

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: P281523

Luminaire Tested: **LDA2B10D2WD010 EU2B10SP15D2W 2LBASQC1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281523  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B10D2WD010 EU2B10SP15D2W 2LBASQC1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 809.5 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

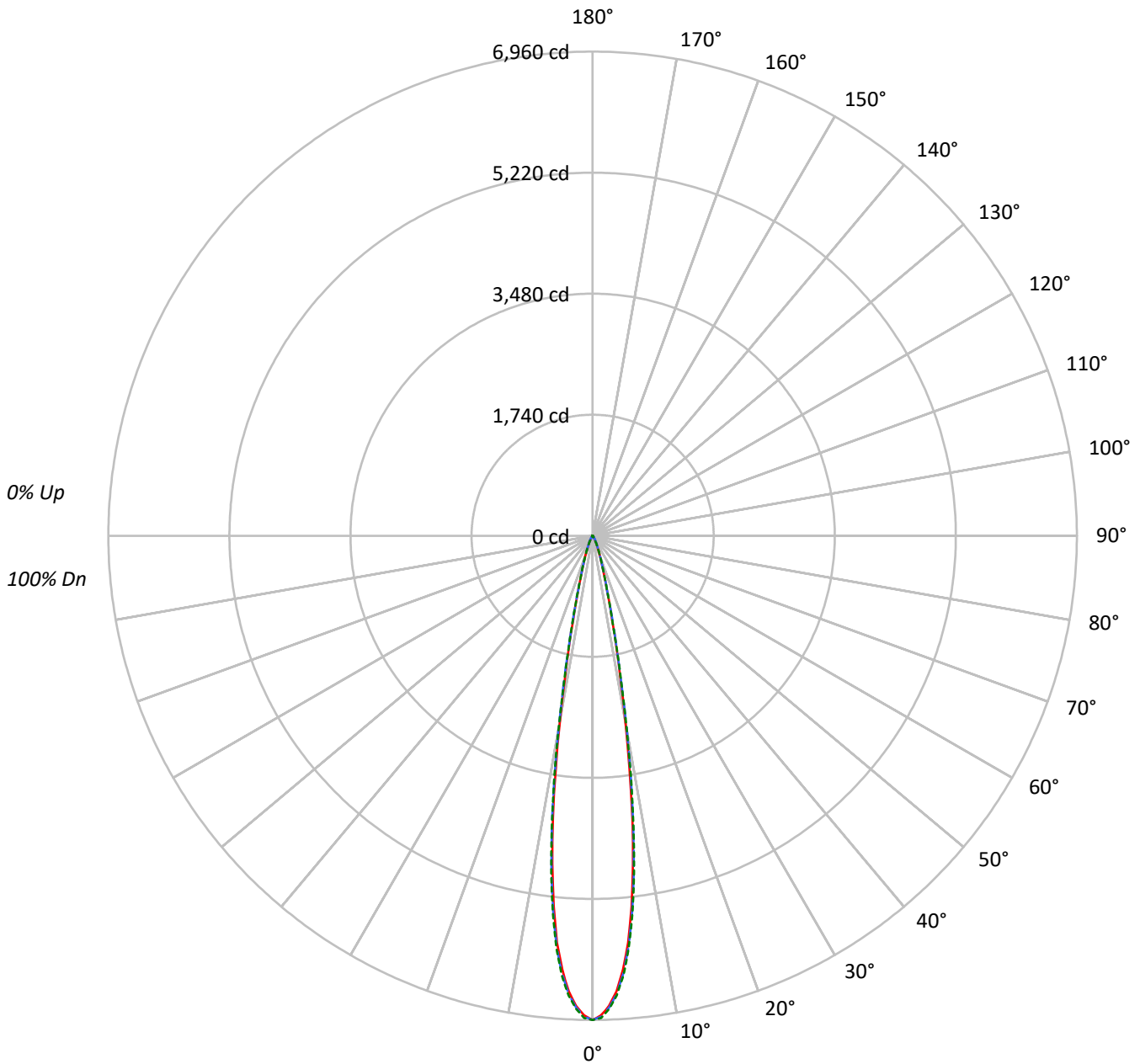
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96					98	
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94					96	
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92					94	
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90					92	
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	89	88					90	
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87					89	
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85					87	
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85	84	83					86	
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82					84	
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81					83	

