

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: P282493

Luminaire Tested: **LDA2B05D2WD010 EU2B05SP15D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05D2WD010 EU2B05SP15D2W 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 595.8 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

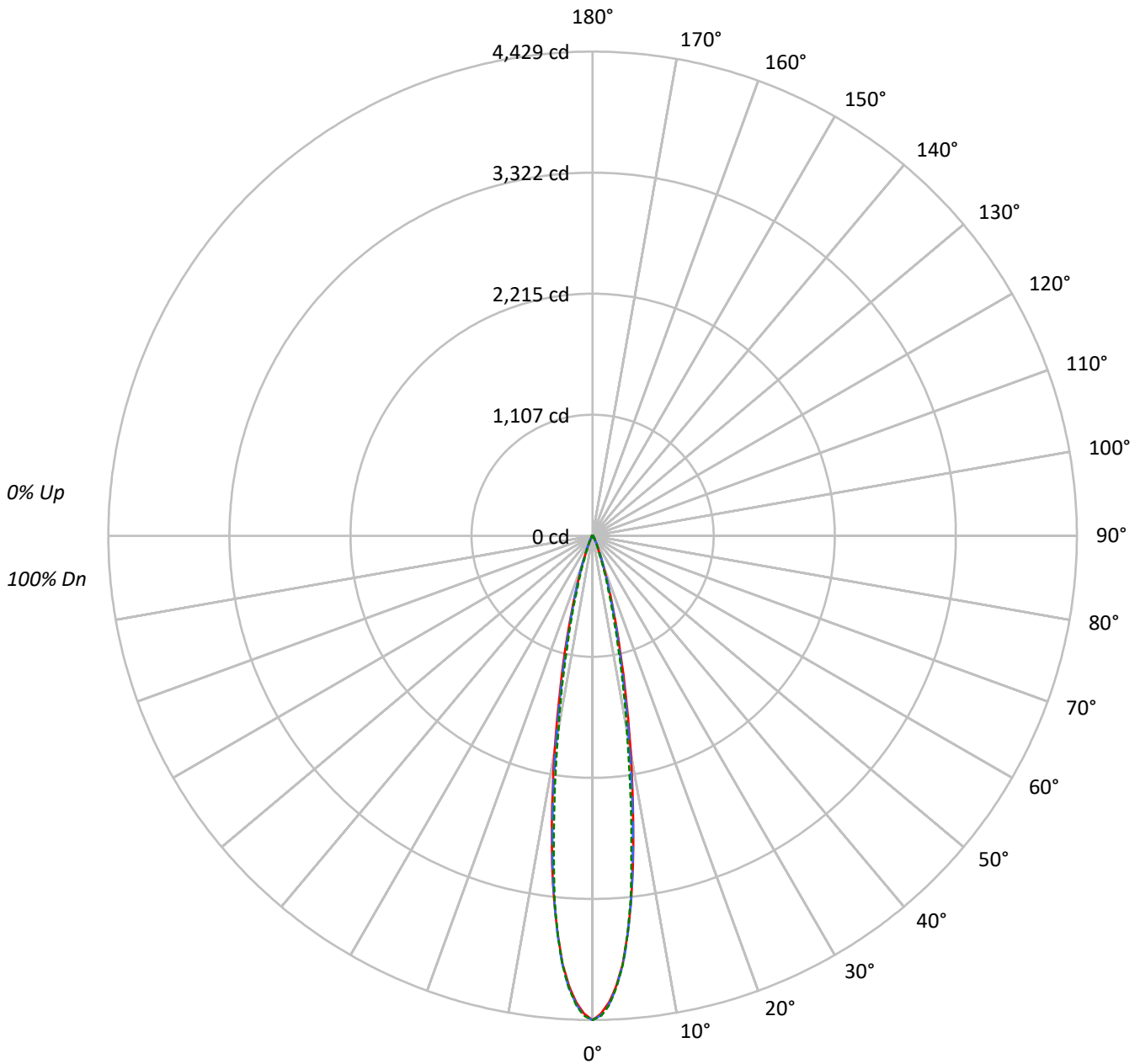
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96																
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	94	96	94																
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91	94	92	91																
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	94	92	89																
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	92	89	88																
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	90	88	86																
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	88	86	84																
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	87	84	82																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	85	82	81																
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	84	81	79																

