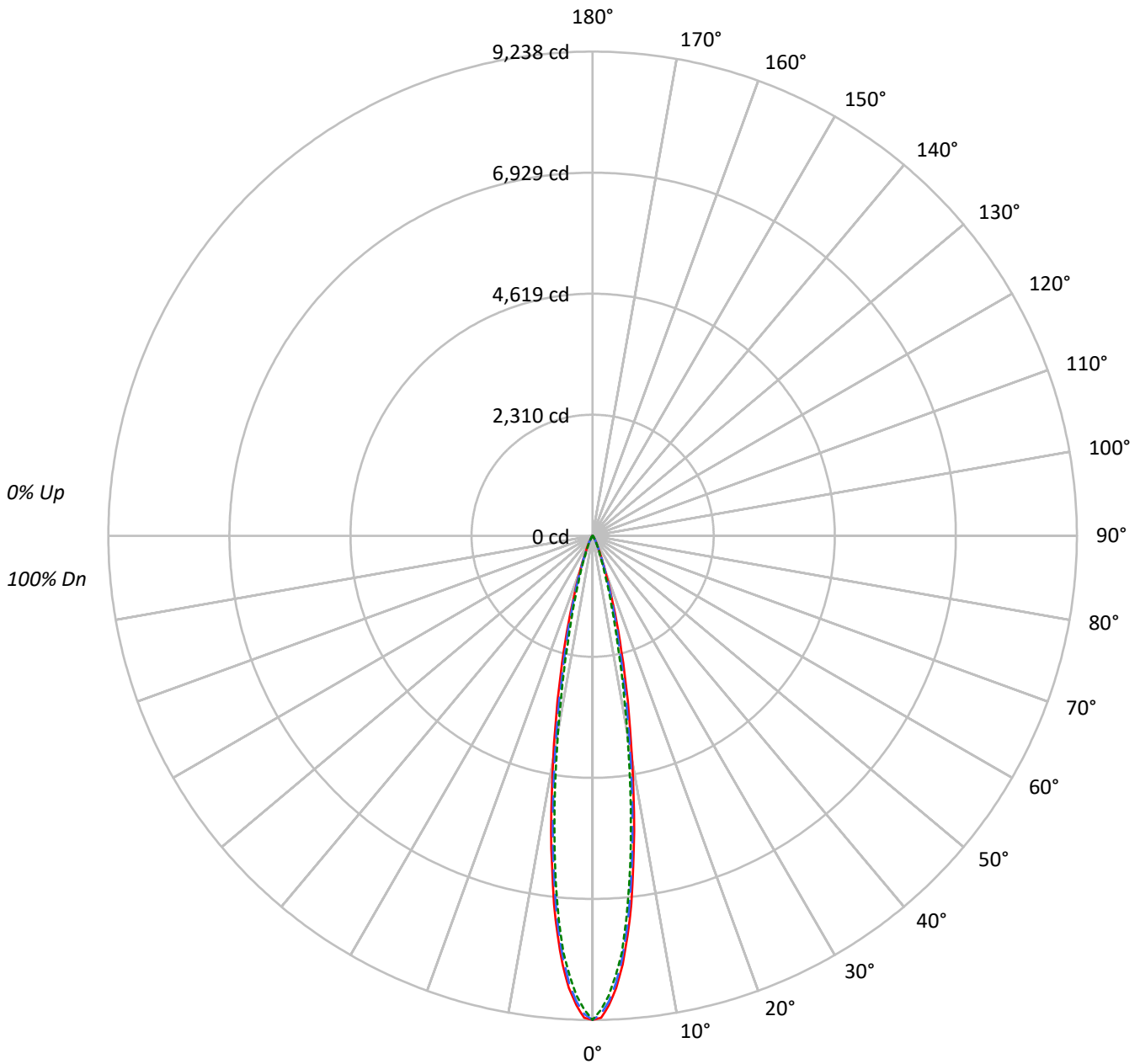
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4557479	4557479	4557479
5°	3792299	3722816	3647638
10°	2172218	2038358	1902394
15°	966164	858086	719056
20°	350506	329558	261095
25°	134567	125639	108220
30°	58051	54006	47911
35°	27464	27464	22766
40°	13782	14233	11464
45°	7954	7466	6977
50°	5449	4912	4912
55°	4301	3097	3699
60°	3552	2072	2763
65°	2452	1634	2452
70°	2019	1010	2019
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.8	48.1
10°-20°	486.2	38.9
20°-30°	117.2	9.4
30°-40°	29.9	2.4
40°-50°	8.9	0.7
50°-60°	3.8	0.3
60°-70°	1.8	0.1
70°-80°	0.6	0.0
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°	1204.3	96.4
0°-40°	1234.2	98.8
0°-60°	1246.9	99.8
0°-90°	1249.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1249.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9238	9238	9238	9238	9238	
5°	7657	7587	7517	7452	7365	619
15°	1892	1847	1680	1513	1408	539
25°	247	249	231	210	199	128
35°	46	46	46	41	38	31
45°	11	11	11	10	10	10
55°	5	4	4	4	4	4
65°	2	2	1	1	2	2
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°	9237.6	9237.6	9237.6	9237.6	9237.6
1°	9196.3	9132.2	9124.4	9164.3	9046.7
2°	8961.2	8915.6	8889.2	8912.8	8779.5
3°	8638.5	8594.3	8546.6	8547.3	8398.4
4°	8198.9	8164.0	8083.5	8059.2	7973.0
5°	7657.4	7586.9	7517.1	7451.5	7365.3
6°	7059.0	6967.8	6868.0	6770.4	6682.1
7°	6355.1	6294.5	6162.7	6029.5	5954.7
