

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: P315602

Luminaire Tested: **LDA2B05WFL9040D010 PINW1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315602  
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: LDA2B05WFL9040D010 PINW1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, White oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 587.9 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

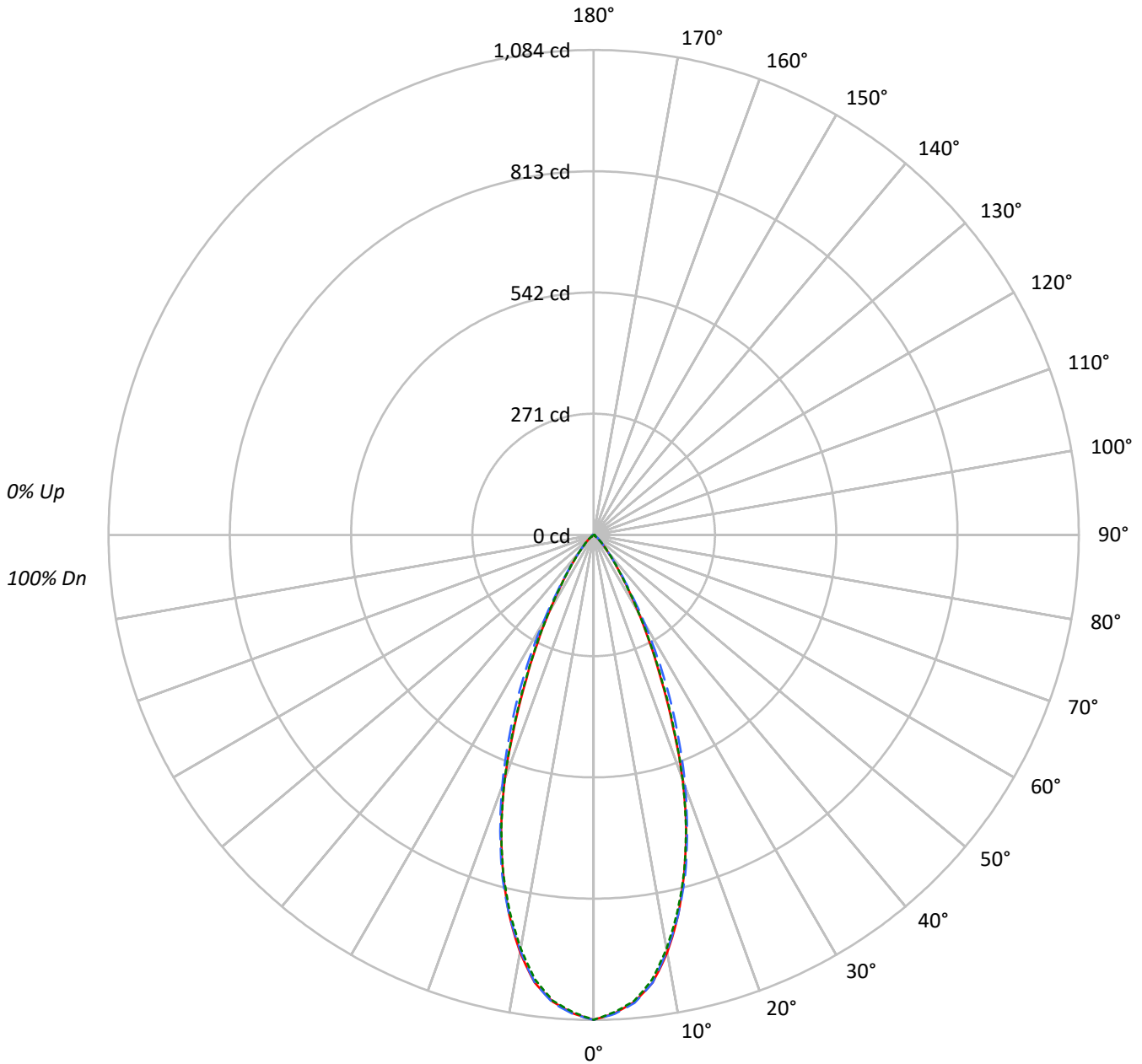
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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°	534755	534755	534755
5°	518672	519910	517582
10°	474772	472868	470013
15°	399368	403045	398704
20°	305407	313492	304882
25°	193903	218617	197713
30°	112798	127325	114792
35°	59626	63420	59807
40°	31493	32910	31493
45°	17583	18280	17792
50°	8213	10438	8213
55°	3011	5677	3269
60°	3454	3454	3454
65°	3736	4086	3736
70°	4616	4039	4616
75°	4194	4194	4194
80°	4546	3694	4546
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	16.5
10°-20°	215.4	36.6
20°-30°	174.0	29.6
30°-40°	68.8	11.7
40°-50°	21.1	3.6
50°-60°	5.4	0.9
60°-70°	3.3	0.6
70°-80°	2.4	0.4
80°-90°	0.7	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°	486.2	82.7
0°-40°	554.9	94.4
0°-60°	581.5	98.9
0°-90°	587.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1047	1049	1050	1048	1045	97
15°	782	784	789	786	781	215
25°	356	373	402	380	363	166
35°	99	102	105	102	99	66
45°	25	26	26	26	26	21
55°	4	5	7	5	4	4
65°	3	4	4	4	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1083.9	1083.9	1083.9	1083.9	1083.9
2.5°	1070.3	1071.0	1071.9	1070.6	1067.5
5°	1047.3	1049.2	1049.8	1047.6	1045.1
7.5°	1009.5	1007.3	1009.2	1005.4	1002.2
10°	947.7	944.9	943.9	938.2	938.2
12.5°	871.4	870.4	871.1	868.2	863.8
15°	781.9	784.1	789.1	786.0	780.6
17.5°	687.0	690.1	694.5	693.6	686.3
20°	581.7	590.8	597.1	591.1	580.7
22.5°	461.9	481.4	497.5	484.9	467.9
25°	356.2	373.3	401.6	380.2	363.2
27.5°	270.2	282.5	308.3	287.2	275.5
30°	198.0	205.6	223.5	209.7	201.5
32.5°	141.6	146.9	154.5	146.3	142.2
35°	99.0	101.8	105.3	102.1	99.3
37.5°	69.7	70.6	73.1	70.6	69.4
40°	48.9	49.2	51.1	49.5	48.9
42.5°	35.3	35.3	36.3	35.6	35.3
45°	25.2	25.5	26.2	25.9	25.5
47.5°	18.0	18.6	18.6	18.9	17.7
50°	10.7	13.2	13.6	13.2	10.7
52.5°	5.7	7.9	9.8	7.9	5.7
55°	3.5	4.7	6.6	4.7	3.8
57.5°	3.5	3.5	4.4	3.8	3.5
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.5	3.5	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.8	3.2	3.2
72.5°	2.8	2.8	2.5	2.8	2.8
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.3	1.6	1.6
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.6	0.6	0.6	0.6	0.6
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)