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

	0°	45°	90°
0°	2185149	2185149	2185149
5°	1812800	1818693	1811809
10°	1003348	967078	900899
15°	406161	388437	344920
20°	136086	144277	116818
25°	51769	51987	49211
30°	23243	22844	22047
35°	11263	9998	7950
40°	7406	9403	6569
45°	1884	3070	2861
50°	537	768	1075
55°	4645	4129	6451
60°	6710	5328	8683
65°	3152	8288	7938
70°	2885	2452	2885
75°	1334	3241	9150
80°	15342	21309	19320
85°	0	9623	11321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.1	48.7
10°-20°	219.7	36.9
20°-30°	49.9	8.4
30°-40°	14.8	2.5
40°-50°	4.9	0.8
50°-60°	4.3	0.7
60°-70°	5.2	0.9
70°-80°	3.3	0.6
80°-90°	3.5	0.6
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°	559.8	94.0
0°-40°	574.5	96.4
0°-60°	583.8	98.0
0°-90°	595.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4429	4429	4429	4429	4429	
5°	3660	3689	3672	3624	3658	293
15°	795	806	760	689	675	231
25°	95	102	96	94	90	50
35°	19	21	17	19	13	15
45°	3	8	4	8	4	4
55°	5	8	5	7	8	2
65°	3	6	7	7	7	3
75°	1	2	2	3	5	2
85°	0	0	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4429.1	4429.1	4429.1	4429.1	4429.1
1°	4372.0	4389.7	4388.0	4380.9	4393.4
2°	4271.5	4292.9	4290.9	4275.2	4297.6
3°	4124.1	4143.1	4140.0	4117.6	4142.1
4°	3927.1	3948.8	3940.3	3906.7	3937.9
5°	3660.4	3689.3	3672.3	3624.4	3658.4
6°	3364.9	3389.3	3362.5	3299.0	3332.3
7°	3034.0	3049.3	3014.0	2932.5	2910.0
8°	2672.9	2693.0	2643.7	2548.6	2524.2
9°	2327.8	2334.6	2274.8	2173.6	2142.7
10°	2002.8	1997.7	1930.4	1827.8	1798.3
11°	1694.7	1687.9	1616.9	1522.1	1531.6
12°	1414.4	1427.7	1345.1	1259.2	1260.9
13°	1184.1	1185.5	1114.5	1032.6	1027.9
14°	969.4	982.0	921.2	847.8	834.3
15°	795.2	806.1	760.5	689.2	675.3
16°	636.6	650.1	617.5	553.0	534.7
17°	512.6	529.9	508.5	454.5	433.4
18°	410.0	423.2	418.1	362.4	345.1
19°	323.7	342.1	343.4	296.9	276.2
20°	259.2	275.8	274.8	238.8	222.5
22.5°	148.8	157.6	158.0	141.0	131.5
25°	95.1	102.2	95.5	94.4	90.4
26°	82.5	88.3	80.8	80.8	77.1
27°	66.9	72.0	64.9	67.9	62.8
28°	56.4	61.8	55.7	55.0	54.3
29°	46.9	52.0	44.2	47.6	45.5
30°	40.8	44.5	40.1	45.2	38.7
32.5°	31.6	34.6	26.8	34.0	25.5
35°	18.7	20.7	16.6	19.4	13.2
37.5°	19.4	20.0	18.0	20.0	18.7
40°	11.5	11.9	14.6	14.6	10.2
42.5°	10.9	10.5	6.5	10.2	8.2
45°	2.7	7.8	4.4	7.8	4.1
47.5°	2.0	2.7	2.7	5.4	5.4
50°	0.7	2.7	1.0	2.0	1.4
52.5°	0.0	6.5	1.4	4.8	4.1
55°	5.4	7.8	4.8	7.1	7.5
57.5°	0.7	5.4	2.7	5.8	4.1
60°	6.8	9.2	5.4	9.9	8.8
62.5°	0.7	6.1	7.1	5.4	4.8
65°	2.7	5.8	7.1	6.8	6.8
67.5°	3.4	5.8	4.4	4.4	6.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.7	2.4	1.7	3.1	4.8
77.5°	0.7	2.7	2.4	5.4	4.1
80°	5.4	6.1	7.5	9.9	6.8
82.5°	4.8	4.8	7.5	5.4	4.1
85°	0.0	0.0	1.7	1.7	2.0
87.5°	0.0	1.4	3.4	2.7	4.8
90°	0.0	0.0	0.0	0.0	0.0



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







70°	2.0	0.7	1.7	1.7	2.0
72.5°	0.7	3.1	2.7	1.7	3.4



(END OF REPORT)