

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: P252037

Luminaire Tested: **LD4B50D010TE EU4B30508027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252037
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 EU4B30508027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5955.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

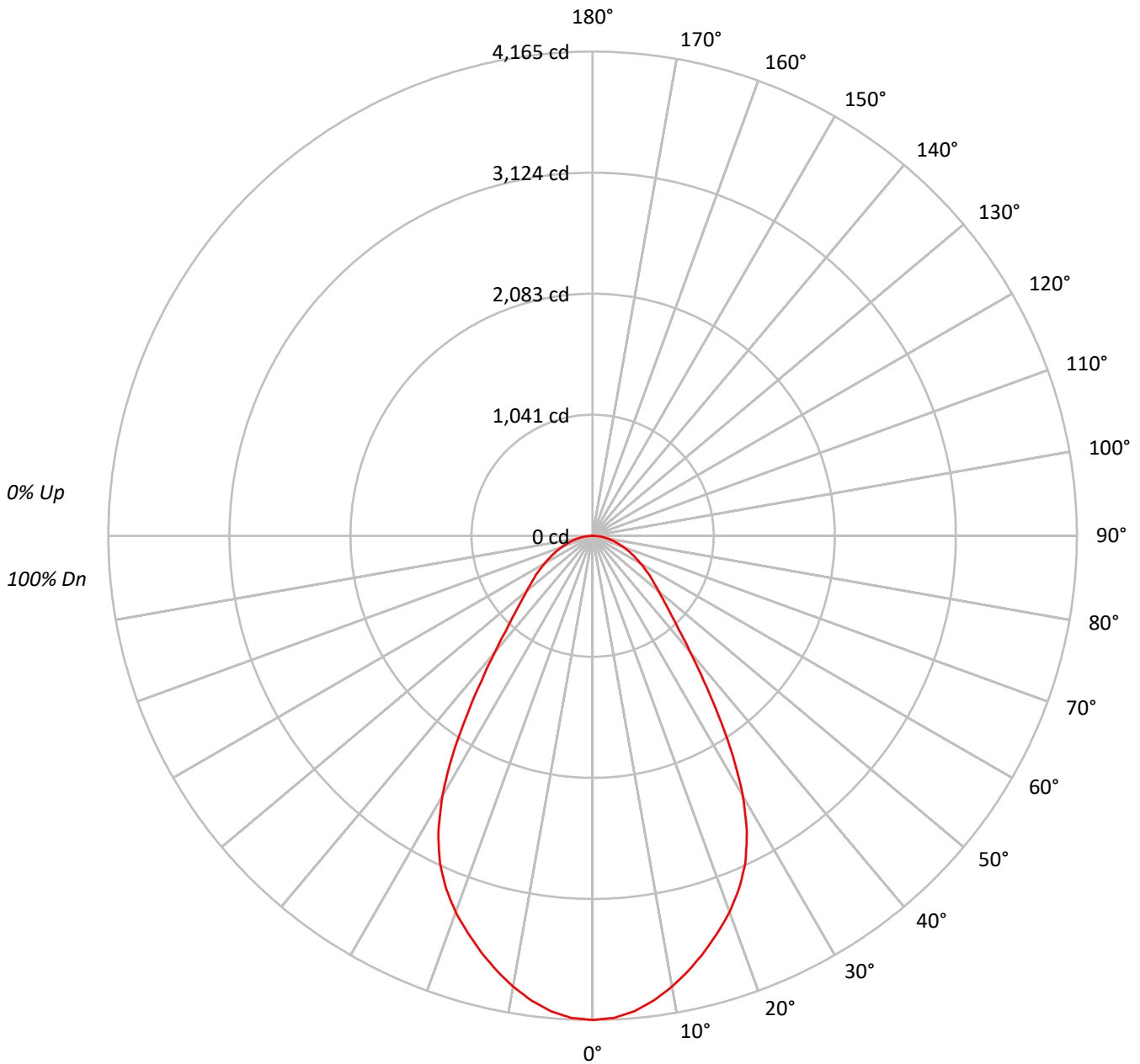
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	405874
5°	401711
10°	389651
15°	374011
20°	357187
25°	334041
30°	290768
35°	224374
40°	166013
45°	130632
50°	112212
55°	102033
60°	93014
65°	86085
70°	79558
75°	74557
80°	69201
85°	65303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.5	6.5
10°-20°	1041.8	17.5
20°-30°	1409.7	23.7
30°-40°	1184.5	19.9
40°-50°	749.5	12.6
50°-60°	538.3	9.0
60°-70°	370.5	6.2
70°-80°	209.7	3.5
80°-90°	64.5	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°	2837.9	47.7
0°-40°	4022.4	67.5
0°-60°	5310.3	89.2
0°-90°	5955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5955.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4165	
5°	4106	386
15°	3707	1042
25°	3106	1410
35°	1886	1184
45°	948	750
55°	600	538
65°	373	371
75°	198	210
85°	58	64
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4164.6
2.5°	4151.6
5°	4106.2
7.5°	4031.5
10°	3937.4
12.5°	3827.0
15°	3706.9
17.5°	3577.1
20°	3444.0
22.5°	3288.2
25°	3106.4
27.5°	2872.7
30°	2583.8
32.5°	2246.2
35°	1885.9
37.5°	1567.8
40°	1304.9
42.5°	1100.4
45°	947.8
47.5°	831.0
50°	740.1
52.5°	665.4
55°	600.5
57.5°	535.6
60°	477.2
62.5°	422.0
65°	373.3
67.5°	324.6
70°	279.2
72.5°	237.0
75°	198.0
77.5°	159.1
80°	123.3
82.5°	90.9
85°	58.4
87.5°	26.0
90°	0.0



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— 0°-180°







(END OF REPORT)