

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: P282195

Luminaire Tested: **LDA2B05D2WD010 EU2B05NFL25D2W 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05D2WD010 EU2B05NFL25D2W 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 540.5 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

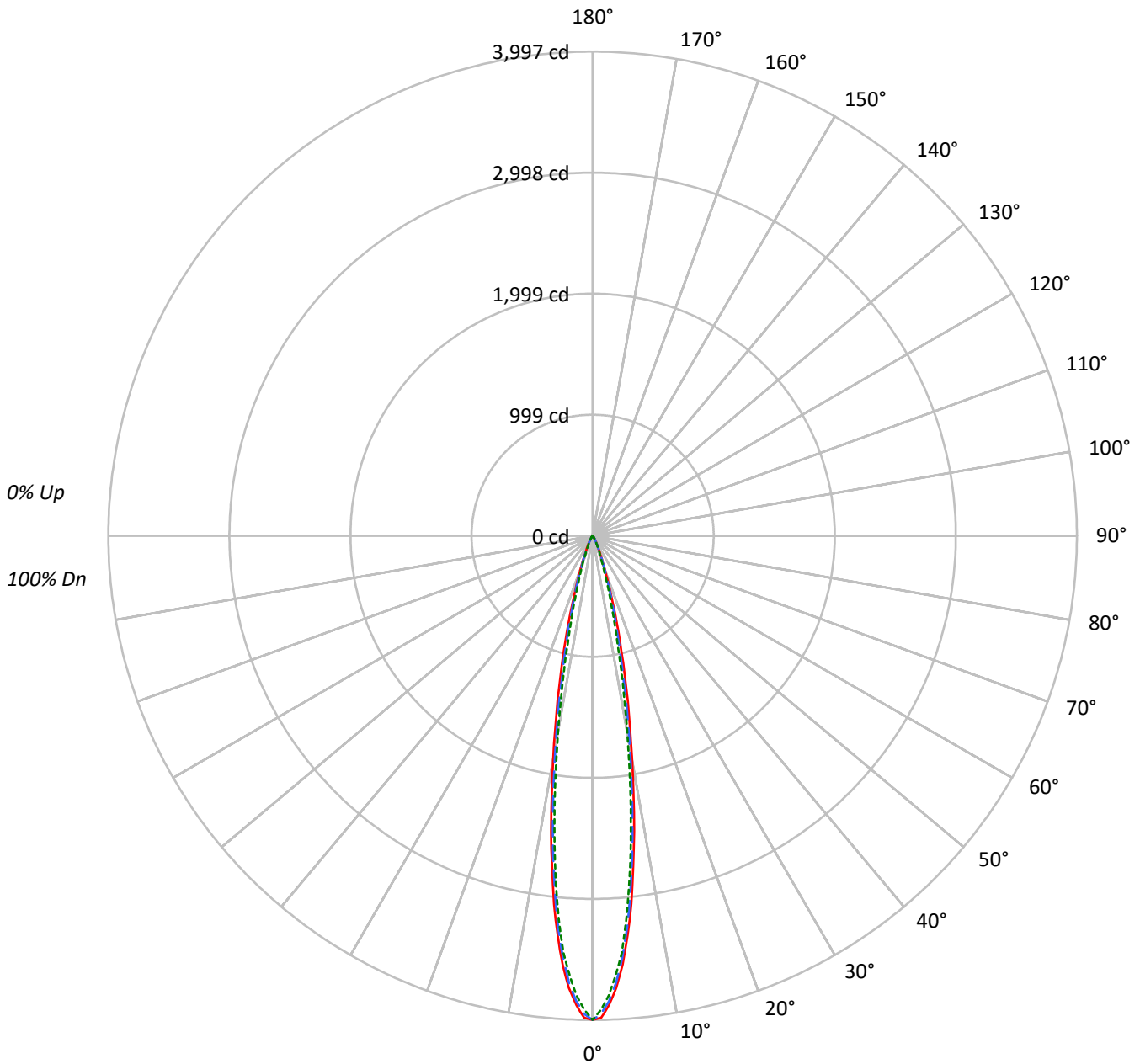
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	1971819	1971819	1971819
5°	1640801	1610690	1578202
10°	939825	881912	823098
15°	418011	371225	311107
20°	151627	142597	112985
25°	58247	54382	46815
30°	25123	23357	20737
35°	11865	11865	9817
40°	5925	6183	4959
45°	3419	3210	3000
50°	2379	2149	2149
55°	1892	1290	1548
60°	1480	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.9	48.1
10°-20°	210.4	38.9
20°-30°	50.7	9.4
30°-40°	12.9	2.4
40°-50°	3.9	0.7
50°-60°	1.6	0.3
60°-70°	0.8	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	521.0	96.4
0°-40°	534.0	98.8
0°-60°	539.5	99.8
0°-90°	540.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3997	3997	3997	3997	3997	
5°	3313	3282	3252	3224	3187	268
15°	818	799	727	655	609	233
25°	107	108	100	91	86	55
35°	20	20	20	18	16	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3996.7	3996.7	3996.7	3996.7	3996.7
1°	3978.9	3951.1	3947.7	3965.0	3914.1
2°	3877.1	3857.4	3846.0	3856.2	3798.5
3°	3737.5	3718.4	3697.7	3698.1	3633.6
4°	3547.3	3532.2	3497.4	3486.9	3449.6
5°	3313.1	3282.5	3252.3	3224.0	3186.7
6°	3054.1	3014.7	2971.5	2929.3	2891.1
7°	2749.6	2723.4	2666.3	2608.7	2576.3
8°	2463.2	2421.0	2354.4	2282.3	2254.8
9°	2155.3	2125.1	2048.6	1964.8	1937.3
10°	1876.0	1844.6	1760.4	1667.0	1643.0
11°	1614.0	1584.4	1496.9	1398.8	1373.2
12°	1392.4	1350.4	1249.9	1164.9	1139.9
13°	1171.7	1143.0	1047.7	963.6	915.2
14°	983.9	960.2	873.9	799.9	748.7
15°	818.4	799.0	726.8	654.7	609.1
16°	671.4	659.3	602.3	532.7	495.4
17°	544.7	533.6	497.2	433.1	401.6
18°	439.9	438.3	408.1	352.6	324.6
19°	361.9	361.3	333.5	287.0	263.9
20°	288.8	292.8	271.6	230.9	215.2
21°	235.5	237.7	220.7	189.9	175.7
22°	191.7	193.3	182.2	156.9	149.2
23°	157.2	158.1	148.9	130.1	123.3
24°	129.5	130.1	121.8	108.5	102.6
25°	107.0	107.6	99.9	90.6	86.0
26°	88.8	89.4	82.6	76.1	71.5
27°	73.7	74.9	68.1	64.1	59.2
28°	62.9	63.2	57.0	54.6	49.9
29°	51.5	53.3	48.1	45.9	42.5
30°	44.1	45.0	41.0	39.5	36.4
32.5°	29.3	29.9	28.1	26.8	24.4
35°	19.7	20.0	19.7	17.9	16.3
37.5°	13.6	13.6	13.9	11.7	11.1
40°	9.2	9.2	9.6	8.0	7.7
42.5°	6.8	6.8	6.5	5.5	5.5
45°	4.9	4.9	4.6	4.3	4.3
47.5°	4.0	3.7	3.4	3.4	3.4
50°	3.1	3.1	2.8	2.5	2.8
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.8	1.5	1.5	1.8
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







62.5°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)