

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: P283538

Luminaire Tested: **LDA2B05D2WD010 EU2B05FL40D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05D2WD010 EU2B05FL40D2W 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 524.3 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

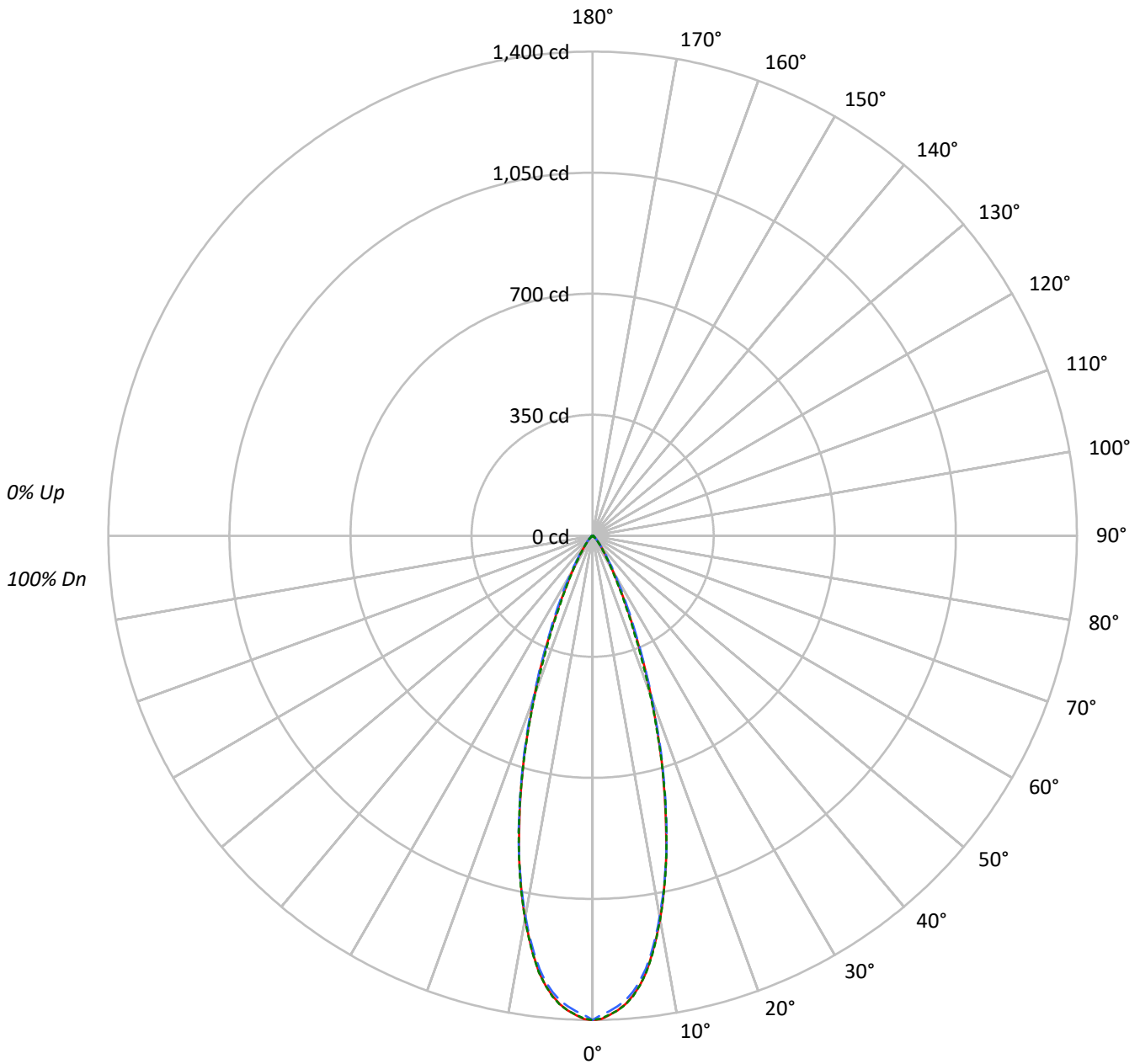
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	690805	690805	690805
5°	661104	656152	662095
10°	563244	559687	563795
15°	415099	417806	416478
20°	259152	263930	253429
25°	133859	143658	127164
30°	64204	73546	61184
35°	33126	36679	31018
40°	18548	19514	17647
45°	11303	11303	10884
50°	5833	7215	5833
55°	3011	4817	3269
60°	3454	3454	3454
65°	3736	3736	3736
70°	4616	4183	4616
75°	4575	4575	4575
80°	4262	4262	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	23.0
10°-20°	221.2	42.2
20°-30°	119.9	22.9
30°-40°	38.5	7.3
40°-50°	13.1	2.5
50°-60°	4.6	0.9
60°-70°	3.3	0.6
70°-80°	2.5	0.5
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°	461.6	88.0
0°-40°	500.1	95.4
0°-60°	517.8	98.8
0°-90°	524.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1335	1327	1325	1338	1337	121
15°	813	820	818	822	815	220
25°	246	257	264	246	234	118
35°	55	57	61	55	52	37
45°	16	16	16	16	16	13
55°	4	4	6	4	4	4
65°	3	4	3	4	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°	1400.2	1400.2	1400.2	1400.2	1400.2
1°	1397.8	1387.8	1386.3	1399.3	1396.3
2°	1386.6	1377.2	1375.8	1388.7	1386.0
3°	1374.3	1365.8	1362.8	1376.3	1374.6
4°	1357.8	1349.9	1347.2	1360.7	1359.3