8°	5693.2	5595.6	5441.7	5275.0	5211.6
9°	4981.5	4911.6	4734.9	4541.2	4477.8
10°	4336.0	4263.3	4068.8	3852.9	3797.4
11°	3730.4	3662.0	3459.7	3233.1	3174.0
12°	3218.1	3121.2	2889.0	2692.4	2634.6
13°	2708.0	2641.8	2421.6	2227.1	2115.3
14°	2274.1	2219.3	2019.8	1848.8	1730.5
15°	1891.6	1846.7	1680.0	1513.2	1407.8
16°	1551.7	1523.9	1392.1	1231.1	1144.9
17°	1258.9	1233.3	1149.2	1001.0	928.3
18°	1016.7	1013.1	943.3	815.0	750.2
19°	836.4	835.0	770.9	663.3	609.9
20°	667.6	676.8	627.7	533.6	497.3
21°	544.3	549.3	510.1	438.9	406.1
22°	443.1	446.7	421.1	362.6	344.8
23°	363.3	365.5	344.1	300.7	285.0
24°	299.2	300.7	281.4	250.8	237.2
25°	247.2	248.6	230.8	209.5	198.8
26°	205.2	206.6	190.9	176.0	165.3
27°	170.3	173.1	157.5	148.2	136.8
28°	145.3	146.1	131.8	126.1	115.4
29°	119.0	123.3	111.1	106.2	98.3
30°	101.9	104.0	94.8	91.2	84.1
32.5°	67.7	69.1	64.8	62.0	56.3
35°	45.6	46.3	45.6	41.3	37.8
37.5°	31.3	31.3	32.1	27.1	25.6
40°	21.4	21.4	22.1	18.5	17.8
42.5°	15.7	15.7	15.0	12.8	12.8
45°	11.4	11.4	10.7	10.0	10.0
47.5°	9.3	8.5	7.8	7.8	7.8
50°	7.1	7.1	6.4	5.7	6.4
52.5°	5.7	5.7	5.0	5.0	5.0
55°	5.0	4.3	3.6	3.6	4.3
57.5°	3.6	3.6	2.8	2.8	3.6
60°	3.6	2.8	2.1	2.8	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	2.1	1.4	1.4	1.4	1.4
70°	1.4	1.4	0.7	0.7	1.4
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.8	2.1	2.1	2.1	2.1
65°	2.1	2.1	1.4	1.4	2.1



(END OF REPORT)