

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: P281005

Luminaire Tested: **LDA2B058030D010 EU2B05SP158030 2LBALD1B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281005  
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: LDA2B058030D010 EU2B05SP158030 2LBALD1B  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in  
ADJ spun Refl w/lens Self-Flanged, B  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 796.3 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

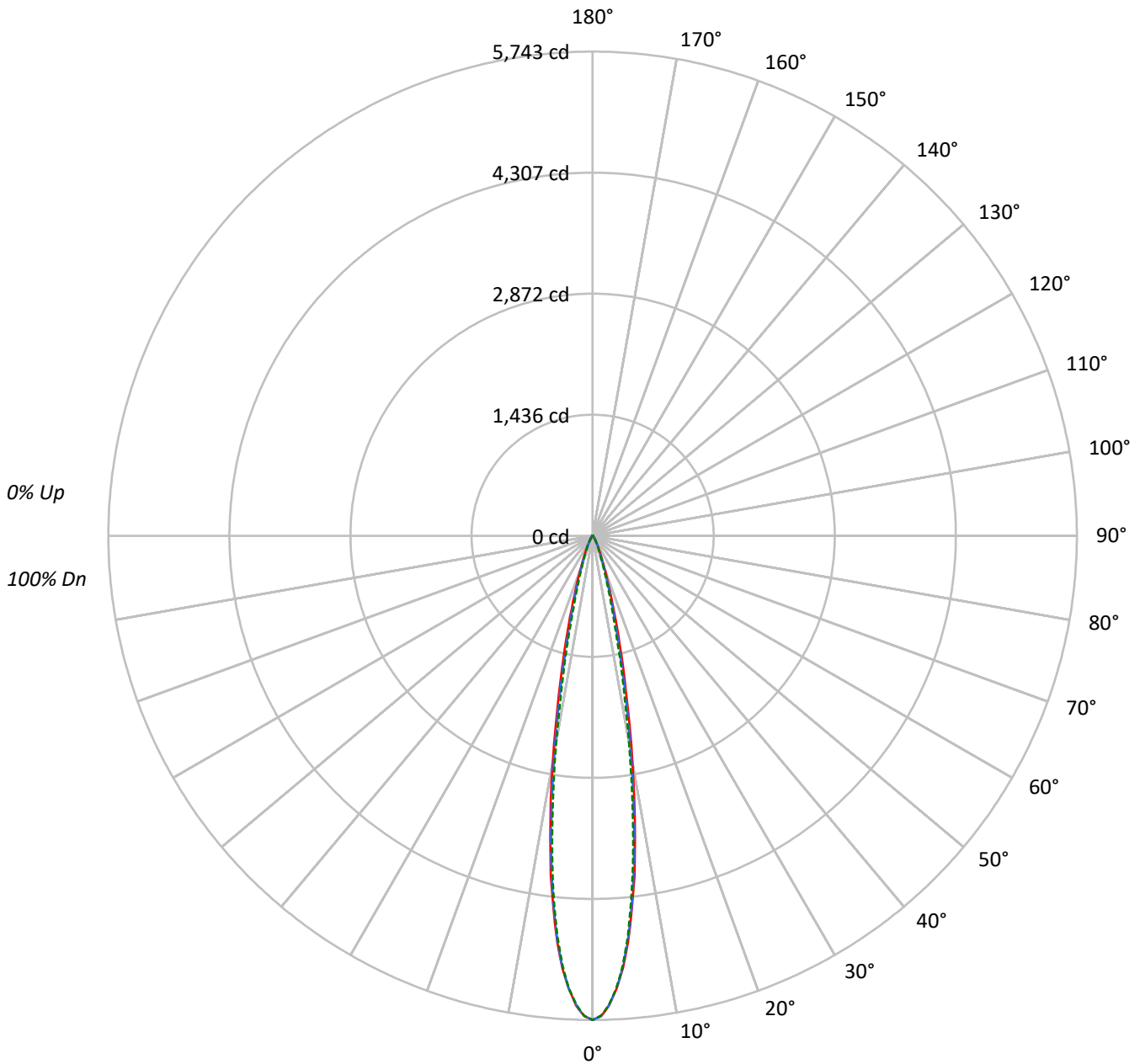
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2833574	2833574	2833574
5°	2394120	2381343	2363761
10°	1362696	1302729	1236451
15°	564294	499835	440331
20°	214683	188011	172103
25°	94828	91072	81001
30°	43866	48480	38568
35°	23067	27223	21622
40°	10111	11657	6762
45°	3907	3070	4535
50°	1842	2149	3070
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°	22643	20378	9057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.0	48.2
10°-20°	293.6	36.9
20°-30°	81.6	10.3
30°-40°	26.5	3.3
40°-50°	5.8	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°	759.2	95.3
0°-40°	785.8	98.7
0°-60°	793.4	99.6
0°-90°	796.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	796.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5743	5743	5743	5743	5743	
5°	4834	4799	4808	4772	4773	391
15°	1105	1066	979	903	862	323
25°	174	176	167	158	149	87
35°	38	42	45	34	36	25
45°	6	8	4	4	6	6
55°	0	2	2	1	0	1
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°	5743.4	5743.4	5743.4	5743.4	5743.4
1°	5699.5	5678.1	5698.7	5686.6	5693.4
