

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: P282535

Luminaire Tested: **LDA2B10D2WD010 EU2B10SP15D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B10D2WD010 EU2B10SP15D2W 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 809.4 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

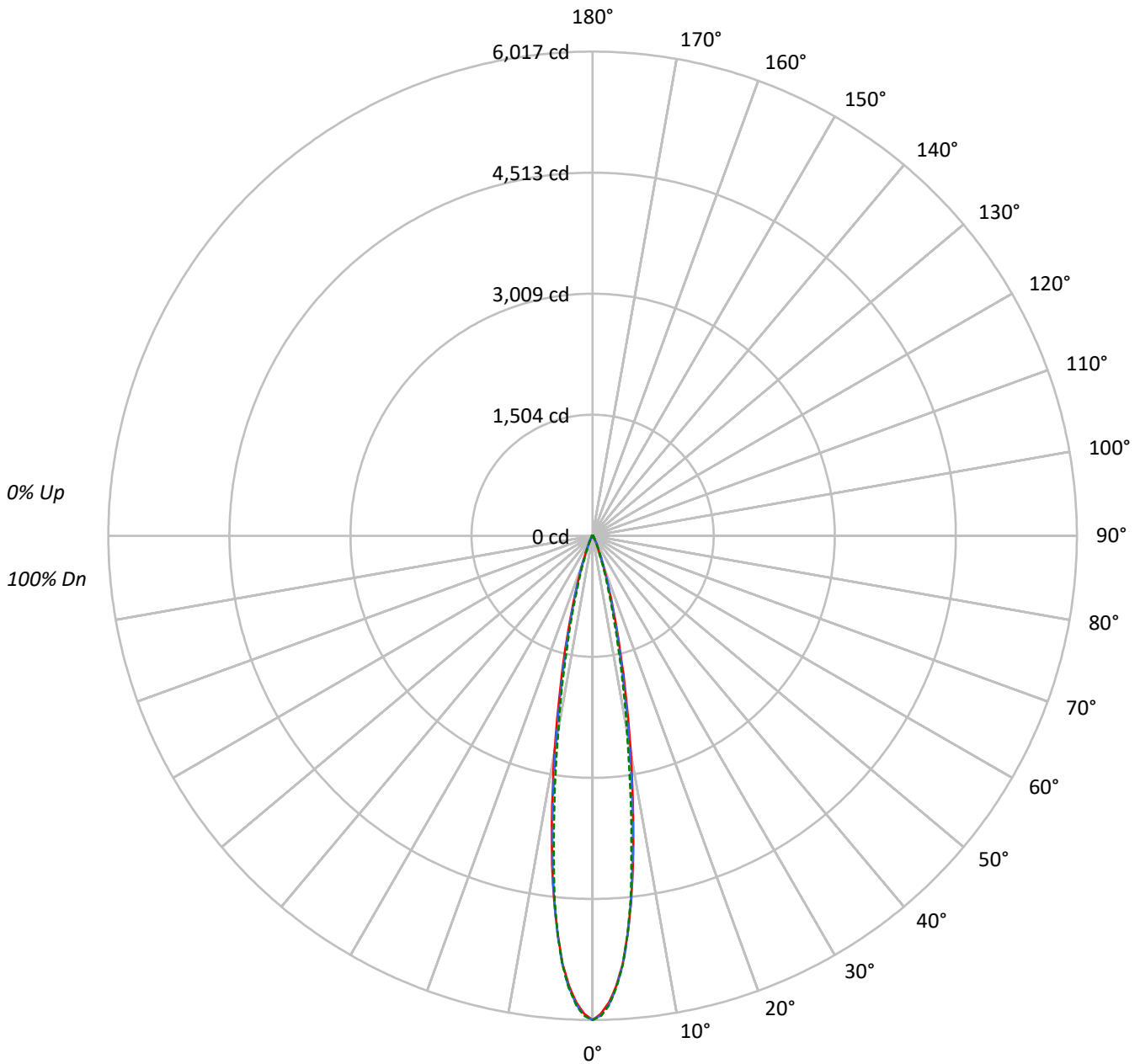
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	98	96																
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	96	94	92																
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91	96	94	92																
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	94	92	90																
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	92	89	88																
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	90	88	86																
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	88	86	84																
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	87	84	82																
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	85	82	81																
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	84	81	79																

