

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: P206064

Luminaire Tested: **LD4B50D010TE EU4B30509050 4LBSB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206064  
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 EU4B30509050 4LBSB1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SPECULAR BLACK TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3911.5 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

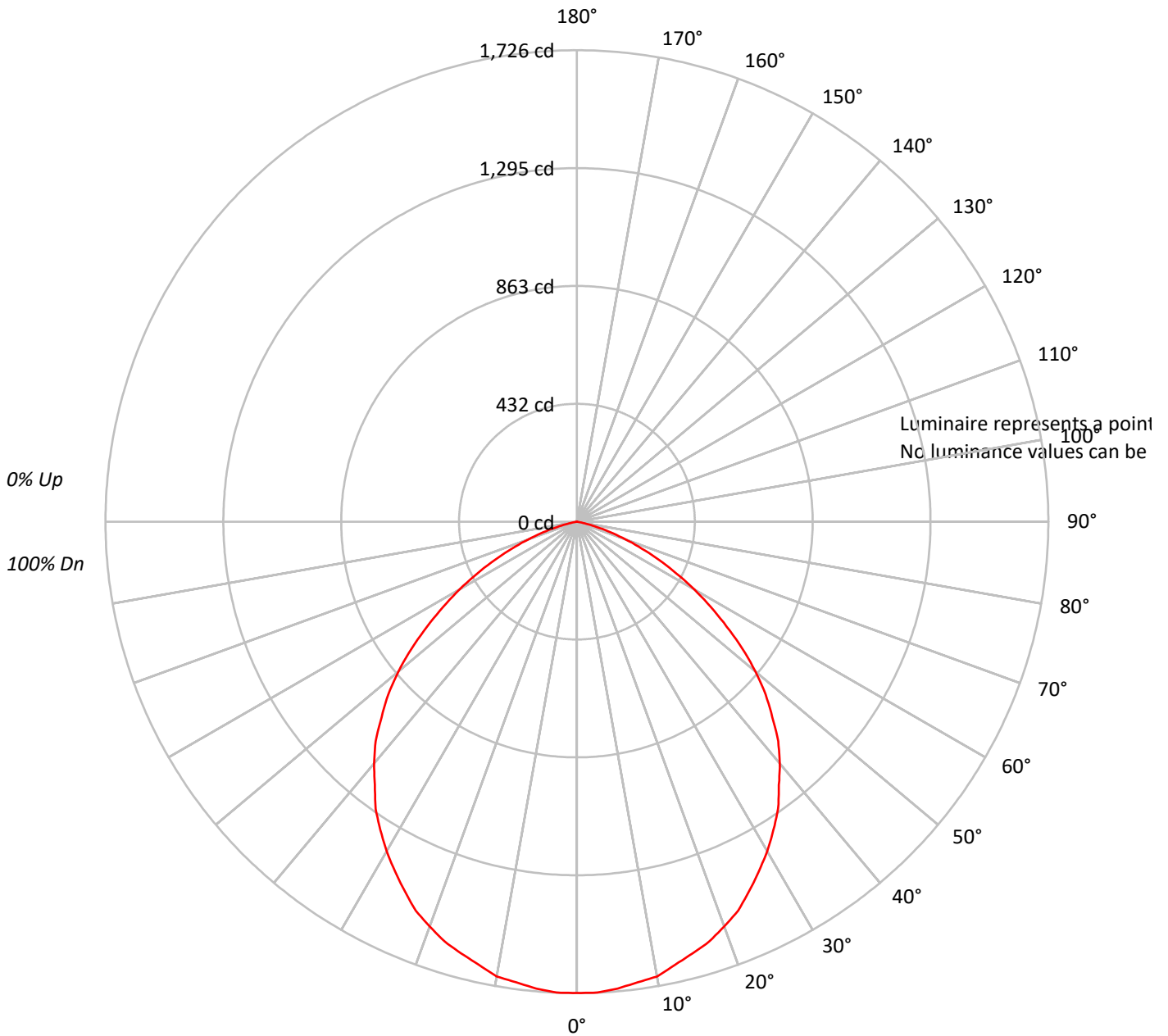
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P206064

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBSB1

### Luminous Intensity Polar Plot





TEST NUMBER: P206064

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBSB1

**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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88					88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76					76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65					65			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57					57			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32					32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29					29			

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





TEST NUMBER: P206064

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBSB1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	4.2
10°-20°	462.1	11.8
20°-30°	687.4	17.6
30°-40°	799.9	20.4
40°-50°	779.6	19.9
50°-60°	599.7	15.3
60°-70°	331.5	8.5
70°-80°	87.8	2.2
80°-90°	0.7	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°	1312.4	33.6
0°-40°	2112.3	54.0
0°-60°	3491.6	89.3
0°-90°	3911.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1726	
5°	1716	163
15°	1636	462
25°	1492	687
35°	1284	800
45°	1012	780
55°	669	600
65°	332	331
75°	74	88
85°	0	1
90°	0	



TEST NUMBER: P206064

CATALOG NUMBER: LD4B50D010TE EU4B30509050 4LBSB1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1725.5
2.5°	1725.5
5°	1715.6
7.5°	1700.7
10°	1690.8
12.5°	1661.1
15°	1636.3
17.5°	1611.5
20°	1576.8
22.5°	1542.1
25°	1492.5
27.5°	1442.9
30°	1393.3
32.5°	1338.8
35°	1284.2
37.5°	1214.8
40°	1155.3
42.5°	1090.8
45°	1011.5
47.5°	937.1
50°	852.8
52.5°	763.6
55°	669.4
57.5°	580.1
60°	495.8
62.5°	411.5
65°	332.2
67.5°	257.8
70°	188.4
72.5°	128.9
75°	74.4
77.5°	34.7
80°	5.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)