

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: P252123

Luminaire Tested: **LD4B50D010TE EU4B30509035 4LBBA1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252123
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 EU4B30509035 4LBBA1MB
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2251.0 lumens
Efficiency: N/A
Efficacy: 38.3 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

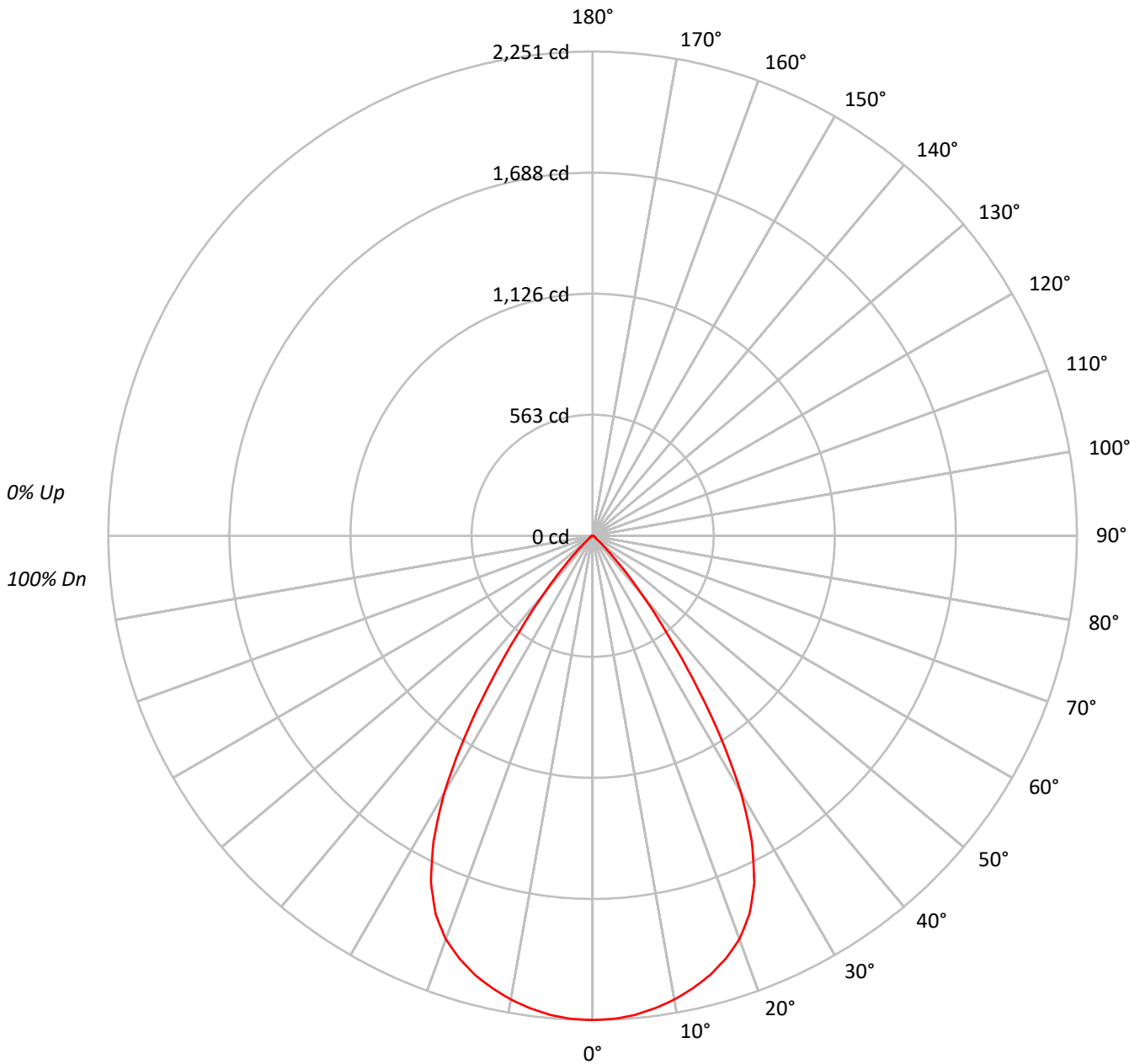
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	219398
5°	218798
10°	216676
15°	213203
20°	206959
25°	191205
30°	155118
35°	96155
40°	45240
45°	15795
50°	4458
55°	2990
60°	2300
65°	2029
70°	1681
75°	1092
80°	1628
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.0	9.4
10°-20°	593.9	26.4
20°-30°	798.4	35.5
30°-40°	510.0	22.7
40°-50°	108.4	4.8
50°-60°	16.4	0.7
60°-70°	8.0	0.4
70°-80°	3.5	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°	1604.3	71.3
0°-40°	2114.3	93.9
0°-60°	2239.1	99.5
0°-90°	2251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2251	
5°	2236	212
15°	2113	594
25°	1778	798
35°	808	510
45°	115	108
55°	18	16
65°	9	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2251.2
2.5°	2248.3
5°	2236.5
7.5°	2216.0
10°	2189.5
12.5°	2154.2
15°	2113.1
17.5°	2060.2
20°	1995.5
22.5°	1904.4
25°	1778.1
27.5°	1601.7
30°	1378.4
32.5°	1102.1
35°	808.2
37.5°	552.5
40°	355.6
42.5°	211.6
45°	114.6
47.5°	58.8
50°	29.4
52.5°	20.6
55°	17.6
57.5°	14.7
60°	11.8
62.5°	8.8
65°	8.8
67.5°	5.9
70°	5.9
72.5°	2.9
75°	2.9
77.5°	2.9
80°	2.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)