

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: P252048

Luminaire Tested: **LD4B50D010TE EU4B30509727 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252048
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 EU4B30509727 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4447.0 lumens
Efficiency: N/A
Efficacy: 75.7 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

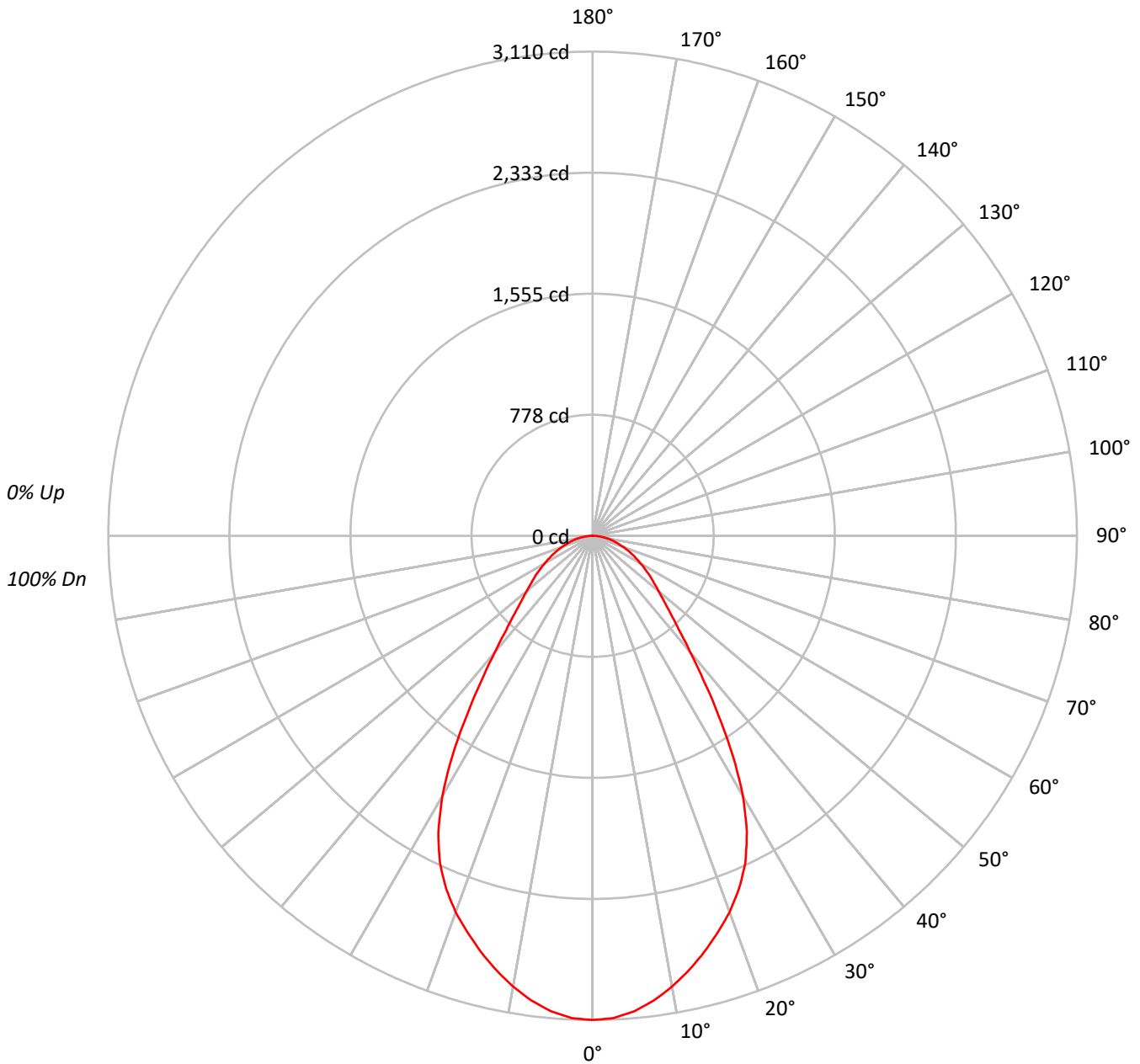
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	303095
5°	299987
10°	290977
15°	279300
20°	266739
25°	249455
30°	217136
35°	167552
40°	123978
45°	97554
50°	83799
55°	76189
60°	69449
65°	64293
70°	59412
75°	55692
80°	51690
85°	48754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	6.5
10°-20°	778.0	17.5
20°-30°	1052.7	23.7
30°-40°	884.5	19.9
40°-50°	559.7	12.6
50°-60°	402.0	9.0
60°-70°	276.7	6.2
70°-80°	156.6	3.5
80°-90°	48.1	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°	2119.3	47.7
0°-40°	3003.8	67.5
0°-60°	3965.5	89.2
0°-90°	4447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4447.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3110	
5°	3066	289
15°	2768	778
25°	2320	1053
35°	1408	885
45°	708	560
55°	448	402
65°	279	277
75°	148	157
85°	44	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3110.0
2.5°	3100.3
5°	3066.4
7.5°	3010.6
10°	2940.3
12.5°	2857.9
15°	2768.2
17.5°	2671.3
20°	2571.9
22.5°	2455.5
25°	2319.8
27.5°	2145.2
30°	1929.5
32.5°	1677.4
35°	1408.3
37.5°	1170.8
40°	974.5
42.5°	821.7
45°	707.8
47.5°	620.5
50°	552.7
52.5°	496.9
55°	448.4
57.5°	400.0
60°	356.3
62.5°	315.1
65°	278.8
67.5°	242.4
70°	208.5
72.5°	177.0
75°	147.9
77.5°	118.8
80°	92.1
82.5°	67.9
85°	43.6
87.5°	19.4
90°	0.0



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— 0°-180°







(END OF REPORT)