

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: P315590

Luminaire Tested: **LDA2B05WFL9030D010 PINW1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315590  
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: LDA2B05WFL9030D010 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: 554.5 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

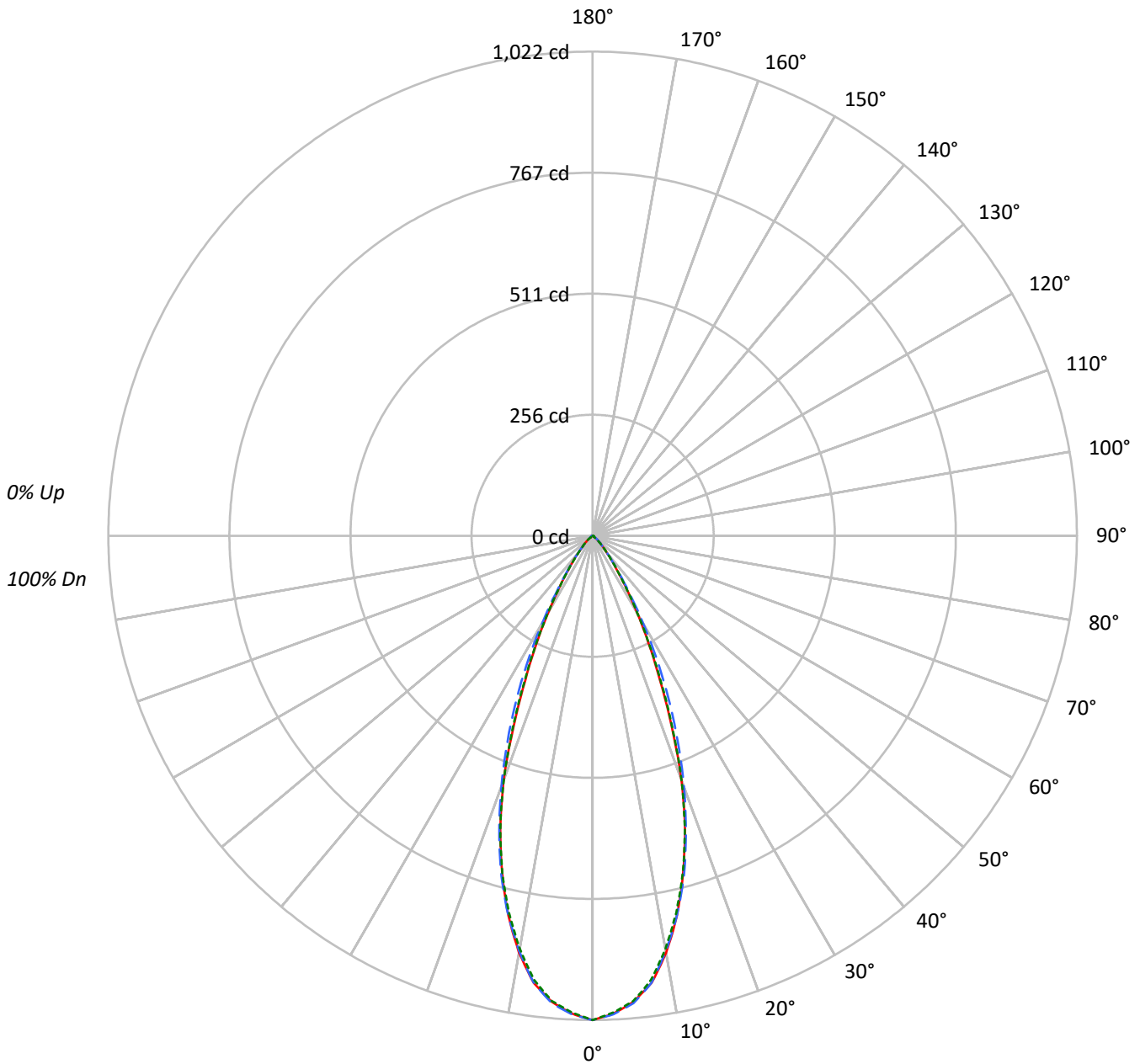
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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°	504364	504364	504364
5°	489204	490393	488164
10°	447769	446016	443311
15°	376639	380163	376026
20°	288029	295694	287556
25°	182906	206205	186499
30°	106360	120090	108240
35°	56253	59807	56434
40°	29690	31043	29690
45°	16606	17234	16815
50°	7752	9824	7752
55°	2838	5333	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°	91.3	16.5
10°-20°	203.2	36.6
20°-30°	164.1	29.6
30°-40°	64.9	11.7
40°-50°	19.9	3.6
50°-60°	5.1	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°	458.5	82.7
0°-40°	523.4	94.4
0°-60°	548.4	98.9
0°-90°	554.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	988	990	990	988	986	91
15°	737	740	744	741	736	203
25°	336	352	379	359	343	156
35°	93	96	99	96	94	63
45°	24	24	25	24	24	19
55°	3	4	6	4	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°	1022.3	1022.3	1022.3	1022.3	1022.3
2.5°	1009.5	1010.1	1011.0	1009.8	1006.8
5°	987.8	989.6	990.2	988.1	985.7
7.5°	952.1	950.0	951.8	948.3	945.3
10°	893.8	891.2	890.3	884.9	884.9
12.5°	821.9	821.0	821.6	818.9	814.7
15°	737.4	739.5	744.3	741.3	736.2
17.5°	647.9	650.9	655.1	654.2	647.3
20°	548.6	557.2	563.2	557.5	547.7
22.5°	435.6	454.1	469.2	457.3	441.3
25°	336.0	352.1	378.8	358.6	342.6
27.5°	254.8	266.4	290.8	270.9	259.9
30°	186.7	193.9	210.8	197.7	190.0
32.5°	133.5	138.6	145.7	138.0	134.1
35°	93.4	96.0	99.3	96.3	93.7
37.5°	65.7	66.6	69.0	66.6	65.4
40°	46.1	46.4	48.2	46.7	46.1
42.5°	33.3	33.3	34.2	33.6	33.3
45°	23.8	24.1	24.7	24.4	24.1
47.5°	16.9	17.5	17.5	17.8	16.7
50°	10.1	12.5	12.8	12.5	10.1
52.5°	5.4	7.4	9.2	7.4	5.4
55°	3.3	4.5	6.2	4.5	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)