

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: P207613

Luminaire Tested: **LD4B50D010TE EU4B30509727 4LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207613  
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 EU4B30509727 4LBMMW1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

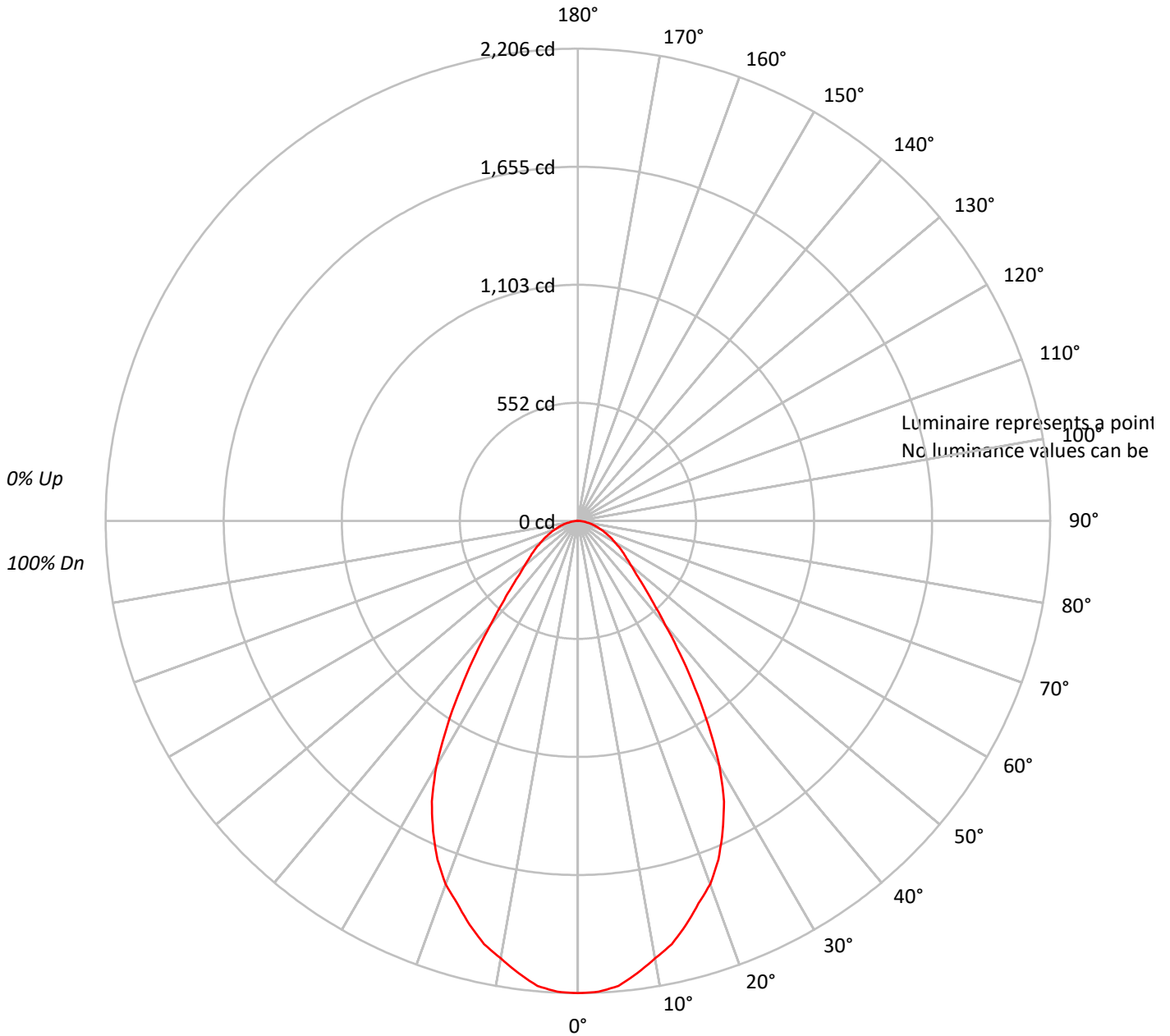
Lumens per Lamp: N/A  
Luminaire Lumens: 2906.4 lumens  
Efficiency: N/A  
Efficacy: 49.5 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

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: P207613  
CATALOG NUMBER: LD4B50D010TE EU4B30509727 4LBMMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P207613

CATALOG NUMBER: LD4B50D010TE EU4B30509727 4LBMMW1

**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	100	102	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42			
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39			

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





TEST NUMBER: P207613

CATALOG NUMBER: LD4B50D010TE EU4B30509727 4LBMMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	7.0
10°-20°	548.2	18.9
20°-30°	729.0	25.1
30°-40°	596.2	20.5
40°-50°	347.3	11.9
50°-60°	230.3	7.9
60°-70°	151.4	5.2
70°-80°	79.9	2.7
80°-90°	19.5	0.7
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°	1481.7	51.0
0°-40°	2078.0	71.5
0°-60°	2655.6	91.4
0°-90°	2906.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2206	
5°	2181	205
15°	1954	548
25°	1600	729
35°	952	596
45°	438	347
55°	257	230
65°	152	151
75°	76	80
85°	17	19
90°	0	



TEST NUMBER: P207613

CATALOG NUMBER: LD4B50D010TE EU4B30509727 4LBMMW1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2206.3
2.5°	2202.1
5°	2181.1
7.5°	2130.5
10°	2075.8
12.5°	2025.3
15°	1953.7
17.5°	1873.7
20°	1806.3
22.5°	1713.7
25°	1600.0
27.5°	1477.9
30°	1322.1
32.5°	1136.9
35°	951.6
37.5°	783.2
40°	635.8
42.5°	522.1
45°	437.9
47.5°	370.5
50°	324.2
52.5°	286.3
55°	256.8
57.5°	227.4
60°	197.9
62.5°	176.8
65°	151.6
67.5°	130.5
70°	109.5
72.5°	92.6
75°	75.8
77.5°	58.9
80°	42.1
82.5°	29.5
85°	16.8
87.5°	4.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)