

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: P281104

Luminaire Tested: **LDA2B05D2WD010 EU2B05SP15D2W 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05D2WD010 EU2B05SP15D2W 2LBALD1WHH  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, WHH  
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): 0.33 / 0.31 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

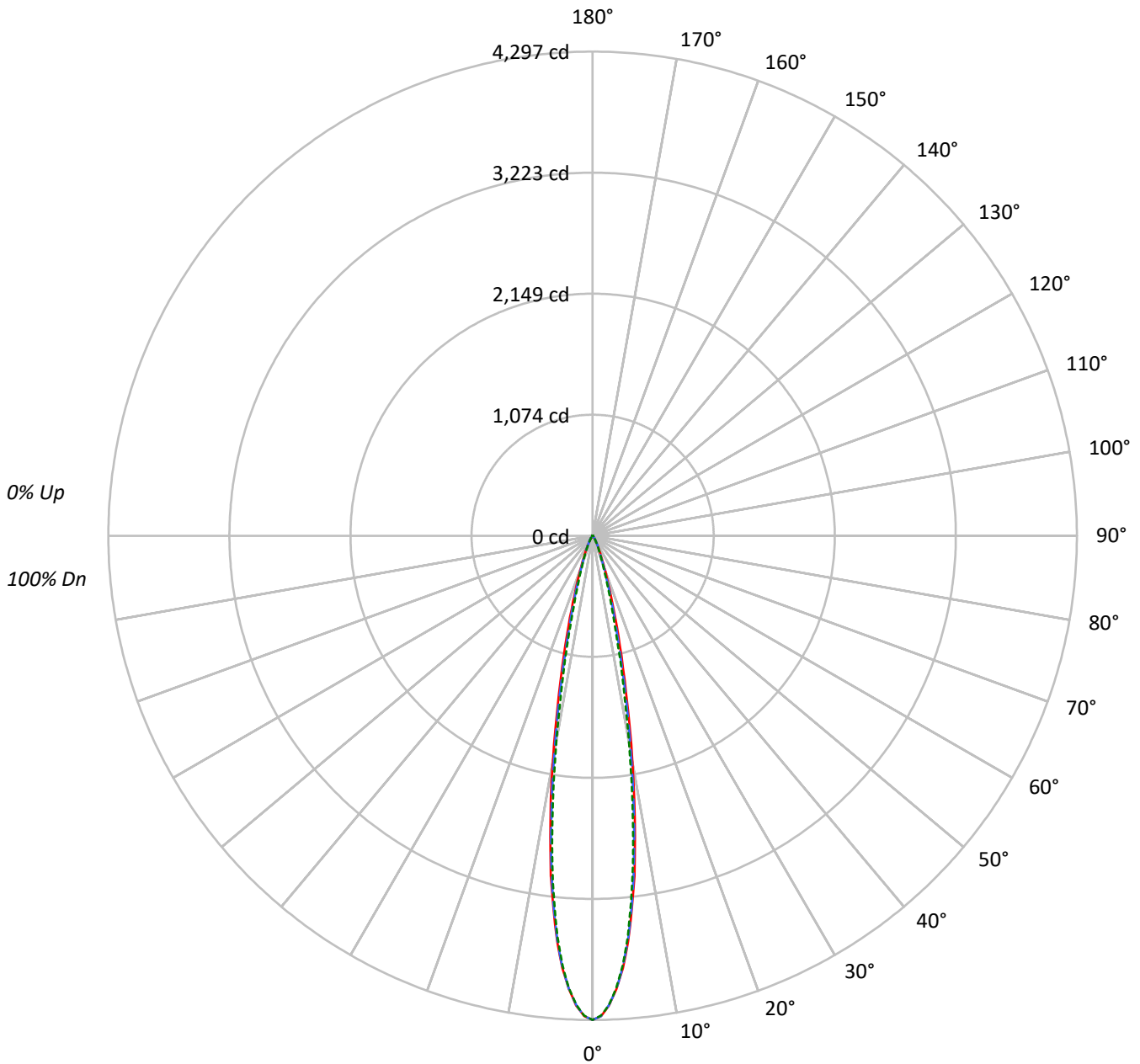
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									20
RC	80									70									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	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	111	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97																												
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95																												
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92																												
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90																												
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	93	90	89	88																												
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86																												
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84																												
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82																												
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80																												
10	92	86	83	80	91	86	82	80	85	82	80	85	82	80	84	81	80	79																												

