

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: P281216

Luminaire Tested: **LDA2B10D2WD010 EU2B10SP15D2W 2LBALD1WHH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B10D2WD010 EU2B10SP15D2W 2LBALD1WHH  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, WHH  
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): 0.33 / 0.31 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

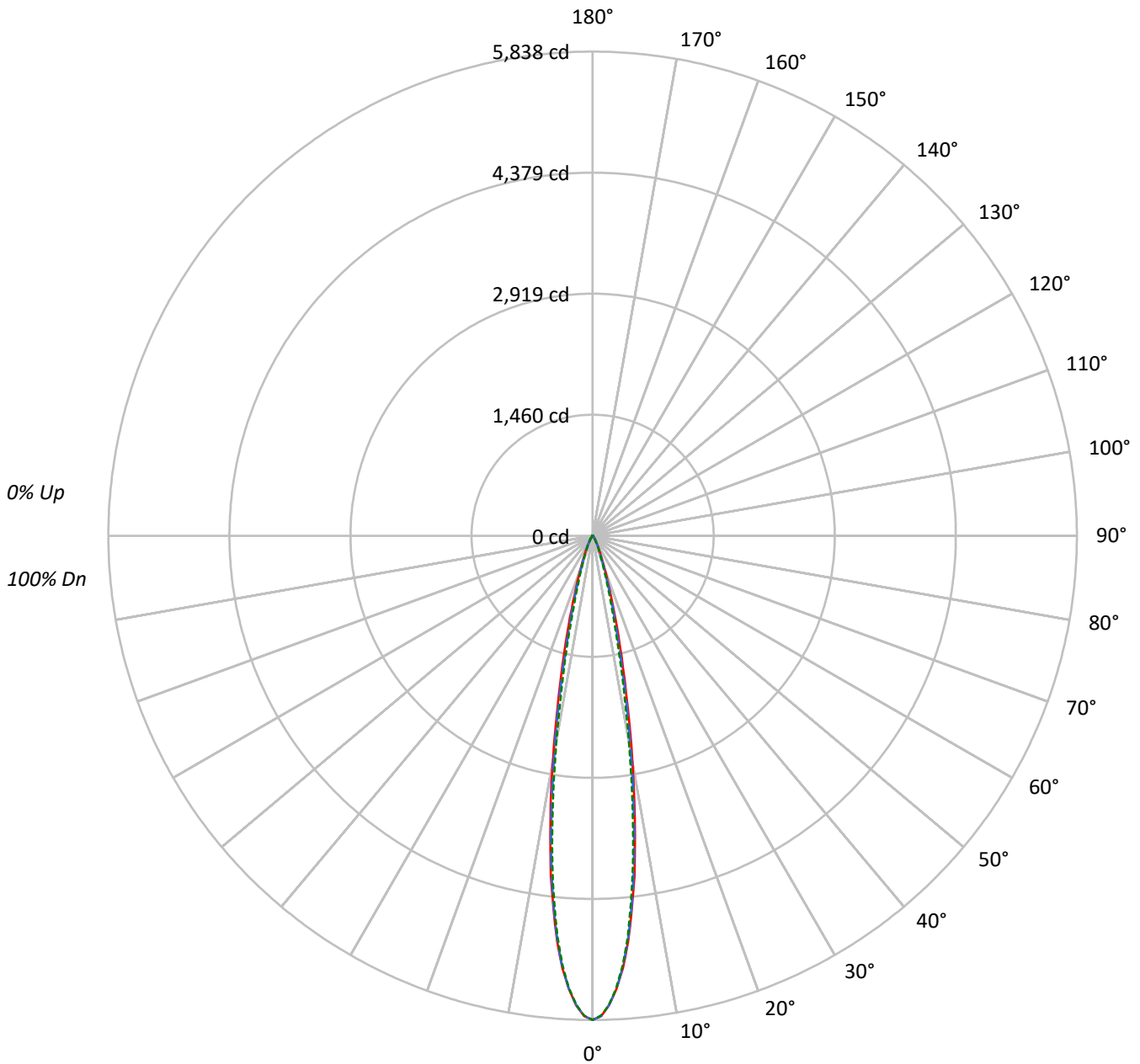
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
1	115	113	111	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97																			
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95																			
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92																			
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90																			
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	93	90	89	88																			
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86																			
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84																			
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82																			
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80																			
10	92	86	83	80	91	86	82	80	85	82	80	85	82	80	84	81	80	79																			

