

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: P283877

Luminaire Tested: **LDA2B05D2WD010 EU2B05WFL55D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283877  
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: LDA2B05D2WD010 EU2B05WFL55D2W 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 514.3 lumens  
Efficiency: N/A  
Efficacy: 73.5 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

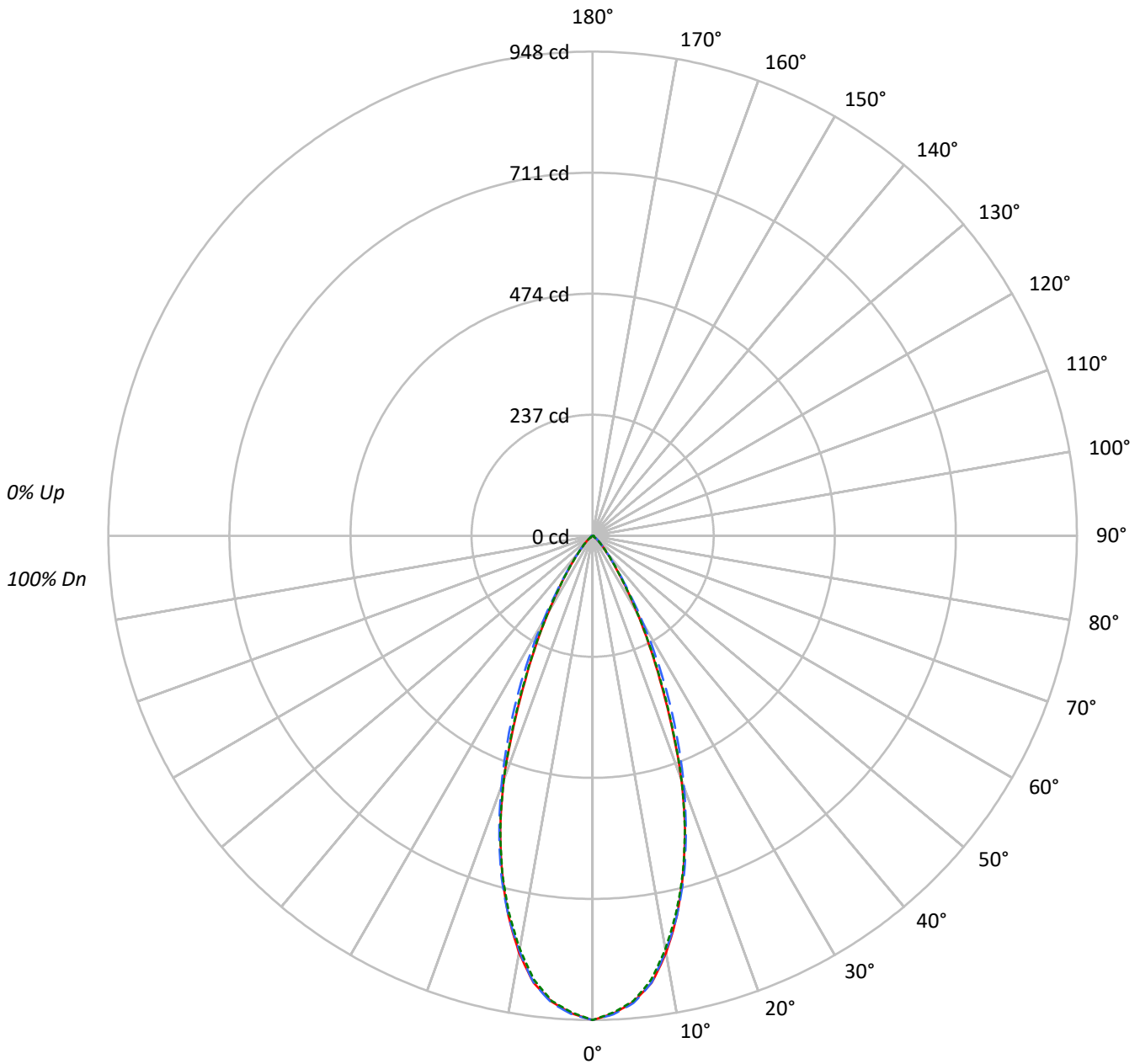
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	467806	467806	467806
5°	453745	454834	452804
10°	415356	413653	411198
15°	349364	352582	348802
20°	267133	274273	266713
25°	169678	191290	172945
30°	98669	111373	100379
35°	52158	55470	52338
40°	27500	28789	27500
45°	15420	15978	15559
50°	7215	9134	7215
55°	2580	4989	2838
60°	2960	2960	2960
65°	3269	3502	3269
70°	4039	3606	4039
75°	3622	3622	3622
80°	3978	3125	3978
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	16.5
10°-20°	188.5	36.6
20°-30°	152.2	29.6
30°-40°	60.2	11.7
40°-50°	18.5	3.6
50°-60°	4.8	0.9
60°-70°	2.9	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°	425.3	82.7
0°-40°	485.4	94.4
0°-60°	508.7	98.9
0°-90°	514.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	916	918	918	916	914	85
15°	684	686	690	688	683	188
25°	312	326	351	333	318	145
35°	87	89	92	89	87	58
45°	22	22	23	23	22	18
55°	3	4	6	4	3	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°	948.2	948.2	948.2	948.2	948.2
2.5°	936.3	936.9	937.7	936.6	933.9
5°	916.2	917.9	918.4	916.5	914.3
7.5°	883.1	881.2	882.8	879.5	876.8
10°	829.1	826.6	825.7	820.8	820.8
12.5°	762.3	761.5	762.0	759.5	755.7
15°	684.0	685.9	690.3	687.6	682.9
17.5°	601.0	603.7	607.6	606.8	600.4
20°	508.8	516.8	522.4	517.1	508.0
22.5°	404.0	421.1	435.2	424.2	409.3
25°	311.7	326.5	351.4	332.6	317.7
27.5°	236.4	247.1	269.7	251.3	241.0
30°	173.2	179.8	195.5	183.4	176.2
32.5°	123.8	128.5	135.1	128.0	124.4
35°	86.6	89.1	92.1	89.4	86.9
37.5°	61.0	61.8	64.0	61.8	60.7
40°	42.7	43.0	44.7	43.3	42.7
42.5°	30.9	30.9	31.7	31.2	30.9
45°	22.1	22.3	22.9	22.6	22.3
47.5°	15.7	16.3	16.3	16.5	15.4
50°	9.4	11.6	11.9	11.6	9.4
52.5°	5.0	6.9	8.5	6.9	5.0
55°	3.0	4.1	5.8	4.1	3.3
57.5°	3.0	3.0	3.9	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°	2.8	3.0	3.0	3.0	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.5	2.8	2.8
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°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.6	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)