

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: P282659

Luminaire Tested: **LDA2B05D2WD010 EU2B05NFL25D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282659  
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 2LBALPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 503.9 lumens  
Efficiency: N/A  
Efficacy: 72.0 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

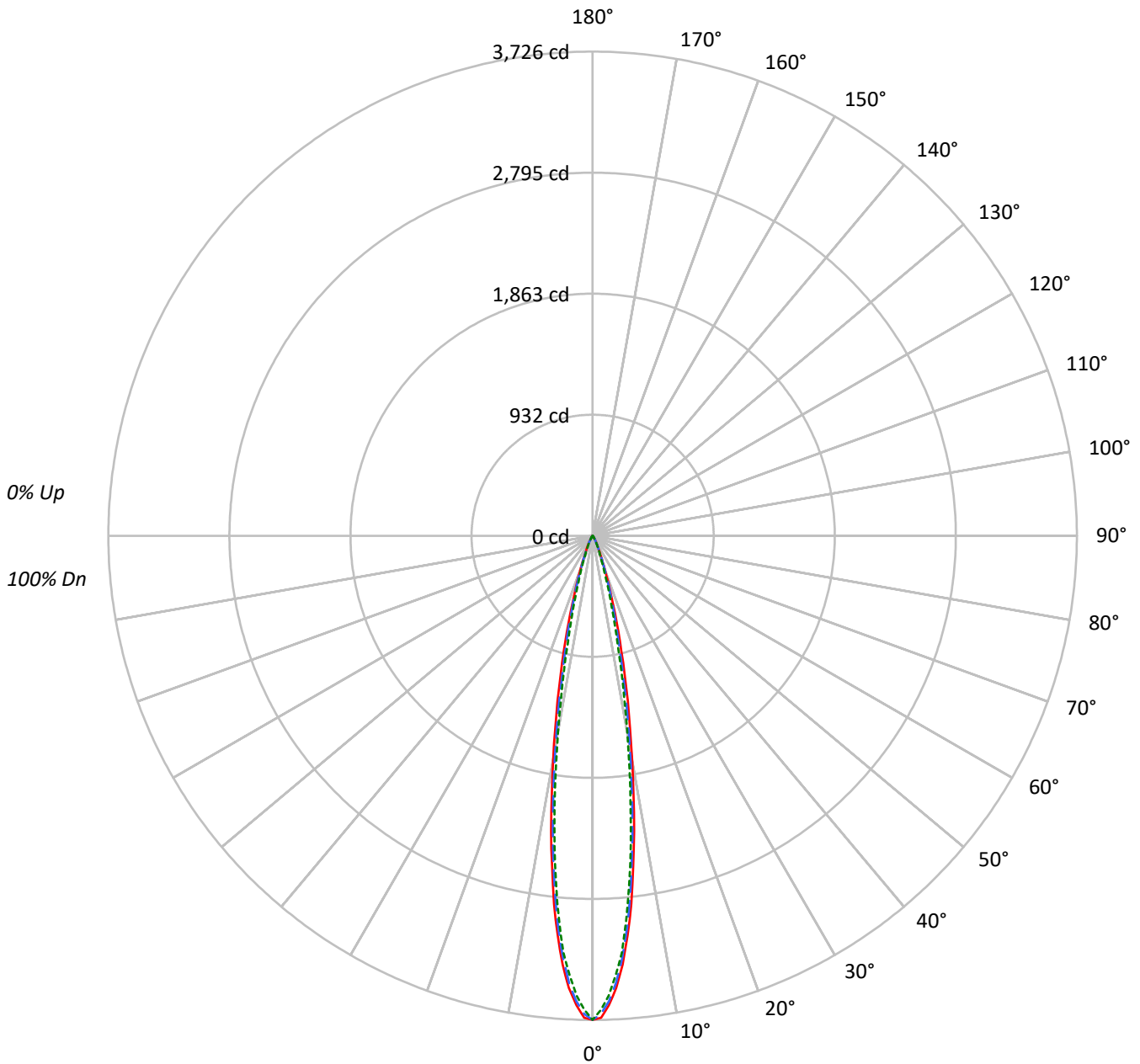
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1838069	1838069	1838069
5°	1529469	1501438	1471129
10°	876051	822096	767240
15°	389663	346044	290013
20°	141337	132884	105320
25°	54273	50680	43658
30°	23414	21762	19312
35°	11082	11082	9155
40°	5539	5732	4637
45°	3210	3000	2791
50°	2226	1996	1996
55°	1720	1204	1462
60°	1381	888	1085
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°	242.3	48.1
10°-20°	196.1	38.9
20°-30°	47.3	9.4
30°-40°	12.1	2.4
40°-50°	3.6	0.7
50°-60°	1.5	0.3
60°-70°	0.8	0.2
70°-80°	0.3	0.1
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°	485.7	96.4
0°-40°	497.7	98.8
0°-60°	502.8	99.8
0°-90°	503.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3726	3726	3726	3726	3726	
5°	3088	3060	3032	3005	2970	250
15°	763	745	678	610	568	218
25°	100	100	93	84	80	51
35°	18	19	18	17	15	13
45°	5	5	4	4	4	4
55°	2	2	1	1	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°	3725.6	3725.6	3725.6	3725.6	3725.6
1°	3708.9	3683.1	3679.9	3696.0	3648.6
2°	3614.1	3595.7	3585.1	3594.6	3540.8
