

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: P315597

Luminaire Tested: **LDA2B05WFL9040D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315597  
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 PIN1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 565.6 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

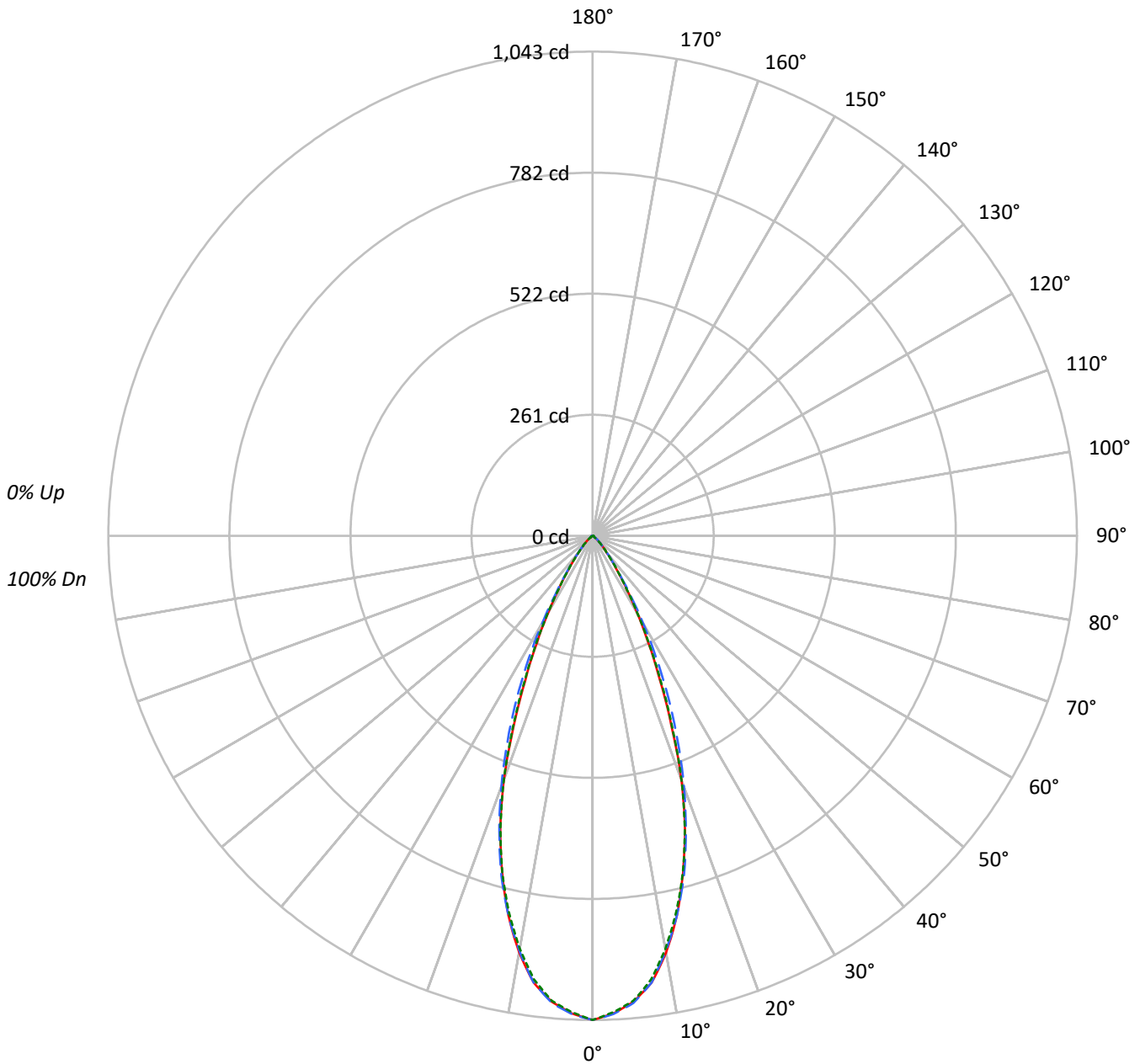
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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°	514576	514576	514576
5°	499109	500298	498020
10°	456837	455033	452278
15°	384249	387824	383636
20°	293856	301679	293384
25°	186608	210397	190255
30°	108525	122539	110405
35°	57398	61011	57578
40°	30270	31622	30270
45°	16955	17583	17164
50°	7906	9978	7906
55°	2838	5505	3097
60°	3256	3256	3256
65°	3502	3852	3502
70°	4327	3895	4327
75°	4003	4003	4003
80°	4262	3409	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	16.5
10°-20°	207.3	36.6
20°-30°	167.4	29.6
30°-40°	66.2	11.7
40°-50°	20.3	3.6
50°-60°	5.2	0.9
60°-70°	3.1	0.6
70°-80°	2.3	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°	467.8	82.7
0°-40°	534.0	94.4
0°-60°	559.5	98.9
0°-90°	565.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1008	1010	1010	1008	1006	93
15°	752	754	759	756	751	207
25°	343	359	386	366	350	160
35°	95	98	101	98	96	64
45°	24	25	25	25	25	20
55°	3	5	6	5	4	4
65°	3	3	3	3	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°	1043.0	1043.0	1043.0	1043.0	1043.0
2.5°	1029.9	1030.5	1031.4	1030.2	1027.2
5°	1007.8	1009.6	1010.2	1008.1	1005.6
7.5°	971.4	969.2	971.1	967.4	964.4
10°	911.9	909.2	908.3	902.8	902.8
12.5°	838.5	837.6	838.2	835.5	831.2
15°	752.3	754.5	759.3	756.3	751.1
17.5°	661.0	664.1	668.3	667.4	660.4
20°	559.7	568.5	574.6	568.8	558.8
22.5°	444.4	463.2	478.7	466.6	450.2
25°	342.8	359.2	386.5	365.9	349.5
27.5°	260.0	271.8	296.7	276.4	265.1
30°	190.5	197.8	215.1	201.7	193.8
32.5°	136.2	141.4	148.6	140.8	136.8
35°	95.3	98.0	101.3	98.3	95.6
37.5°	67.0	68.0	70.4	68.0	66.7
40°	47.0	47.3	49.1	47.6	47.0
42.5°	34.0	34.0	34.9	34.3	34.0
45°	24.3	24.6	25.2	24.9	24.6
47.5°	17.3	17.9	17.9	18.2	17.0
50°	10.3	12.7	13.0	12.7	10.3
52.5°	5.5	7.6	9.4	7.6	5.5
55°	3.3	4.6	6.4	4.6	3.6
57.5°	3.3	3.3	4.2	3.6	3.3
60°	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.3	3.3	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.4	2.7	2.7
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.2	1.5	1.5
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)