

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: P251996

Luminaire Tested: **LD4B15D010 EU4B10209727 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251996
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 EU4B10209727 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: 1278.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

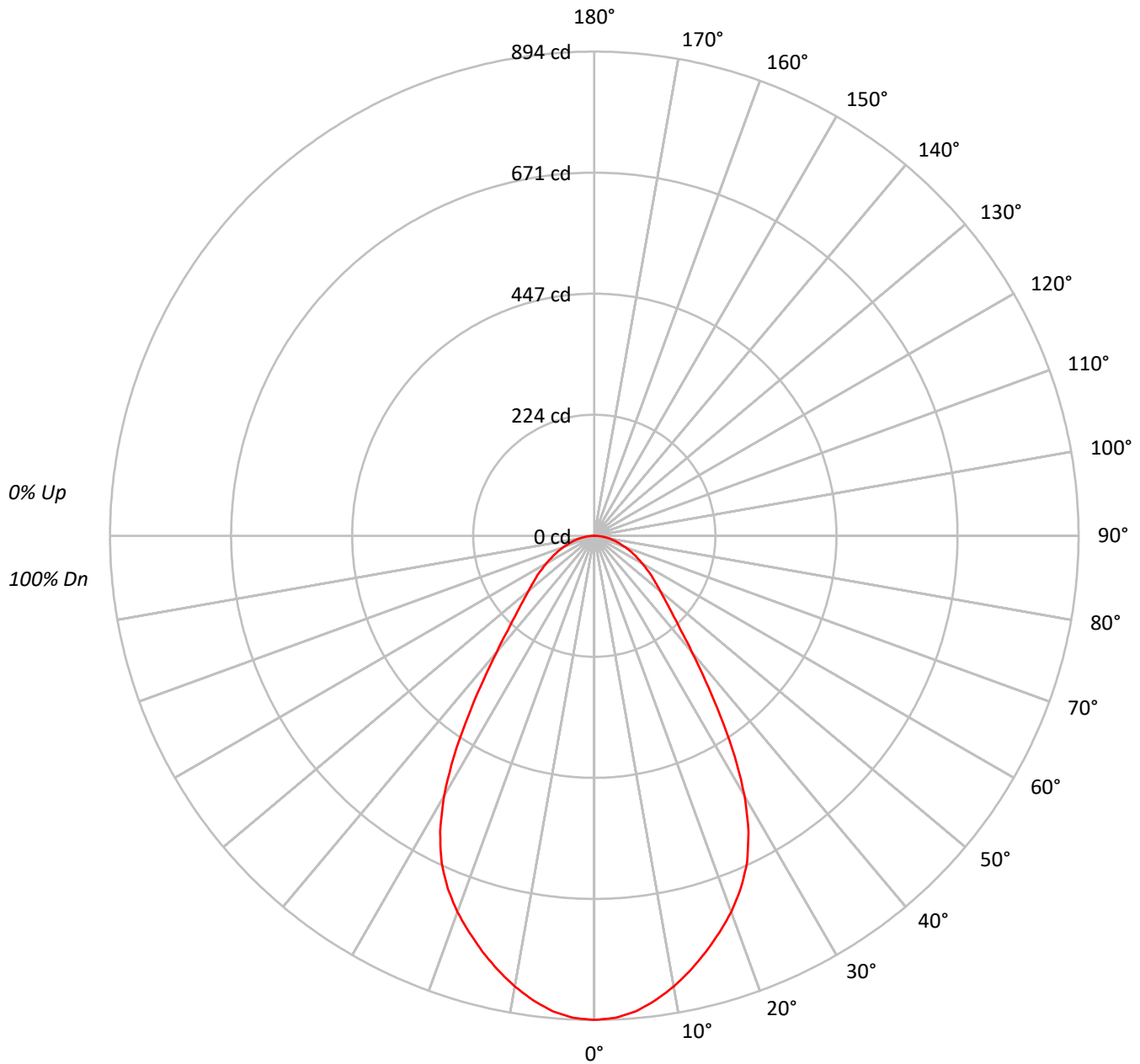
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62	
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51	
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43	
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87108
5°	86208
10°	83622
15°	80263
20°	76654
25°	71692
30°	62401
35°	48149
40°	35622
45°	28034
50°	24077
55°	21902
60°	19959
65°	18471
70°	17068
75°	16003
80°	14873
85°	13978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	6.5
10°-20°	223.6	17.5
20°-30°	302.5	23.7
30°-40°	254.2	19.9
40°-50°	160.9	12.6
50°-60°	115.5	9.0
60°-70°	79.5	6.2
70°-80°	45.0	3.5
80°-90°	13.8	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°	609.0	47.7
0°-40°	863.3	67.5
0°-60°	1139.6	89.2
0°-90°	1278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	894	
5°	881	83
15°	796	224
25°	667	303
35°	405	254
45°	203	161
55°	129	116
65°	80	80
75°	42	45
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	893.8
2.5°	891.0
5°	881.2
7.5°	865.2
10°	845.0
12.5°	821.3
15°	795.5
17.5°	767.7
20°	739.1
22.5°	705.7
25°	666.7
27.5°	616.5
30°	554.5
32.5°	482.1
35°	404.7
37.5°	336.5
40°	280.0
42.5°	236.2
45°	203.4
47.5°	178.3
50°	158.8
52.5°	142.8
55°	128.9
57.5°	114.9
60°	102.4
62.5°	90.6
65°	80.1
67.5°	69.7
70°	59.9
72.5°	50.9
75°	42.5
77.5°	34.1
80°	26.5
82.5°	19.5
85°	12.5
87.5°	5.6
90°	0.0



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— 0°-180°







(END OF REPORT)