5°	1334.9	1326.6	1324.9	1338.1	1336.9
6°	1306.6	1299.9	1296.6	1309.9	1307.5
7°	1271.3	1265.2	1261.6	1271.3	1272.5
8°	1225.4	1222.5	1218.4	1228.1	1228.1
9°	1176.6	1174.0	1169.6	1178.4	1178.4
10°	1124.3	1122.5	1117.2	1125.4	1125.4
11°	1066.9	1066.0	1062.2	1069.0	1069.0
12°	1006.6	1008.6	1005.1	1011.0	1008.9
13°	946.3	945.4	945.7	950.1	946.9
14°	878.0	883.3	884.2	886.9	881.9
15°	812.7	819.5	818.0	821.9	815.4
16°	746.0	753.6	753.3	754.2	748.0
17°	683.6	688.0	688.3	687.4	679.8
18°	617.1	623.3	623.3	621.8	612.7
19°	552.1	556.8	560.1	556.8	546.2
20°	493.6	496.8	502.7	494.5	482.7
21°	437.4	440.3	445.3	435.6	422.7
22°	383.6	387.4	392.1	380.9	367.4
23°	333.3	342.1	343.9	328.6	317.1
24°	287.1	297.1	300.0	284.4	272.4
25°	245.9	257.1	263.9	245.6	233.6
26°	210.3	221.2	229.4	211.2	199.7
27°	179.1	190.6	199.1	182.1	171.2
28°	152.4	163.5	172.4	156.5	146.2
29°	132.4	138.8	147.7	134.4	125.0
30°	112.7	119.7	129.1	115.6	107.4
32.5°	77.4	81.2	88.5	80.3	73.8
35°	55.0	57.4	60.9	55.3	51.5
37.5°	39.1	40.3	42.4	39.1	37.1
40°	28.8	29.4	30.3	28.5	27.4
42.5°	21.5	21.8	21.8	21.2	20.6
45°	16.2	16.5	16.2	16.2	15.6
47.5°	11.8	12.6	12.4	12.4	11.5
50°	7.6	9.4	9.4	9.1	7.6
52.5°	4.7	6.5	7.4	6.5	5.0
55°	3.5	4.4	5.6	4.4	3.8
57.5°	3.5	3.5	4.1	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.6	2.9	2.6
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.9	0.9	0.9	1.2	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°







62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.2	3.5	3.2



(END OF REPORT)