

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: P251984

Luminaire Tested: **LD4B10D010 EU4B10209730 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P251984  
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: LD4B10D010 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: 959.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

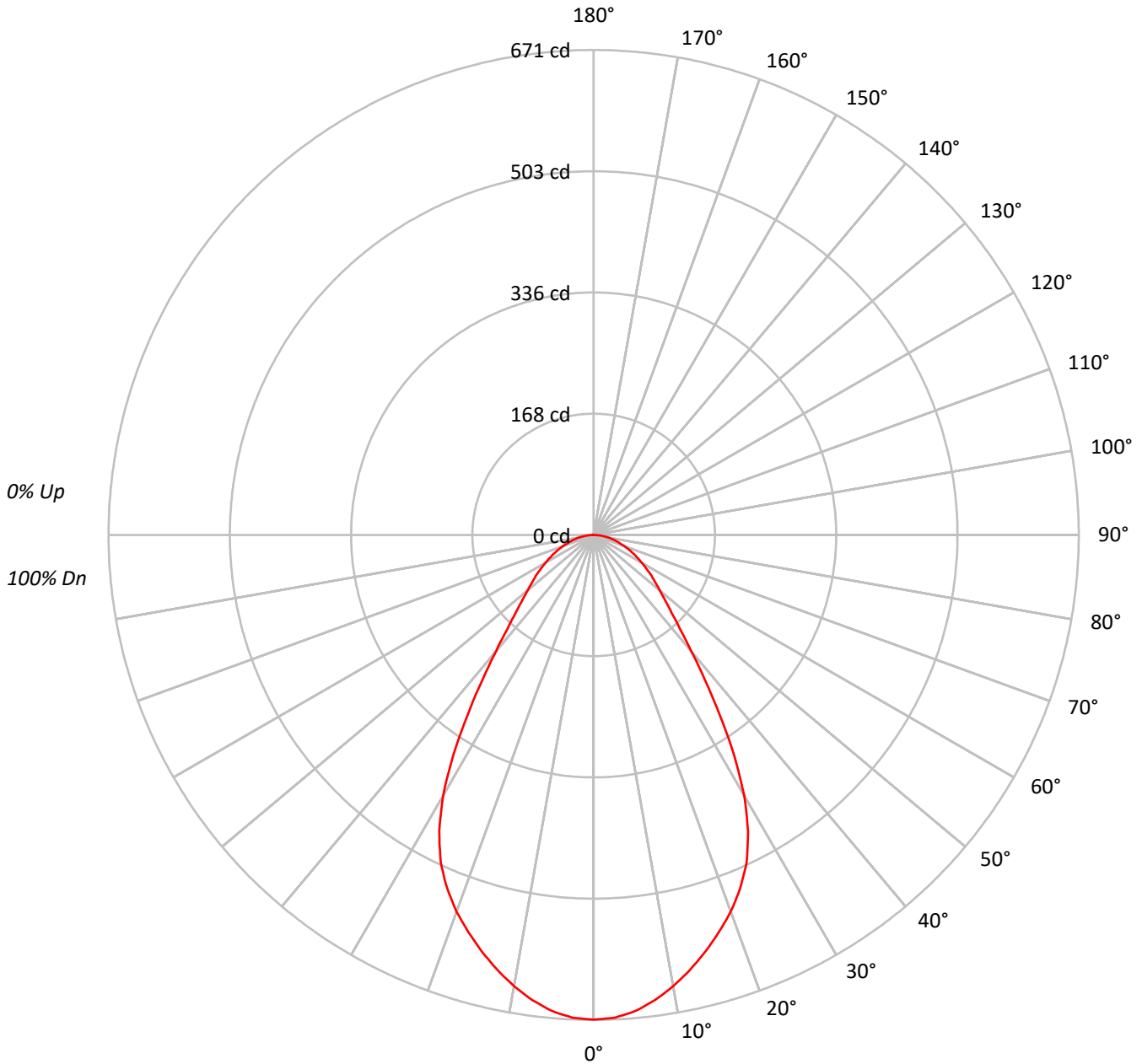
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	65365
5°	64695
10°	62752
15°	60235
20°	57519
25°	53799
30°	46826
35°	36133
40°	26729
45°	21032
50°	18073
55°	16431
60°	14970
65°	13859
70°	12823
75°	12012
80°	11169
85°	10511



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	6.5
10°-20°	167.8	17.5
20°-30°	227.0	23.7
30°-40°	190.7	19.9
40°-50°	120.7	12.6
50°-60°	86.7	9.0
60°-70°	59.7	6.2
70°-80°	33.8	3.5
80°-90°	10.4	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°	457.0	47.7
0°-40°	647.8	67.5
0°-60°	855.2	89.2
0°-90°	959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	959.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	671	
5°	661	62
15°	597	168
25°	500	227
35°	304	191
45°	153	121
55°	97	87
65°	60	60
75°	32	34
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	670.7
2.5°	668.6
5°	661.3
7.5°	649.2
10°	634.1
12.5°	616.3
15°	597.0
17.5°	576.1
20°	554.6
22.5°	529.5
25°	500.3
27.5°	462.6
30°	416.1
32.5°	361.7
35°	303.7
37.5°	252.5
40°	210.1
42.5°	177.2
45°	152.6
47.5°	133.8
50°	119.2
52.5°	107.2
55°	96.7
57.5°	86.3
60°	76.8
62.5°	68.0
65°	60.1
67.5°	52.3
70°	45.0
72.5°	38.2
75°	31.9
77.5°	25.6
80°	19.9
82.5°	14.6
85°	9.4
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)