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

	0°	45°	90°
0°	2880049	2880049	2880049
5°	2433343	2420368	2402490
10°	1385039	1324071	1256740
15°	573539	508059	447533
20°	218200	191056	174938
25°	96353	92596	82308
30°	44606	49278	39251
35°	23429	27645	21983
40°	10305	11850	6891
45°	3977	3140	4605
50°	1919	2226	3147
55°	0	1376	0
60°	0	0	789
65°	0	0	0
70°	0	577	0
75°	0	0	0
80°	2273	0	0
85°	23209	20945	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.3	48.2
10°-20°	298.4	36.9
20°-30°	83.0	10.3
30°-40°	27.0	3.3
40°-50°	5.9	0.7
50°-60°	1.8	0.2
60°-70°	1.0	0.1
70°-80°	0.6	0.1
80°-90°	1.3	0.2
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°	771.7	95.3
0°-40°	798.7	98.7
0°-60°	806.4	99.6
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°	5838	5838	5838	5838	5838	
5°	4913	4877	4887	4851	4851	397
15°	1123	1084	995	918	876	328
25°	177	179	170	160	151	89
35°	39	42	46	35	36	26
45°	6	8	4	4	7	6
55°	0	2	2	1	0	2
65°	0	2	0	0	0	1
75°	0	0	0	1	0	0
85°	4	2	4	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5837.6	5837.6	5837.6	5837.6	5837.6
1°	5792.9	5771.2	5792.1	5779.8	5786.8
2°	5667.1	5640.0	5661.8	5644.6	5658.9
3°	5471.2	5450.3	5469.6	5447.8	5459.3
4°	5225.7	5195.4	5214.6	5185.6	5192.5
5°	4913.4	4877.4	4887.2	4850.7	4851.1
6°	4520.0	4495.0	4500.7	4443.8	4439.7
7°	4135.2	4076.1	4070.0	4004.8	3992.1
8°	3668.0	3614.3	3596.6	3520.0	3493.0
9°	3220.0	3153.2	3117.1	3028.2	2996.7
10°	2764.7	2697.1	2643.0	2542.6	2508.6
11°	2343.4	2282.3	2215.1	2107.7	2074.5
12°	1952.4	1904.5	1830.7	1727.0	1692.2
13°	1633.2	1577.8	1498.7	1402.4	1372.5
14°	1356.5	1297.1	1218.0	1135.6	1077.4
15°	1122.9	1084.0	994.7	918.0	876.2
16°	917.6	884.4	807.4	741.0	711.5
17°	752.4	725.8	660.2	608.2	583.6
18°	620.9	587.7	536.1	502.0	482.8
19°	503.7	477.9	440.2	413.9	394.7
20°	415.6	394.3	363.9	340.6	333.2
22.5°	268.4	264.7	245.1	232.4	226.2
25°	177.0	179.1	170.1	160.2	151.2
26°	151.2	152.5	144.3	138.5	127.0
27°	129.5	129.9	129.9	119.3	108.2
28°	105.7	110.2	106.1	101.2	90.6
29°	90.6	96.3	94.3	89.3	79.1
30°	78.3	82.4	86.5	78.7	68.9
32.5°	54.9	58.6	63.1	59.0	50.8
35°	38.9	42.2	45.9	34.8	36.5
37.5°	26.6	32.4	31.1	28.3	24.2
40°	16.0	16.8	18.4	19.7	10.7
42.5°	11.5	13.5	12.3	13.9	4.9
45°	5.7	8.2	4.5	4.5	6.6
47.5°	4.1	7.0	2.5	2.5	0.8
50°	2.5	5.3	2.9	1.2	4.1
52.5°	4.1	4.9	3.3	3.7	0.8
55°	0.0	2.5	1.6	0.8	0.0
57.5°	1.6	2.9	1.6	0.8	1.6
60°	0.0	0.0	0.0	0.4	0.8
62.5°	0.0	0.8	0.0	1.2	1.6
65°	0.0	1.6	0.0	0.0	0.0
67.5°	2.5	2.9	1.6	3.3	4.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.8	0.0
77.5°	0.0	4.1	1.2	1.2	1.6
80°	0.8	0.0	0.0	0.4	0.0
82.5°	0.0	3.3	0.4	1.6	2.5
85°	4.1	2.0	3.7	2.0	1.6
87.5°	0.0	0.4	0.8	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	0.4	0.4	0.0
72.5°	0.8	0.0	0.0	0.0	0.0



(END OF REPORT)