2°	5575.7	5549.1	5570.5	5553.5	5567.6
3°	5383.0	5362.4	5381.4	5360.0	5371.3
4°	5141.4	5111.6	5130.6	5101.9	5108.8
5°	4834.2	4798.7	4808.4	4772.5	4772.9
6°	4447.1	4422.5	4428.1	4372.1	4368.1
7°	4068.5	4010.4	4004.4	3940.3	3927.8
8°	3608.8	3556.0	3538.6	3463.2	3436.6
9°	3168.1	3102.4	3066.9	2979.4	2948.3
10°	2720.1	2653.6	2600.4	2501.6	2468.1
11°	2305.6	2245.5	2179.4	2073.8	2041.1
12°	1920.9	1873.8	1801.2	1699.2	1664.9
13°	1606.8	1552.4	1474.6	1379.8	1350.4
14°	1334.7	1276.2	1198.4	1117.3	1060.1
15°	1104.8	1066.5	978.6	903.2	862.1
16°	902.8	870.1	794.3	729.0	700.0
17°	740.3	714.1	649.6	598.4	574.2
18°	610.9	578.2	527.4	493.9	475.0
19°	495.6	470.2	433.1	407.3	388.3
20°	408.9	387.9	358.1	335.1	327.8
22.5°	264.1	260.5	241.1	228.6	222.6
25°	174.2	176.2	167.3	157.7	148.8
26°	148.8	150.0	141.9	136.3	125.0
27°	127.4	127.8	127.8	117.3	106.4
28°	104.0	108.5	104.4	99.6	89.1
29°	89.1	94.8	92.7	87.9	77.8
30°	77.0	81.0	85.1	77.4	67.7
32.5°	54.0	57.7	62.1	58.1	50.0
35°	38.3	41.5	45.2	34.3	35.9
37.5°	26.2	31.9	30.6	27.8	23.8
40°	15.7	16.5	18.1	19.4	10.5
42.5°	11.3	13.3	12.1	13.7	4.8
45°	5.6	8.1	4.4	4.4	6.5
47.5°	4.0	6.9	2.4	2.4	0.8
50°	2.4	5.2	2.8	1.2	4.0
52.5°	4.0	4.8	3.2	3.6	0.8
55°	0.0	2.4	1.6	0.8	0.0
57.5°	1.6	2.8	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°	2.4	2.8	1.6	3.2	4.8



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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	4.0	1.2	1.2	1.6
80°	0.8	0.0	0.0	0.4	0.0
82.5°	0.0	3.2	0.4	1.6	2.4
85°	4.0	2.0	3.6	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)