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

	0°	45°	90°
0°	2119926	2119926	2119926
5°	1791108	1781550	1768426
10°	1019479	974592	925046
15°	422199	373932	329444
20°	160605	140654	128789
25°	70931	68154	60588
30°	32814	36289	28883
35°	17286	20357	16141
40°	7600	8759	5023
45°	2930	2302	3349
50°	1382	1612	2303
55°	0	1032	0
60°	0	0	592
65°	0	0	0
70°	0	433	0
75°	0	0	0
80°	1705	0	0
85°	16982	15284	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	48.2
10°-20°	219.6	36.9
20°-30°	61.1	10.3
30°-40°	19.9	3.3
40°-50°	4.4	0.7
50°-60°	1.3	0.2
60°-70°	0.8	0.1
70°-80°	0.5	0.1
80°-90°	1.0	0.2
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°	568.0	95.3
0°-40°	587.9	98.7
0°-60°	593.6	99.6
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°	4297	4297	4297	4297	4297	
5°	3617	3590	3597	3570	3571	292
15°	827	798	732	676	645	241
25°	130	132	125	118	111	65
35°	29	31	34	26	27	19
45°	4	6	3	3	5	4
55°	0	2	1	1	0	1
65°	0	1	0	0	0	1
75°	0	0	0	1	0	0
85°	3	2	3	2	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4296.9	4296.9	4296.9	4296.9	4296.9
1°	4264.0	4248.0	4263.4	4254.4	4259.5
2°	4171.4	4151.5	4167.5	4154.8	4165.4
3°	4027.2	4011.8	4026.0	4010.0	4018.5
4°	3846.5	3824.2	3838.4	3816.9	3822.1
5°	3616.6	3590.1	3597.3	3570.5	3570.8
6°	3327.0	3308.6	3312.9	3270.9	3267.9
7°	3043.8	3000.3	2995.8	2947.9	2938.5
8°	2699.9	2660.4	2647.4	2591.0	2571.1
9°	2370.2	2321.0	2294.4	2229.0	2205.8
10°	2035.0	1985.2	1945.4	1871.5	1846.5
11°	1724.9	1680.0	1630.5	1551.5	1527.0
12°	1437.1	1401.8	1347.5	1271.2	1245.6
13°	1202.1	1161.4	1103.2	1032.3	1010.3
14°	998.5	954.8	896.5	835.9	793.1
15°	826.6	797.9	732.1	675.7	645.0
16°	675.4	651.0	594.3	545.4	523.7
17°	553.9	534.2	486.0	447.7	429.6
18°	457.0	432.6	394.6	369.5	355.4
19°	370.7	351.7	324.0	304.7	290.5
20°	305.9	290.2	267.9	250.7	245.3
22.5°	197.6	194.9	180.4	171.0	166.5
25°	130.3	131.8	125.2	118.0	111.3
26°	111.3	112.2	106.2	102.0	93.5
27°	95.3	95.6	95.6	87.8	79.6
28°	77.8	81.1	78.1	74.5	66.7
29°	66.7	70.9	69.4	65.8	58.2
30°	57.6	60.6	63.7	57.9	50.7
32.5°	40.4	43.1	46.5	43.4	37.4
35°	28.7	31.1	33.8	25.6	26.8
37.5°	19.6	23.8	22.9	20.8	17.8
40°	11.8	12.4	13.6	14.5	7.8
42.5°	8.4	10.0	9.0	10.3	3.6
45°	4.2	6.0	3.3	3.3	4.8
47.5°	3.0	5.1	1.8	1.8	0.6
50°	1.8	3.9	2.1	0.9	3.0
52.5°	3.0	3.6	2.4	2.7	0.6
55°	0.0	1.8	1.2	0.6	0.0
57.5°	1.2	2.1	1.2	0.6	1.2
60°	0.0	0.0	0.0	0.3	0.6
62.5°	0.0	0.6	0.0	0.9	1.2
65°	0.0	1.2	0.0	0.0	0.0
67.5°	1.8	2.1	1.2	2.4	3.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.6	0.0
77.5°	0.0	3.0	0.9	0.9	1.2
80°	0.6	0.0	0.0	0.3	0.0
82.5°	0.0	2.4	0.3	1.2	1.8
85°	3.0	1.5	2.7	1.5	1.2
87.5°	0.0	0.3	0.6	0.3	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.3	0.3	0.0
72.5°	0.6	0.0	0.0	0.0	0.0



(END OF REPORT)