

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: P252121

Luminaire Tested: **LD4B50D010TE EU4B30509027 4LBBA1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B50D010TE EU4B30509027 4LBBA1MB
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2134.0 lumens
Efficiency: N/A
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.94
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

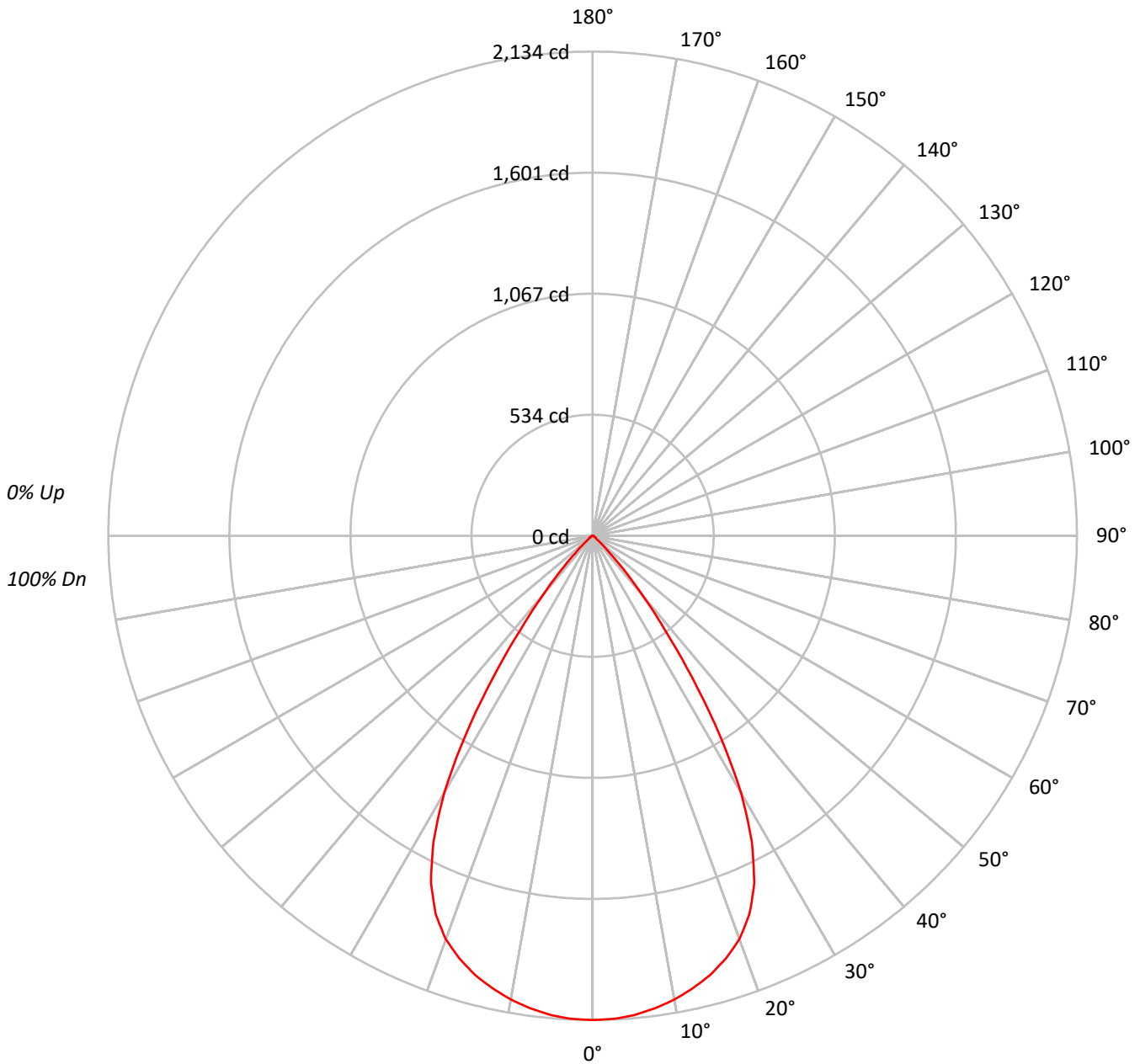
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252121

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBBA1MB

Luminous Intensity Polar Plot





TEST NUMBER: P252121

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBBA1MB

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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	207995
5°	207430
10°	205414
15°	202125
20°	196204
25°	181258
30°	147049
35°	91158
40°	42887
45°	14982
50°	4230
55°	2838
60°	2164
65°	1937
70°	1596
75°	1054
80°	1571
85°	0



TEST NUMBER: P252121

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBBA1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	9.4
10°-20°	563.1	26.4
20°-30°	756.9	35.5
30°-40°	483.5	22.7
40°-50°	102.8	4.8
50°-60°	15.5	0.7
60°-70°	7.6	0.4
70°-80°	3.3	0.2
80°-90°	0.4	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°	1520.9	71.3
0°-40°	2004.4	93.9
0°-60°	2122.7	99.5
0°-90°	2134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2134	
5°	2120	201
15°	2003	563
25°	1686	757
35°	766	484
45°	109	103
55°	17	15
65°	8	8
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P252121

CATALOG NUMBER: LD4B50D010TE EU4B30509027 4LBBA1MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2134.2
2.5°	2131.4
5°	2120.3
7.5°	2100.8
10°	2075.7
12.5°	2042.3
15°	2003.3
17.5°	1953.1
20°	1891.8
22.5°	1805.5
25°	1685.6
27.5°	1518.5
30°	1306.7
32.5°	1044.8
35°	766.2
37.5°	523.8
40°	337.1
42.5°	200.6
45°	108.7
47.5°	55.7
50°	27.9
52.5°	19.5
55°	16.7
57.5°	13.9
60°	11.1
62.5°	8.4
65°	8.4
67.5°	5.6
70°	5.6
72.5°	2.8
75°	2.8
77.5°	2.8
80°	2.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)