

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: P208122

Luminaire Tested: **LD4B50D010TE EU4B30509030 4LBWLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208122  
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: LD4B50D010TE EU4B30509030 4LBWL1  
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4396.7 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

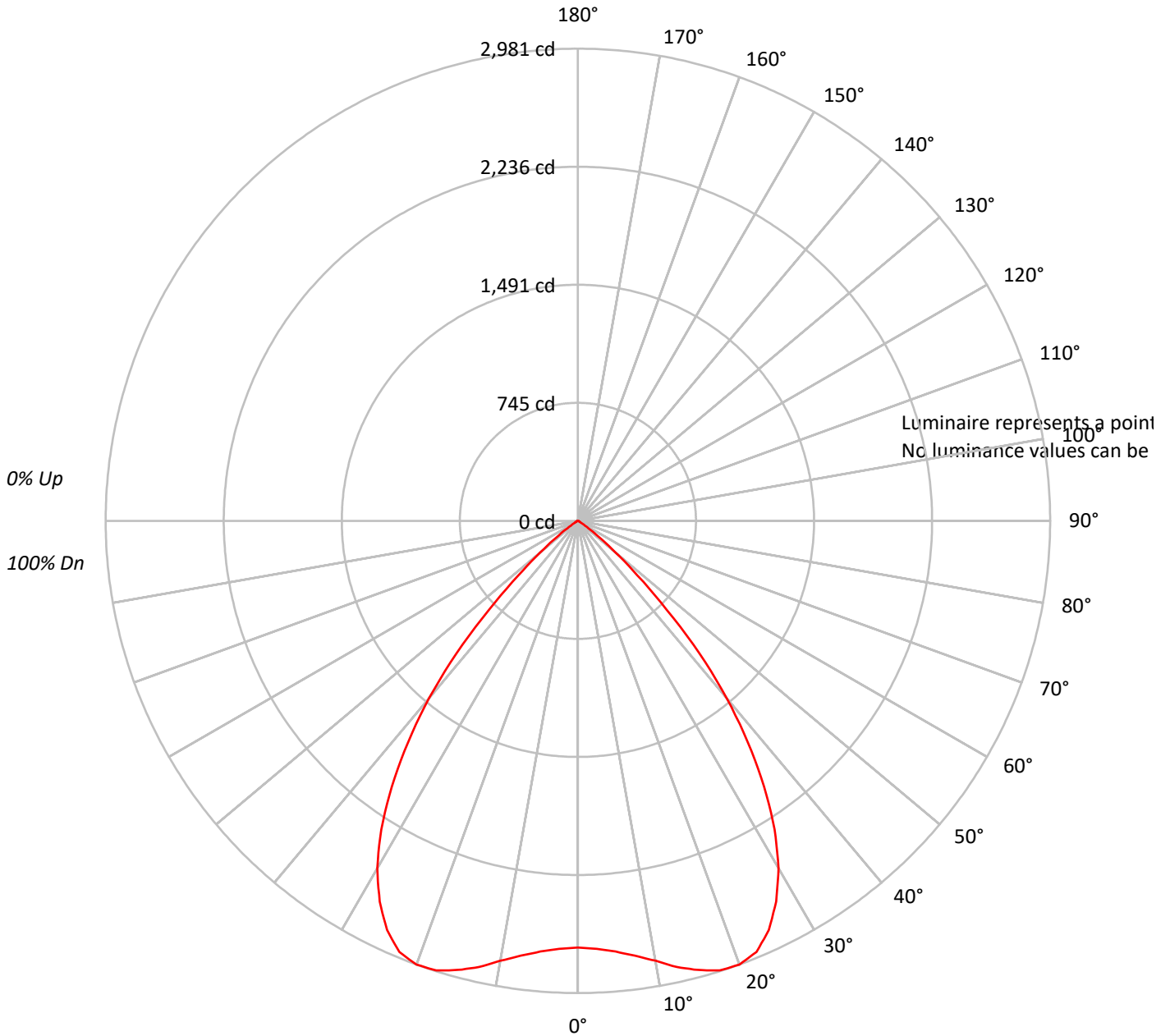
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P208122

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWLI1

### Luminous Intensity Polar Plot





TEST NUMBER: P208122

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWLI1

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92		
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84		
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77		
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70		
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54		
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49		
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45		
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42		

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





TEST NUMBER: P208122

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWLI1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.4	6.0
10°-20°	831.4	18.9
20°-30°	1297.0	29.5
30°-40°	1261.9	28.7
40°-50°	630.3	14.3
50°-60°	97.6	2.2
60°-70°	11.8	0.3
70°-80°	3.3	0.1
80°-90°	0.0	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°	2391.8	54.4
0°-40°	3653.7	83.1
0°-60°	4381.6	99.7
0°-90°	4396.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4396.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2694	
5°	2729	263
15°	2936	831
25°	2850	1297
35°	2049	1262
45°	791	630
55°	81	98
65°	10	12
75°	5	3
85°	0	0
90°	0	



TEST NUMBER: P208122

CATALOG NUMBER: LD4B50D010TE EU4B30509030 4LBWLI1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2693.9
2.5°	2704.0
5°	2729.2
7.5°	2769.5
10°	2819.8
12.5°	2885.3
15°	2935.6
17.5°	2975.9
20°	2981.0
22.5°	2945.7
25°	2850.0
27.5°	2709.0
30°	2532.8
32.5°	2311.2
35°	2049.4
37.5°	1762.4
40°	1460.3
42.5°	1138.0
45°	790.6
47.5°	508.6
50°	307.2
52.5°	166.2
55°	80.6
57.5°	35.2
60°	20.1
62.5°	15.1
65°	10.1
67.5°	10.1
70°	5.0
72.5°	5.0
75°	5.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)