

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: P205581

Luminaire Tested: **LD4B10D010 EU4B10209030 4LBSWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209030 4LBSWMH1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM  
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W  
DL3-11.1W DLE-11.39W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 913.1 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

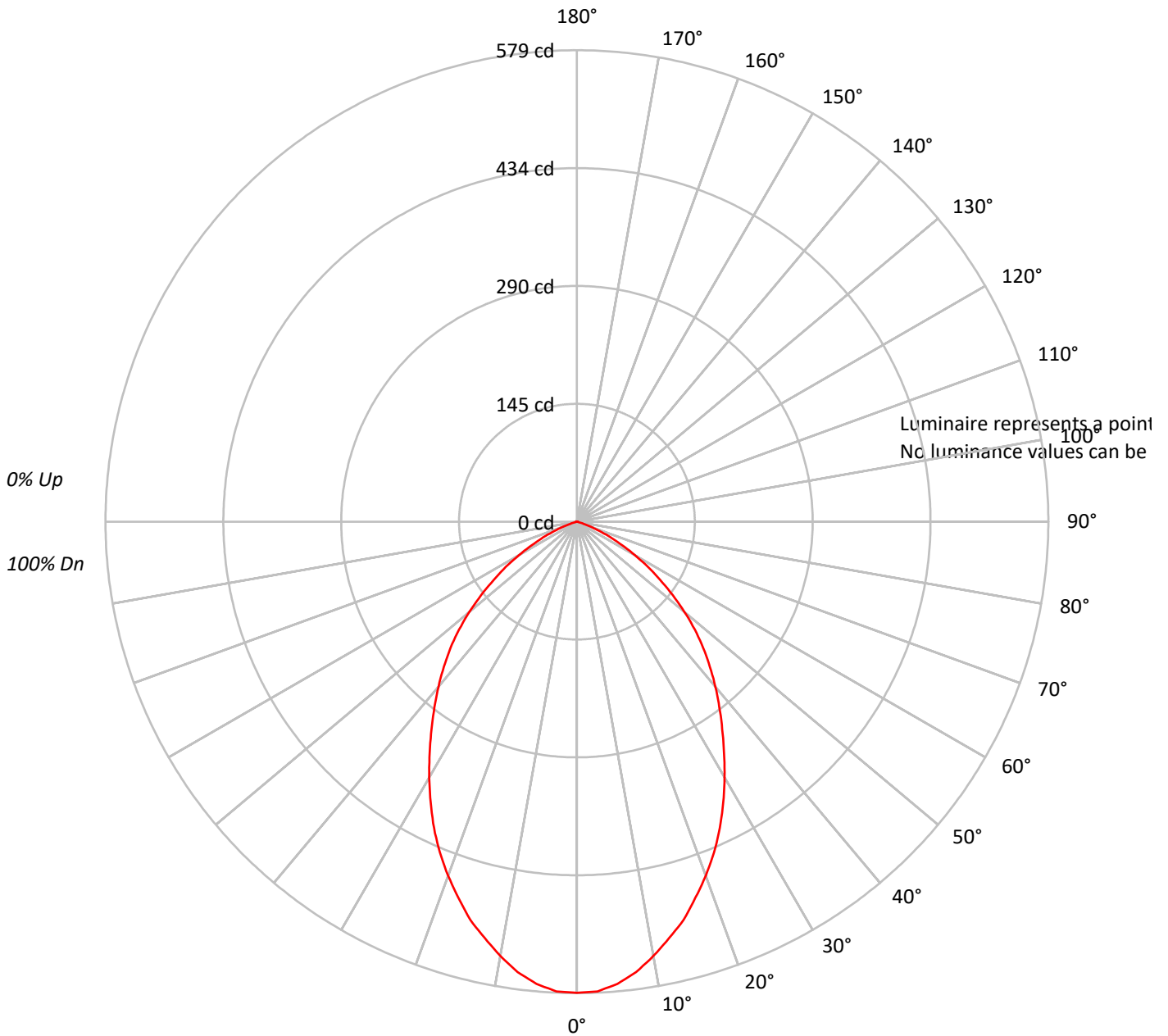
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P205581

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBSWMH1

### Luminous Intensity Polar Plot





TEST NUMBER: P205581

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBSWMH1

**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	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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90																												
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79																												
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																												
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																												
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56																												
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50																												
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																												
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41																												
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38																												
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35																												

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





TEST NUMBER: P205581

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBSWMH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	5.9
10°-20°	141.7	15.5
20°-30°	190.4	20.8
30°-40°	194.9	21.3
40°-50°	168.7	18.5
50°-60°	112.2	12.3
60°-70°	46.1	5.0
70°-80°	5.5	0.6
80°-90°	0.2	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°	385.6	42.2
0°-40°	580.5	63.6
0°-60°	861.3	94.3
0°-90°	913.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	579	
5°	570	53
15°	506	142
25°	415	190
35°	311	195
45°	220	169
55°	124	112
65°	46	46
75°	2	5
85°	0	0
90°	0	



TEST NUMBER: P205581

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBSWMH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	578.7
2.5°	577.5
5°	569.7
7.5°	557.8
10°	541.6
12.5°	523.6
15°	506.3
17.5°	484.2
20°	462.6
22.5°	439.9
25°	415.3
27.5°	389.0
30°	362.7
32.5°	336.3
35°	311.2
37.5°	287.3
40°	264.5
42.5°	241.8
45°	219.6
47.5°	196.3
50°	172.4
52.5°	148.4
55°	124.5
57.5°	103.5
60°	82.0
62.5°	62.2
65°	45.5
67.5°	29.9
70°	17.4
72.5°	8.4
75°	2.4
77.5°	1.2
80°	0.6
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)