

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: P208426

Luminaire Tested: **LD4B50D010TE EU4B30509027 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208426
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 EU4B30509027 4LBSLI1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW 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: 4374.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

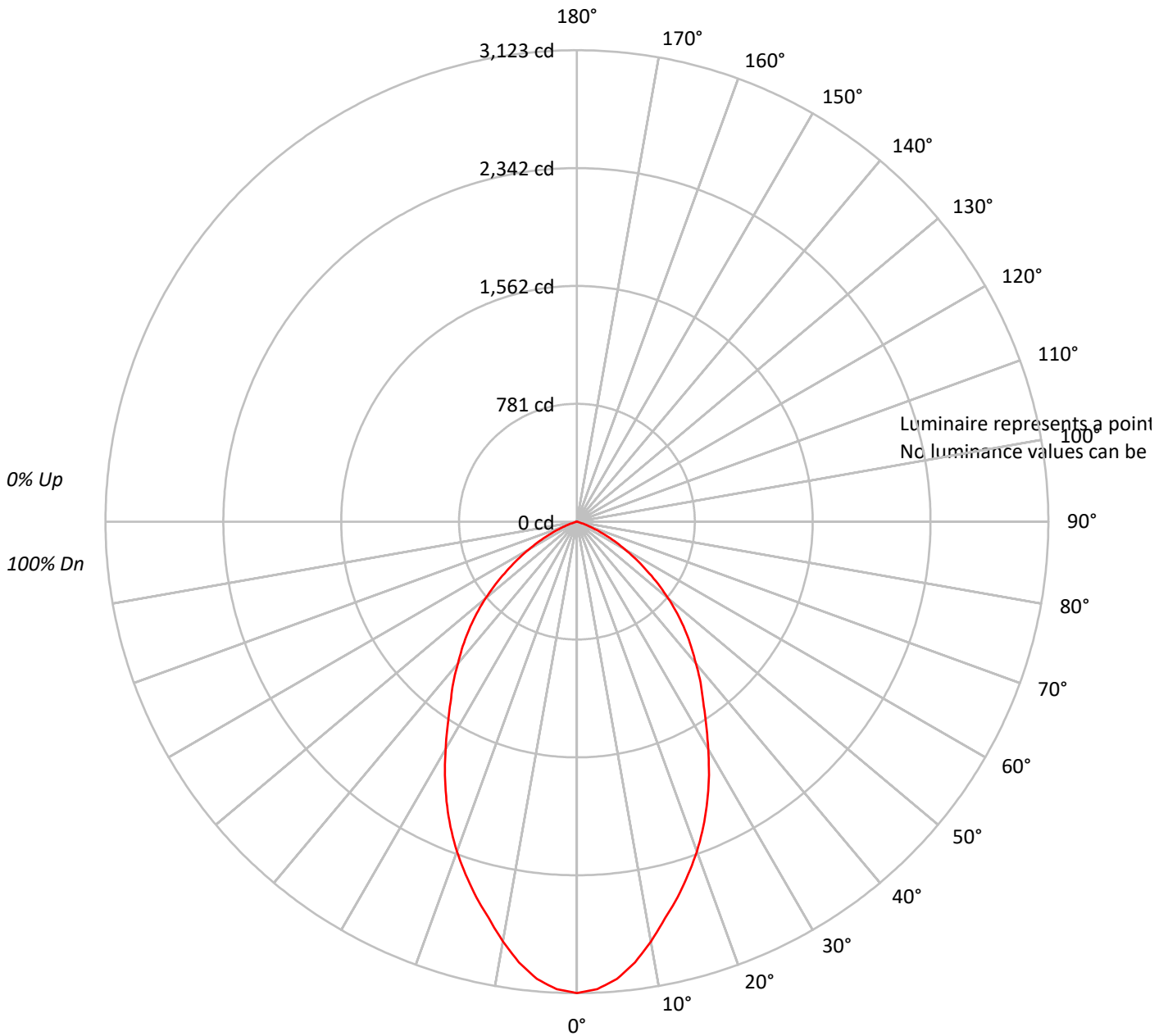
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208426

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBSLI1

Luminous Intensity Polar Plot





TEST NUMBER: P208426

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBSLI1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80				80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71				71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63				63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57				57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51				51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42				42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39				39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208426

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBSLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	6.5
10°-20°	722.2	16.5
20°-30°	935.9	21.4
30°-40°	917.0	21.0
40°-50°	777.3	17.8
50°-60°	509.5	11.6
60°-70°	204.8	4.7
70°-80°	23.4	0.5
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°	1941.3	44.4
0°-40°	2858.3	65.3
0°-60°	4145.1	94.8
0°-90°	4374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3123	
5°	3041	283
15°	2576	722
25°	2043	936
35°	1458	917
45°	1012	777
55°	566	510
65°	198	205
75°	10	23
85°	0	1
90°	0	



TEST NUMBER: P208426

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBSLI1

CANDELA DISTRIBUTION (FULL):

	0°
0°	3123.2
2.5°	3098.9
5°	3040.8
7.5°	2944.0
10°	2822.9
12.5°	2692.2
15°	2576.0
17.5°	2450.1
20°	2324.2
22.5°	2188.6
25°	2043.4
27.5°	1893.3
30°	1738.3
32.5°	1593.1
35°	1457.5
37.5°	1346.1
40°	1225.1
42.5°	1118.5
45°	1012.0
47.5°	900.6
50°	789.3
52.5°	677.9
55°	566.5
57.5°	464.8
60°	368.0
62.5°	280.8
65°	198.5
67.5°	130.7
70°	77.5
72.5°	33.9
75°	9.7
77.5°	4.8
80°	4.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)