3°	3483.9	3466.1	3446.9	3447.2	3387.1
4°	3306.7	3292.6	3260.1	3250.3	3215.6
5°	3088.3	3059.8	3031.7	3005.2	2970.5
6°	2846.9	2810.1	2769.9	2730.5	2694.9
7°	2563.0	2538.6	2485.4	2431.7	2401.5
8°	2296.1	2256.7	2194.7	2127.4	2101.9
9°	2009.0	1980.9	1909.6	1831.5	1805.9
10°	1748.7	1719.4	1641.0	1553.9	1531.5
11°	1504.5	1476.9	1395.3	1303.9	1280.1
12°	1297.9	1258.8	1165.1	1085.8	1062.6
13°	1092.2	1065.4	976.7	898.2	853.1
14°	917.2	895.0	814.6	745.6	697.9
15°	762.9	744.8	677.5	610.3	567.8
16°	625.8	614.6	561.5	496.5	461.7
17°	507.7	497.4	463.5	403.7	374.4
18°	410.0	408.6	380.4	328.7	302.6
19°	337.3	336.8	310.9	267.5	246.0
20°	269.2	273.0	253.1	215.2	200.6
21°	219.5	221.5	205.7	177.0	163.8
22°	178.7	180.2	169.8	146.3	139.1
23°	146.5	147.4	138.8	121.3	114.9
24°	120.7	121.3	113.5	101.1	95.7
25°	99.7	100.3	93.1	84.5	80.2
26°	82.8	83.3	77.0	71.0	66.7
27°	68.7	69.8	63.5	59.8	55.2
28°	58.6	58.9	53.2	50.9	46.5
29°	48.0	49.7	44.8	42.8	39.7
30°	41.1	42.0	38.2	36.8	33.9
32.5°	27.3	27.9	26.1	25.0	22.7
35°	18.4	18.7	18.4	16.7	15.2
37.5°	12.6	12.6	12.9	10.9	10.3
40°	8.6	8.6	8.9	7.5	7.2
42.5°	6.3	6.3	6.0	5.2	5.2
45°	4.6	4.6	4.3	4.0	4.0
47.5°	3.7	3.4	3.2	3.2	3.2
50°	2.9	2.9	2.6	2.3	2.6
52.5°	2.3	2.3	2.0	2.0	2.0
55°	2.0	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.9	1.1	1.1



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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°	1.1	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)