

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: P283878

Luminaire Tested: **LDA2B05D2WD010 EU2B05WFL55D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283878  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 494.9 lumens  
Efficiency: N/A  
Efficacy: 70.7 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

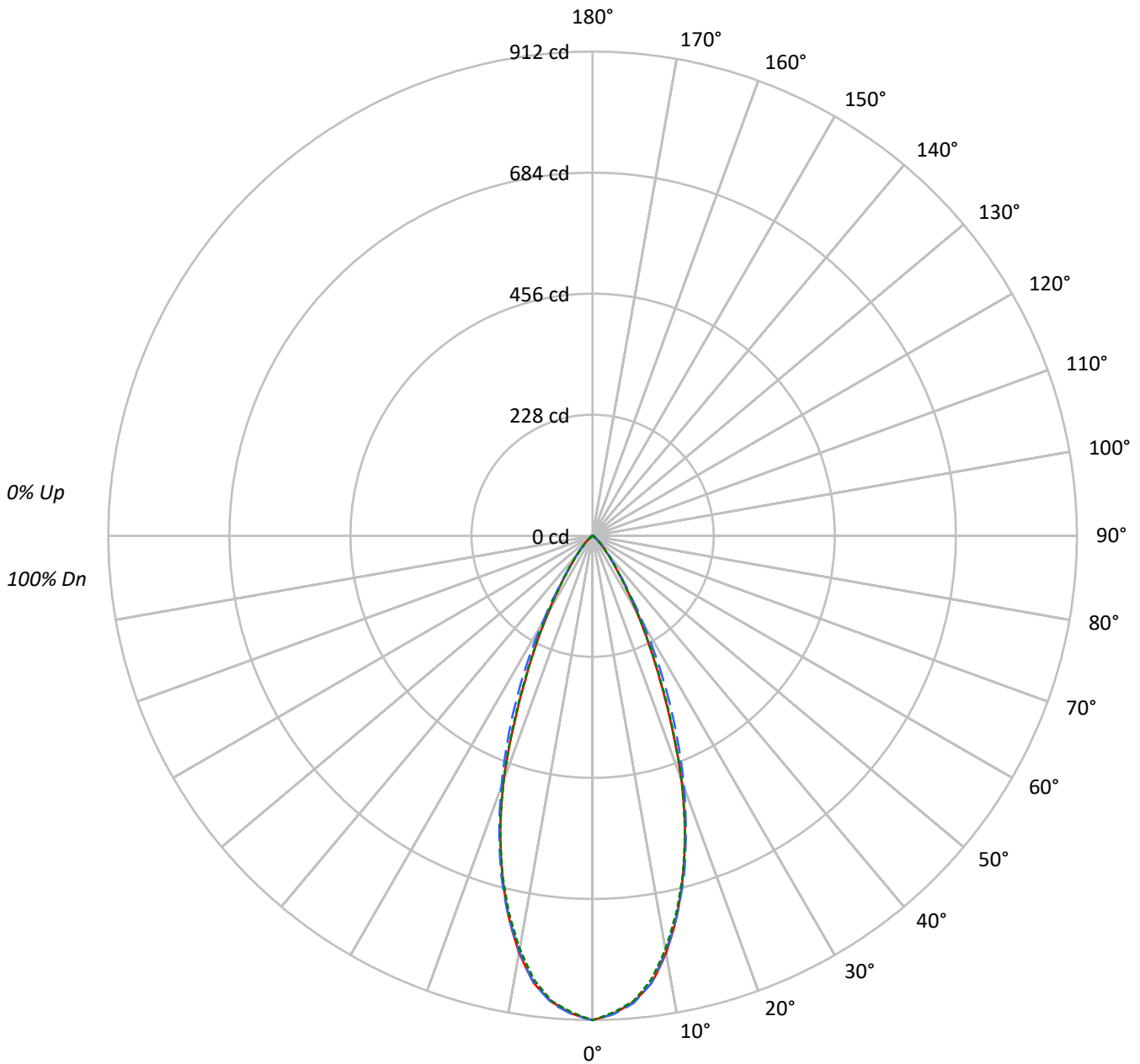
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	450143	450143	450143
5°	436609	437649	435718
10°	399626	398073	395668
15°	336186	339302	335624
20°	257052	263877	256632
25°	163255	184050	166412
30°	94967	107215	96619
35°	50170	53362	50351
40°	26470	27694	26470
45°	14792	15350	15001
50°	6908	8750	6908
55°	2494	4817	2752
60°	2861	2861	2861
65°	3152	3385	3152
70°	3895	3462	3895
75°	3622	3622	3622
80°	3694	3125	3694
85°	2830	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	16.5
10°-20°	181.3	36.6
20°-30°	146.5	29.6
30°-40°	57.9	11.7
40°-50°	17.8	3.6
50°-60°	4.6	0.9
60°-70°	2.8	0.6
70°-80°	2.0	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°	409.2	82.7
0°-40°	467.1	94.4
0°-60°	489.5	98.9
0°-90°	494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	882	883	884	882	880	82
15°	658	660	664	662	657	181
25°	300	314	338	320	306	140
35°	83	86	89	86	84	56
45°	21	22	22	22	22	17
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	912.4	912.4	912.4	912.4	912.4
2.5°	901.0	901.5	902.3	901.2	898.6
5°	881.6	883.2	883.7	881.9	879.8
7.5°	849.8	847.9	849.5	846.3	843.7
10°	797.7	795.4	794.6	789.8	789.8
12.5°	733.5	732.7	733.3	730.9	727.2
15°	658.2	660.0	664.3	661.6	657.1
17.5°	578.3	580.9	584.6	583.8	577.7
20°	489.6	497.3	502.6	497.6	488.8
22.5°	388.8	405.2	418.8	408.2	393.8
25°	299.9	314.2	338.1	320.1	305.7
27.5°	227.4	237.8	259.5	241.8	231.9
30°	166.7	173.0	188.2	176.5	169.6
32.5°	119.2	123.7	130.0	123.1	119.7
35°	83.3	85.7	88.6	86.0	83.6
37.5°	58.7	59.4	61.6	59.4	58.4
40°	41.1	41.4	43.0	41.7	41.1
42.5°	29.7	29.7	30.5	30.0	29.7
45°	21.2	21.5	22.0	21.8	21.5
47.5°	15.1	15.7	15.7	15.9	14.9
50°	9.0	11.1	11.4	11.1	9.0
52.5°	4.8	6.6	8.2	6.6	4.8
55°	2.9	4.0	5.6	4.0	3.2
57.5°	2.9	2.9	3.7	3.2	2.9
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.9	2.9	2.9	2.9	2.9
65°	2.7	2.9	2.9	2.9	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.4	2.7	2.7
72.5°	2.4	2.4	2.1	2.4	2.4
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.1	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
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)