

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: P315581

Luminaire Tested: **LDA2B05WFL9027D010 PIN1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05WFL9027D010 PIN1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 511.4 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

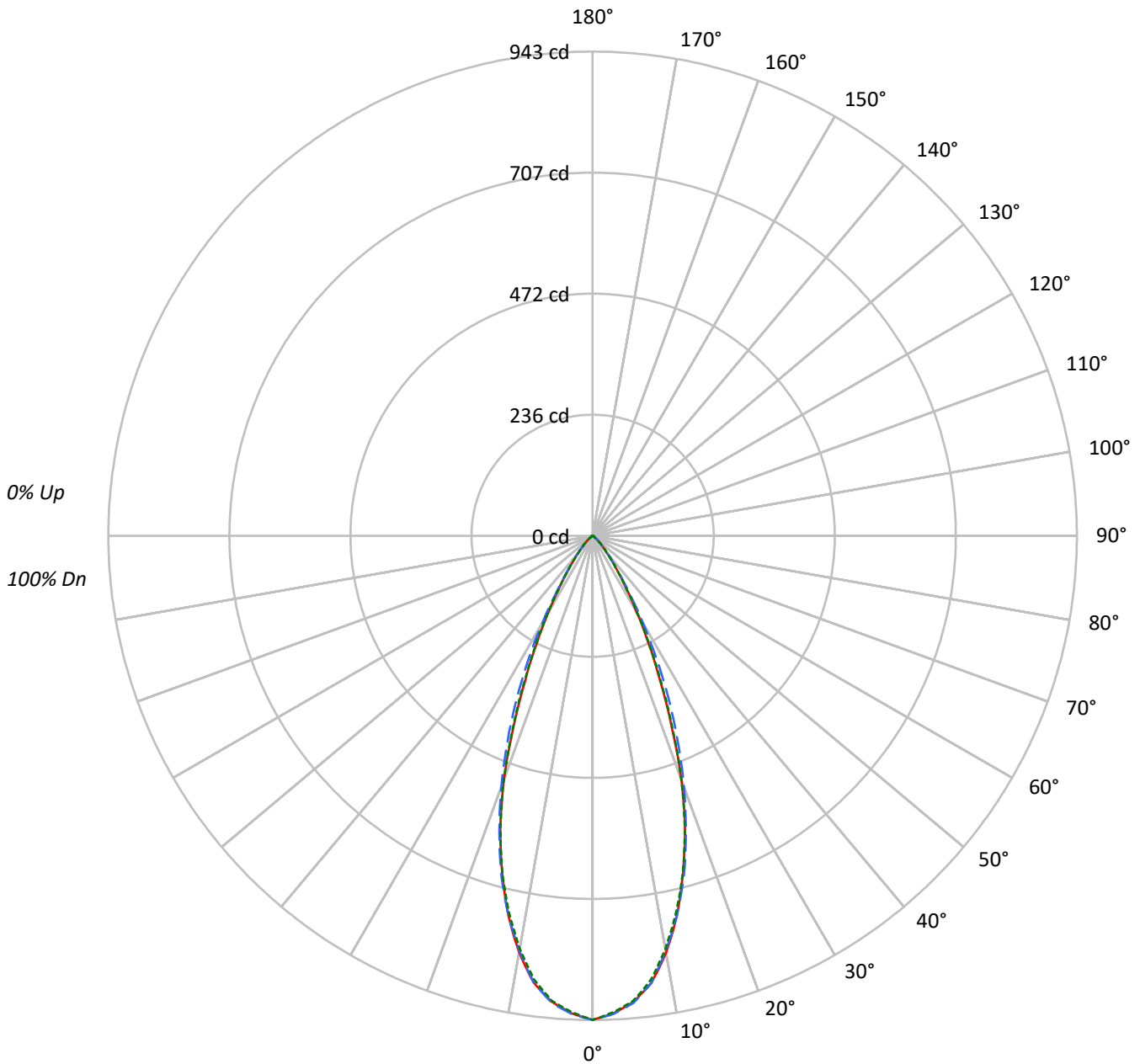
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	465191	465191	465191
5°	451219	452308	450228
10°	413002	411349	408894
15°	347372	350641	346810
20°	265662	272698	265242
25°	168699	190201	171965
30°	98100	110747	99809
35°	51857	55169	52037
40°	27372	28595	27372
45°	15280	15908	15489
50°	7138	9057	7138
55°	2580	4989	2838
60°	2960	2960	2960
65°	3152	3502	3152
70°	3895	3606	3895
75°	3622	3622	3622
80°	3978	3125	3978
85°	2830	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	16.5
10°-20°	187.4	36.6
20°-30°	151.3	29.6
30°-40°	59.8	11.7
40°-50°	18.4	3.6
50°-60°	4.7	0.9
60°-70°	2.8	0.6
70°-80°	2.1	0.4
80°-90°	0.6	0.1
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°	422.9	82.7
0°-40°	482.7	94.4
0°-60°	505.8	98.9
0°-90°	511.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	911	913	913	911	909	84
15°	680	682	686	684	679	187
25°	310	325	349	331	316	144
35°	86	89	92	89	86	58
45°	22	22	23	22	22	18
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.9	942.9	942.9	942.9	942.9
2.5°	931.1	931.6	932.5	931.4	928.6
5°	911.1	912.7	913.3	911.3	909.1
7.5°	878.2	876.2	877.9	874.6	871.8
10°	824.4	821.9	821.1	816.2	816.2
12.5°	758.0	757.2	757.8	755.3	751.5
15°	680.1	682.1	686.5	683.7	679.0
17.5°	597.6	600.3	604.2	603.4	597.0
20°	506.0	513.9	519.4	514.2	505.2
22.5°	401.8	418.8	432.8	421.8	407.0
25°	309.9	324.7	349.4	330.7	315.9
27.5°	235.0	245.7	268.2	249.8	239.7
30°	172.2	178.8	194.4	182.4	175.2
32.5°	123.1	127.8	134.4	127.3	123.7
35°	86.1	88.6	91.6	88.9	86.4
37.5°	60.6	61.4	63.6	61.4	60.3
40°	42.5	42.8	44.4	43.1	42.5
42.5°	30.7	30.7	31.5	31.0	30.7
45°	21.9	22.2	22.8	22.5	22.2
47.5°	15.6	16.2	16.2	16.5	15.4
50°	9.3	11.5	11.8	11.5	9.3
52.5°	4.9	6.9	8.5	6.9	4.9
55°	3.0	4.1	5.8	4.1	3.3
57.5°	3.0	3.0	3.8	3.3	3.0
60°	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.7	3.0	3.0	3.0	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.5	2.7	2.7
72.5°	2.5	2.5	2.2	2.5	2.5
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)