

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: P205582

Luminaire Tested: **LD4B10D010 EU4B10209035 4LBSWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205582  
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 EU4B10209035 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: 926.7 lumens  
Efficiency: N/A  
Efficacy: 93.6 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

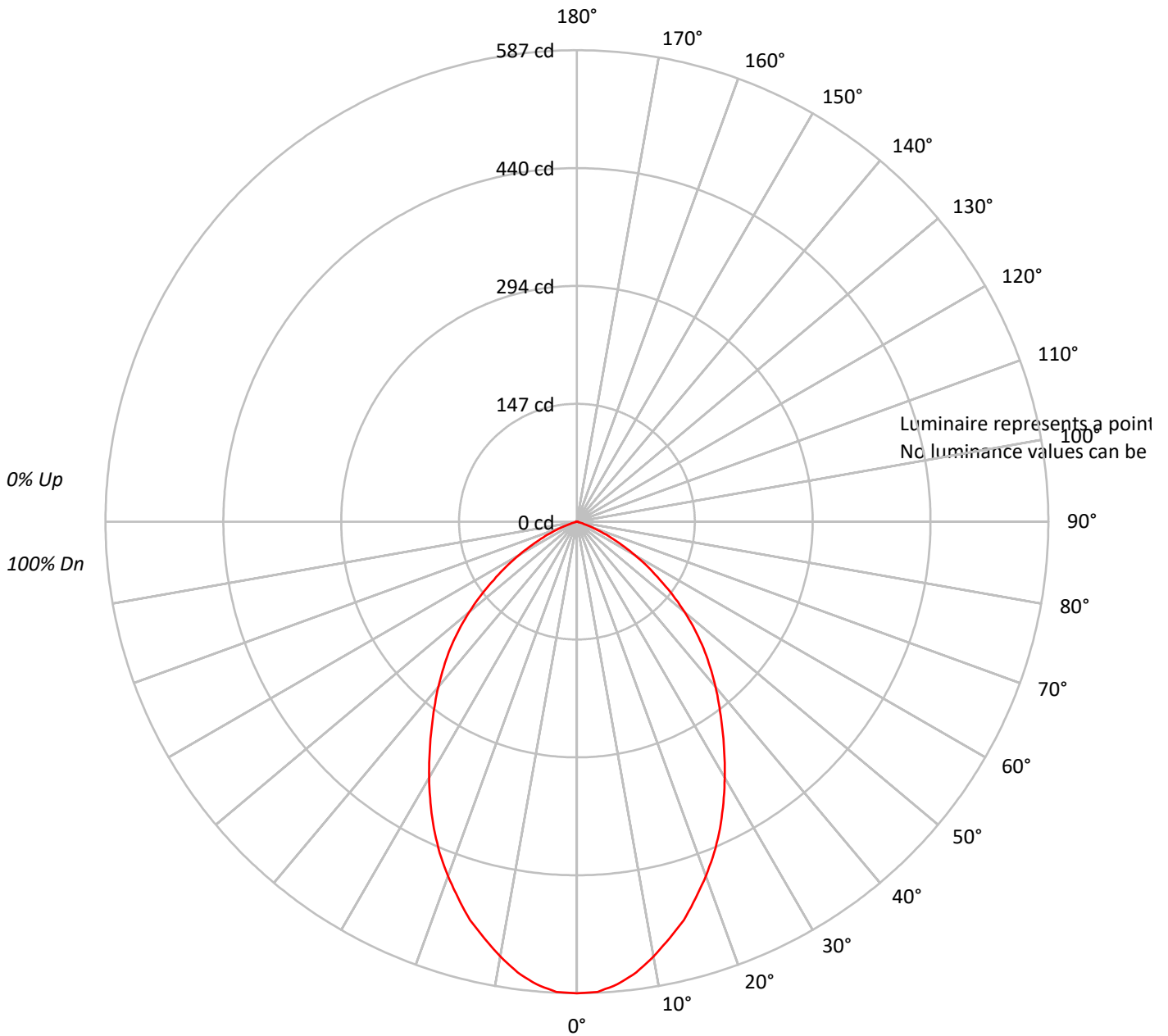
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P205582

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBSWMH1

### Luminous Intensity Polar Plot





TEST NUMBER: P205582

CATALOG NUMBER: LD4B10D010 EU4B10209035 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	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: P205582

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBSWMH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	5.9
10°-20°	143.9	15.5
20°-30°	193.2	20.8
30°-40°	197.7	21.3
40°-50°	171.2	18.5
50°-60°	113.8	12.3
60°-70°	46.8	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°	391.3	42.2
0°-40°	589.1	63.6
0°-60°	874.1	94.3
0°-90°	926.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	587	
5°	578	54
15°	514	144
25°	422	193
35°	316	198
45°	223	171
55°	126	114
65°	46	47
75°	2	6
85°	0	0
90°	0	



TEST NUMBER: P205582

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBSWMH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	587.3
2.5°	586.1
5°	578.2
7.5°	566.1
10°	549.7
12.5°	531.5
15°	513.8
17.5°	491.4
20°	469.5
22.5°	446.4
25°	421.5
27.5°	394.8
30°	368.1
32.5°	341.3
35°	315.8
37.5°	291.5
40°	268.5
42.5°	245.4
45°	222.9
47.5°	199.2
50°	174.9
52.5°	150.6
55°	126.3
57.5°	105.1
60°	83.2
62.5°	63.2
65°	46.2
67.5°	30.4
70°	17.6
72.5°	8.5
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)