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

	0°	45°	90°
0°	2968657	2968657	2968657
5°	2462811	2470784	2461424
10°	1363097	1313851	1223926
15°	551780	527723	468576
20°	184861	195992	158715
25°	70332	70604	66848
30°	31561	31048	29965
35°	15298	13612	10841
40°	10111	12752	8888
45°	2582	4186	3837
50°	691	1075	1382
55°	6365	5591	8774
60°	9078	7302	11841
65°	4319	11324	10740
70°	4039	3318	4039
75°	1716	4384	12390
80°	21025	28980	26139
85°	0	13020	15850



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.1	48.7
10°-20°	298.5	36.9
20°-30°	67.9	8.4
30°-40°	20.1	2.5
40°-50°	6.7	0.8
50°-60°	5.9	0.7
60°-70°	7.1	0.9
70°-80°	4.5	0.6
80°-90°	4.7	0.6
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°	760.5	94.0
0°-40°	780.5	96.4
0°-60°	793.1	98.0
0°-90°	809.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6017	6017	6017	6017	6017	
5°	4973	5012	4989	4924	4970	399
15°	1080	1095	1033	936	917	314
25°	129	139	130	128	123	68
35°	25	28	23	26	18	20
45°	4	11	6	11	6	6
55°	7	11	6	10	10	3
65°	4	8	10	9	9	4
75°	1	3	2	4	6	2
85°	0	0	2	2	3	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6017.2	6017.2	6017.2	6017.2	6017.2
1°	5939.7	5963.7	5961.4	5951.7	5968.7
2°	5803.1	5832.1	5829.4	5808.2	5838.6
3°	5602.8	5628.6	5624.5	5594.0	5627.3
4°	5335.1	5364.7	5353.1	5307.4	5349.9
5°	4972.9	5012.1	4989.0	4924.0	4970.1
6°	4571.4	4604.6	4568.2	4481.9	4527.1
7°	4121.9	4142.7	4094.7	3983.9	3953.5
8°	3631.4	3658.6	3591.7	3462.5	3429.2
9°	3162.5	3171.7	3090.5	2953.0	2911.0
10°	2720.9	2713.9	2622.6	2483.2	2443.1
11°	2302.3	2293.1	2196.6	2067.9	2080.8
12°	1921.6	1939.6	1827.4	1710.7	1713.0
13°	1608.7	1610.6	1514.1	1402.9	1396.4
14°	1317.1	1334.1	1251.5	1151.8	1133.4
15°	1080.3	1095.1	1033.2	936.3	917.4
16°	864.8	883.3	839.0	751.3	726.4
17°	696.4	719.9	690.8	617.5	588.8
18°	557.0	575.0	568.1	492.4	468.9
19°	439.8	464.7	466.6	403.3	375.2
20°	352.1	374.7	373.3	324.4	302.3
22.5°	202.1	214.1	214.6	191.5	178.6
25°	129.2	138.9	129.7	128.3	122.8
26°	112.1	120.0	109.8	109.8	104.8
27°	90.9	97.8	88.1	92.3	85.4
28°	76.6	84.0	75.7	74.8	73.8
29°	63.7	70.6	60.0	64.6	61.8
30°	55.4	60.5	54.5	61.4	52.6
32.5°	42.9	47.1	36.5	46.1	34.6
35°	25.4	28.2	22.6	26.3	18.0
37.5°	26.3	27.2	24.5	27.2	25.4
40°	15.7	16.2	19.8	19.8	13.8
42.5°	14.8	14.3	8.8	13.8	11.1
45°	3.7	10.6	6.0	10.6	5.5
47.5°	2.8	3.7	3.7	7.4	7.4
50°	0.9	3.7	1.4	2.8	1.8
52.5°	0.0	8.8	1.8	6.5	5.5
55°	7.4	10.6	6.5	9.7	10.2
57.5°	0.9	7.4	3.7	7.8	5.5
60°	9.2	12.5	7.4	13.4	12.0
62.5°	0.9	8.3	9.7	7.4	6.5
65°	3.7	7.8	9.7	9.2	9.2
67.5°	4.6	7.8	6.0	6.0	8.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.9	3.2	2.3	4.2	6.5
77.5°	0.9	3.7	3.2	7.4	5.5
80°	7.4	8.3	10.2	13.4	9.2
82.5°	6.5	6.5	10.2	7.4	5.5
85°	0.0	0.0	2.3	2.3	2.8
87.5°	0.0	1.8	4.6	3.7	6.5
90°	0.0	0.0	0.0	0.0	0.0



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







70°	2.8	0.9	2.3	2.3	2.8
72.5°	0.9	4.2	3.7	2.3	4.6



(END OF REPORT)