

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: P252046

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B50D010TE EU4B30509040 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5402.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

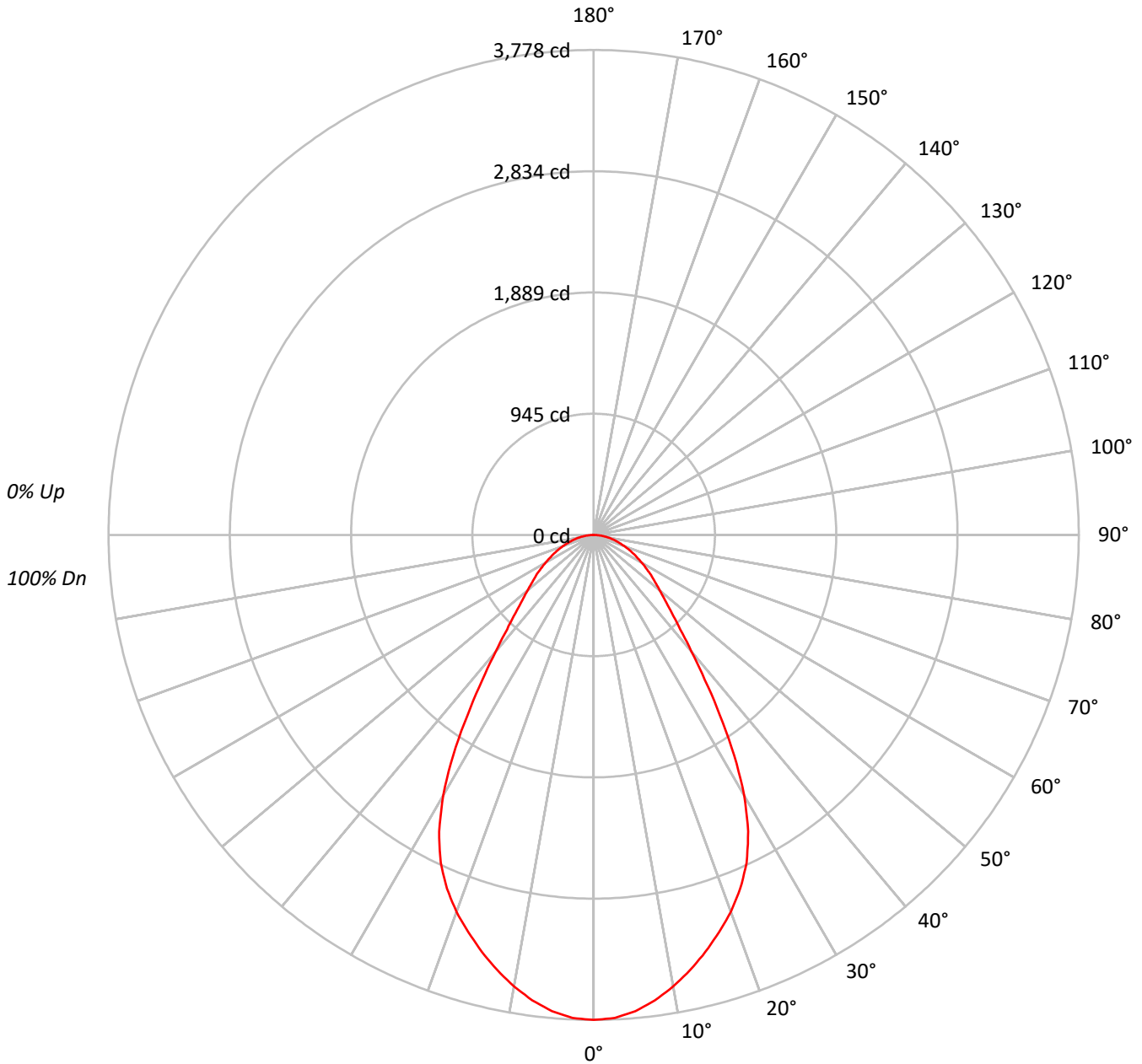
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	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	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368187
5°	364408
10°	353471
15°	339283
20°	324019
25°	303017
30°	263771
35°	203541
40°	150593
45°	118503
50°	101796
55°	92552
60°	84379
65°	78083
70°	72149
75°	67628
80°	62803
85°	59265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	6.5
10°-20°	945.0	17.5
20°-30°	1278.7	23.7
30°-40°	1074.5	19.9
40°-50°	679.9	12.6
50°-60°	488.3	9.0
60°-70°	336.1	6.2
70°-80°	190.3	3.5
80°-90°	58.5	1.1
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°	2574.4	47.7
0°-40°	3648.9	67.5
0°-60°	4817.2	89.2
0°-90°	5402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3778	
5°	3725	351
15°	3363	945
25°	2818	1279
35°	1711	1074
45°	860	680
55°	545	488
65°	339	336
75°	180	190
85°	53	58
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3777.9
2.5°	3766.1
5°	3724.9
7.5°	3657.1
10°	3571.8
12.5°	3471.6
15°	3362.7
17.5°	3244.9
20°	3124.2
22.5°	2982.8
25°	2817.9
27.5°	2605.9
30°	2343.9
32.5°	2037.6
35°	1710.8
37.5°	1422.2
40°	1183.7
42.5°	998.2
45°	859.8
47.5°	753.8
50°	671.4
52.5°	603.6
55°	544.7
57.5°	485.9
60°	432.9
62.5°	382.8
65°	338.6
67.5°	294.5
70°	253.2
72.5°	215.0
75°	179.6
77.5°	144.3
80°	111.9
82.5°	82.4
85°	53.0
87.5°	23.6
90°	0.0



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— 0°-180°







(END OF REPORT)