

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: P251986

Luminaire Tested: **LD4B15D010 EU4B10208030 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251986
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: LD4B15D010 EU4B10208030 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1790.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

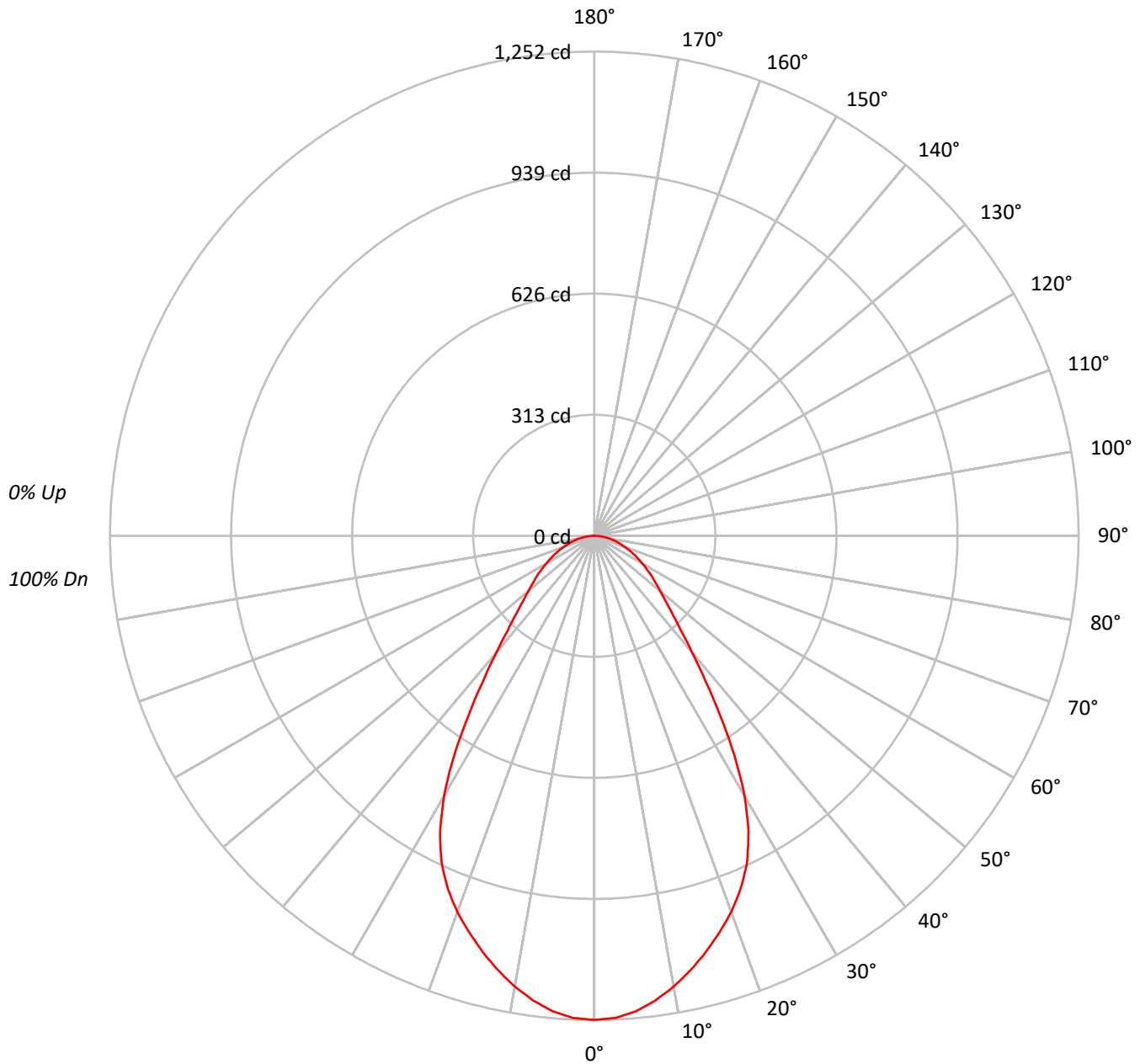
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	74	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		53
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121998
5°	120752
10°	117121
15°	112428
20°	107363
25°	100414
30°	87406
35°	67447
40°	49897
45°	39267
50°	33735
55°	30669
60°	27951
65°	25874
70°	23907
75°	22405
80°	20822
85°	19680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	6.5
10°-20°	313.2	17.5
20°-30°	423.7	23.7
30°-40°	356.1	19.9
40°-50°	225.3	12.6
50°-60°	161.8	9.0
60°-70°	111.4	6.2
70°-80°	63.0	3.5
80°-90°	19.4	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°	853.1	47.7
0°-40°	1209.1	67.5
0°-60°	1596.2	89.2
0°-90°	1790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1790.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1252	
5°	1234	116
15°	1114	313
25°	934	424
35°	567	356
45°	285	225
55°	180	162
65°	112	111
75°	60	63
85°	18	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1251.8
2.5°	1247.9
5°	1234.3
7.5°	1211.8
10°	1183.5
12.5°	1150.4
15°	1114.3
17.5°	1075.2
20°	1035.2
22.5°	988.4
25°	933.8
27.5°	863.5
30°	776.7
32.5°	675.2
35°	566.9
37.5°	471.3
40°	392.2
42.5°	330.8
45°	284.9
47.5°	249.8
50°	222.5
52.5°	200.0
55°	180.5
57.5°	161.0
60°	143.4
62.5°	126.8
65°	112.2
67.5°	97.6
70°	83.9
72.5°	71.2
75°	59.5
77.5°	47.8
80°	37.1
82.5°	27.3
85°	17.6
87.5°	7.8
90°	0.0



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— 0°-180°







(END OF REPORT)