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

	0°	45°	90°
0°	3434045	3434045	3434045
5°	2906502	2936910	2949687
10°	1359139	1410639	1413394
15°	398091	403862	403658
20°	159870	160080	160290
25°	71257	78497	72999
30°	30307	41644	27630
35°	13913	19333	12949
40°	4508	7535	4057
45°	0	2721	0
50°	0	0	0
55°	1376	688	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2273	0	0
85°	4529	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.0	56.8
10°-20°	260.7	32.2
20°-30°	68.1	8.4
30°-40°	17.6	2.2
40°-50°	1.7	0.2
50°-60°	0.6	0.1
60°-70°	0.1	0.0
70°-80°	0.6	0.1
80°-90°	0.1	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°	788.8	97.4
0°-40°	806.4	99.6
0°-60°	808.7	99.9
0°-90°	809.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6960	6960	6960	6960	6960	
5°	5869	5921	5930	5893	5956	454
15°	779	790	791	782	790	256
25°	131	142	144	138	134	65
35°	23	25	32	22	22	16
45°	0	2	4	0	0	1
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	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°	6960.5	6960.5	6960.5	6960.5	6960.5
1°	6895.2	6922.6	6914.4	6904.6	6932.0
2°	6762.3	6788.9	6786.6	6773.7	6805.7
3°	6557.5	6594.7	6594.7	6575.5	6615.4
4°	6252.3	6308.9	6314.4	6287.4	6337.1
5°	5868.8	5921.2	5930.2	5892.7	5956.0
6°	5349.4	5420.9	5441.2	5397.8	5462.7
7°	4752.5	4827.6	4858.4	4810.0	4882.7
8°	4108.8	4162.7	4199.8	4144.3	4218.2
9°	3388.4	3466.2	3500.2	3446.3	3518.2
10°	2713.0	2784.5	2815.8	2802.9	2821.3
11°	2107.2	2170.5	2191.6	2174.0	2182.6
12°	1649.8	1675.2	1688.9	1677.2	1683.1
13°	1252.7	1286.7	1293.0	1287.9	1290.6
14°	978.3	994.8	1001.8	999.4	1000.6
15°	779.4	789.9	790.7	781.7	790.3
16°	627.7	635.9	639.5	630.1	641.4
17°	514.4	521.0	524.9	515.6	520.2
18°	423.3	428.4	433.9	425.7	432.7
19°	355.3	358.4	358.8	356.5	358.4
20°	304.5	302.9	304.9	300.6	305.3
22.5°	200.5	204.4	209.1	204.0	206.0
25°	130.9	141.9	144.2	137.6	134.1
26°	107.9	121.9	128.2	117.7	106.3
27°	89.5	99.7	107.9	93.8	84.8
28°	78.6	87.2	95.4	82.1	71.5
29°	65.7	74.3	88.3	73.1	66.4
30°	53.2	59.4	73.1	55.5	48.5
32.5°	30.1	35.2	47.3	32.8	27.0
35°	23.1	24.6	32.1	21.9	21.5
37.5°	19.9	18.0	25.0	18.0	14.5
40°	7.0	10.6	11.7	7.8	6.3
42.5°	3.1	3.1	5.1	1.6	1.6
45°	0.0	1.6	3.9	0.4	0.0
47.5°	0.0	0.0	0.8	0.0	0.0
50°	0.0	0.8	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	1.6	2.0	0.8	0.4	0.0
57.5°	2.3	2.0	0.8	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.8	0.4	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.4	0.0	0.0	0.0
77.5°	3.9	0.8	1.2	0.8	1.6
80°	0.8	0.0	0.0	0.0	0.0
82.5°	1.6	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.6	1.2	0.0	0.0	1.6



(END OF REPORT)