

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: P315594

Luminaire Tested: **LDA2B05WFL9035D010 PINW1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315594  
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: LDA2B05WFL9035D010 PINW1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, White oculus, matte metallic silver finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 575.7 lumens  
Efficiency: N/A  
Efficacy: 82.2 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

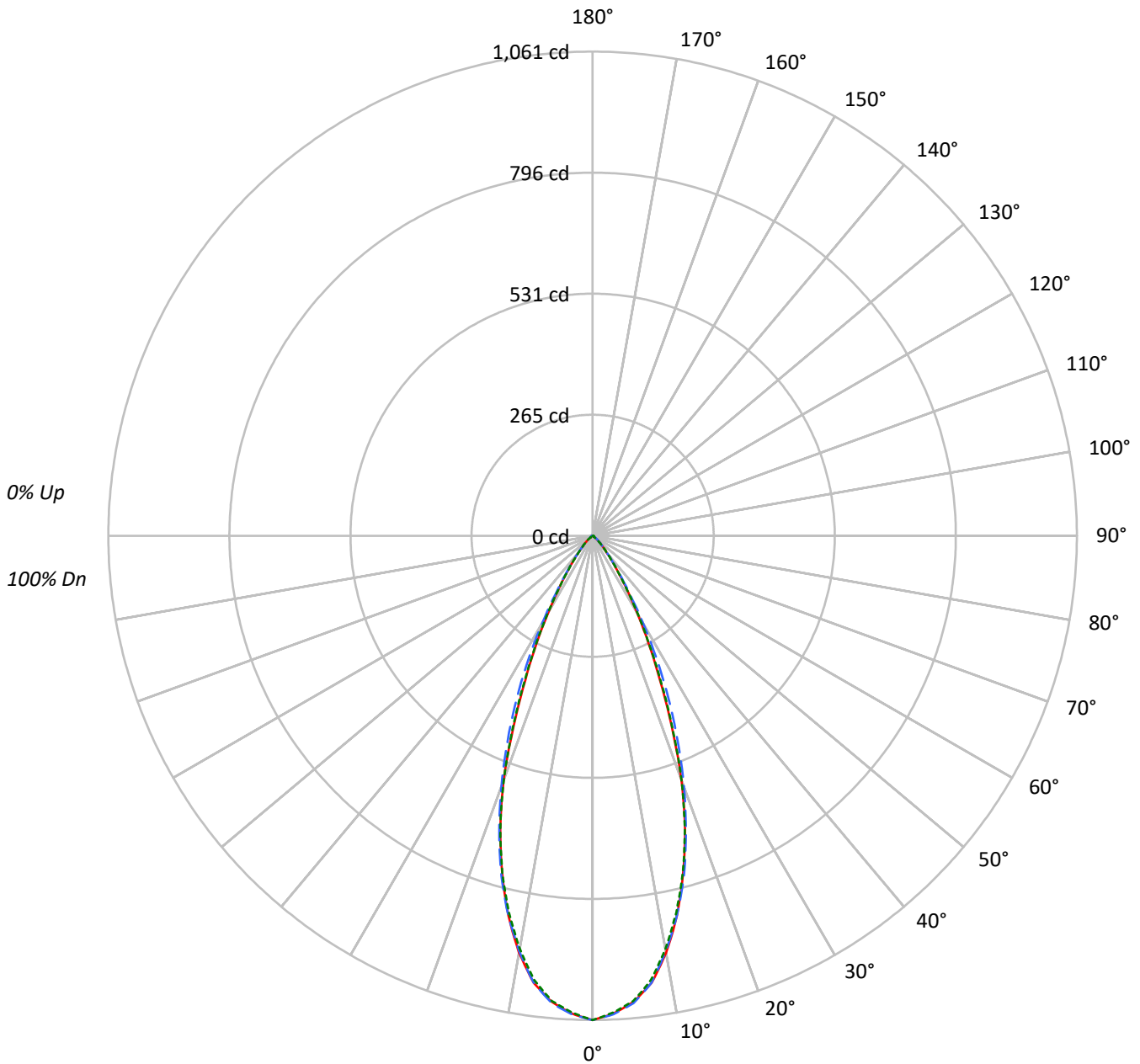
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	523605	523605	523605
5°	507875	509113	506786
10°	464903	463049	460244
15°	391042	394669	390378
20°	299054	306982	298529
25°	189874	214099	193576
30°	110462	124704	112399
35°	58361	62095	58542
40°	30785	32202	30785
45°	17234	17862	17443
50°	8059	10208	8059
55°	2925	5591	3183
60°	3355	3355	3355
65°	3619	3969	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	4262	3409	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	16.5
10°-20°	210.9	36.6
20°-30°	170.4	29.6
30°-40°	67.3	11.7
40°-50°	20.7	3.6
50°-60°	5.3	0.9
60°-70°	3.2	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°	476.0	82.7
0°-40°	543.4	94.4
0°-60°	569.4	98.9
0°-90°	575.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1026	1027	1028	1026	1023	95
15°	766	768	773	770	764	210
25°	349	366	393	372	356	162
35°	97	100	103	100	97	65
45°	25	25	26	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°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1048.0	1048.7	1049.6	1048.4	1045.3
5°	1025.5	1027.4	1028.0	1025.8	1023.3
7.5°	988.5	986.3	988.2	984.5	981.4
10°	928.0	925.2	924.3	918.7	918.7
12.5°	853.3	852.3	852.9	850.2	845.8
15°	765.6	767.7	772.7	769.6	764.3
17.5°	672.7	675.7	680.1	679.1	672.0
20°	569.6	578.5	584.7	578.8	568.6
22.5°	452.2	471.4	487.1	474.8	458.1
25°	348.8	365.5	393.3	372.3	355.6
27.5°	264.6	276.6	301.9	281.2	269.8
30°	193.9	201.3	218.9	205.3	197.3
32.5°	138.6	143.9	151.3	143.2	139.2
35°	96.9	99.7	103.1	100.0	97.2
37.5°	68.2	69.1	71.6	69.1	67.9
40°	47.8	48.2	50.0	48.5	47.8
42.5°	34.6	34.6	35.5	34.9	34.6
45°	24.7	25.0	25.6	25.3	25.0
47.5°	17.6	18.2	18.2	18.5	17.3
50°	10.5	13.0	13.3	13.0	10.5
52.5°	5.6	7.7	9.6	7.7	5.6
55°	3.4	4.6	6.5	4.6	3.7
57.5°	3.4	3.4	4.3	3.7	3.4
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.1	3.4	3.4	3.4	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
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°	1.5	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)