

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: P206095

Luminaire Tested: **LD4B10D010 EU4B10208035 4LBSMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206095  
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 EU4B10208035 4LBSMW1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH MATTE WHITE 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: 1126.9 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

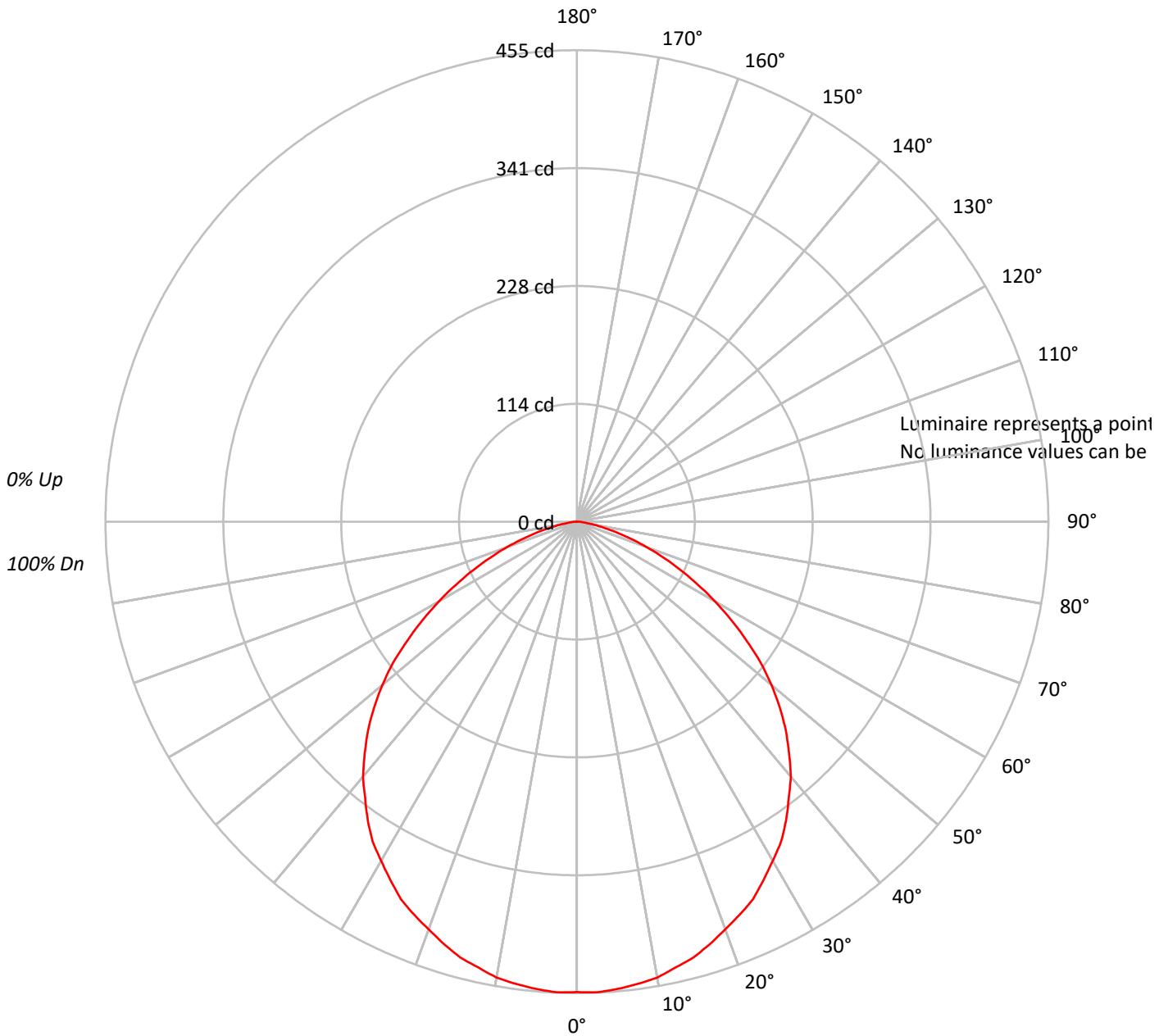
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P206095

CATALOG NUMBER: LD4B10D010 EU4B10208035 4LBSMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P206095

CATALOG NUMBER: LD4B10D010 EU4B10208035 4LBSMW1

**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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63																			
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47																			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37																			
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

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





TEST NUMBER: P206095

CATALOG NUMBER: LD4B10D010 EU4B10208035 4LBSMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	3.8
10°-20°	122.6	10.9
20°-30°	184.7	16.4
30°-40°	219.8	19.5
40°-50°	219.3	19.5
50°-60°	178.4	15.8
60°-70°	109.7	9.7
70°-80°	42.5	3.8
80°-90°	6.8	0.6
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°	350.3	31.1
0°-40°	570.1	50.6
0°-60°	967.8	85.9
0°-90°	1126.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	454	
5°	453	43
15°	435	123
25°	402	185
35°	352	220
45°	285	219
55°	200	178
65°	110	110
75°	39	43
85°	5	7
90°	0	



TEST NUMBER: P206095

CATALOG NUMBER: LD4B10D010 EU4B10208035 4LBSMW1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	454.0
2.5°	454.7
5°	452.7
7.5°	450.0
10°	446.7
12.5°	440.7
15°	435.3
17.5°	427.3
20°	418.6
22.5°	410.6
25°	402.0
27.5°	389.9
30°	377.9
32.5°	366.6
35°	351.9
37.5°	335.8
40°	321.2
42.5°	303.1
45°	285.1
47.5°	265.7
50°	245.0
52.5°	223.7
55°	199.6
57.5°	176.3
60°	153.6
62.5°	131.5
65°	110.2
67.5°	90.1
70°	71.4
72.5°	54.1
75°	38.7
77.5°	25.4
80°	15.4
82.5°	9.3
85°	5.3
87.5°	2.7
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)