

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: P251997

Luminaire Tested: **LD4B15D010 EU4B10209730 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251997
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 EU4B10209730 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1336.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

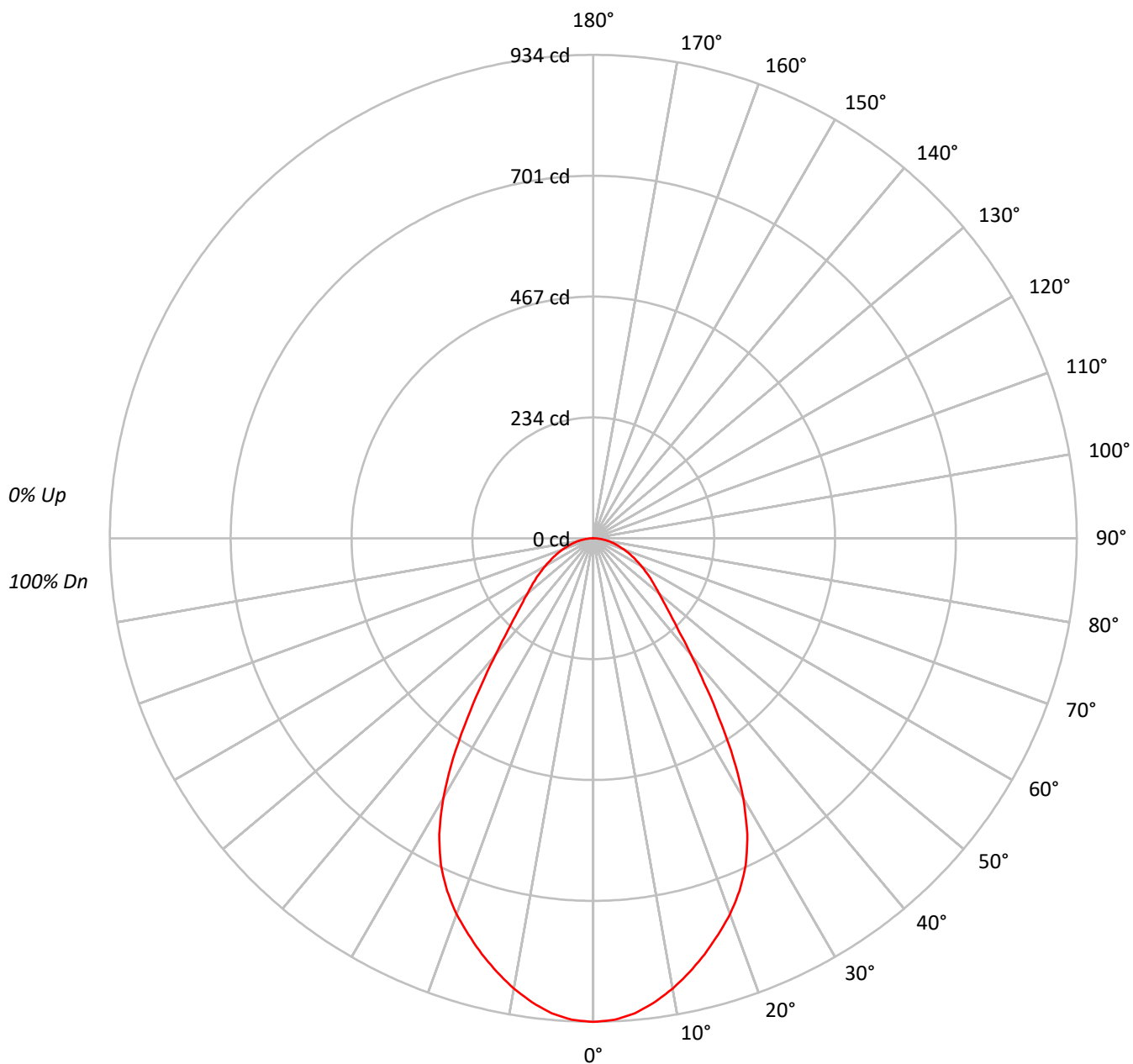
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		54	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°	91055
5°	90121
10°	87423
15°	83905
20°	80139
25°	74940
30°	65236
35°	50338
40°	37251
45°	29302
50°	25169
55°	22887
60°	20876
65°	19302
70°	17838
75°	16719
80°	15546
85°	14648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	6.5
10°-20°	233.7	17.5
20°-30°	316.3	23.7
30°-40°	265.7	19.9
40°-50°	168.1	12.6
50°-60°	120.8	9.0
60°-70°	83.1	6.2
70°-80°	47.1	3.5
80°-90°	14.5	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°	636.7	47.7
0°-40°	902.4	67.5
0°-60°	1191.4	89.2
0°-90°	1336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	934	
5°	921	87
15°	832	234
25°	697	316
35°	423	266
45°	213	168
55°	135	121
65°	84	83
75°	44	47
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	934.3
2.5°	931.4
5°	921.2
7.5°	904.5
10°	883.4
12.5°	858.6
15°	831.6
17.5°	802.5
20°	772.7
22.5°	737.7
25°	696.9
27.5°	644.5
30°	579.7
32.5°	503.9
35°	423.1
37.5°	351.7
40°	292.8
42.5°	246.9
45°	212.6
47.5°	186.4
50°	166.0
52.5°	149.3
55°	134.7
57.5°	120.2
60°	107.1
62.5°	94.7
65°	83.7
67.5°	72.8
70°	62.6
72.5°	53.2
75°	44.4
77.5°	35.7
80°	27.7
82.5°	20.4
85°	13.1
87.5°	5.8
90°	0.0



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— 0°-180°







(END OF REPORT)