

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: P251974

Luminaire Tested: **LD4B10D010 EU4B10208035 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P251974  
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 EU4B10208035 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

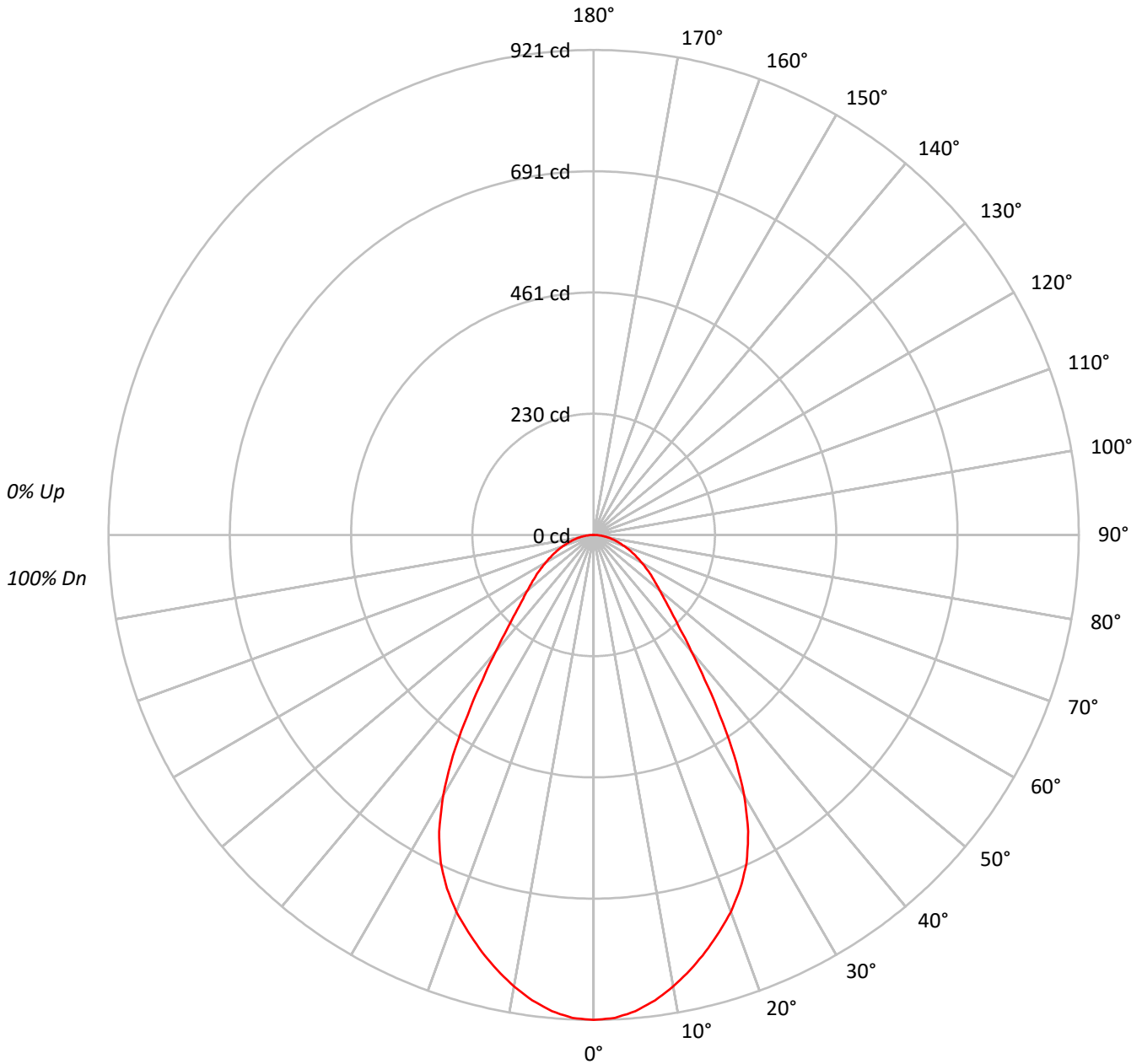
Lumens per Lamp: N/A  
Luminaire Lumens: 1317.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	89759
5°	88840
10°	86176
15°	82715
20°	78998
25°	73875
30°	64302
35°	49624
40°	36716
45°	28888
50°	24820
55°	22564
60°	20564
65°	19048
70°	17581
75°	16493
80°	15322
85°	14425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	6.5
10°-20°	230.4	17.5
20°-30°	311.8	23.7
30°-40°	262.0	19.9
40°-50°	165.8	12.6
50°-60°	119.1	9.0
60°-70°	81.9	6.2
70°-80°	46.4	3.5
80°-90°	14.2	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°	627.6	47.7
0°-40°	889.6	67.5
0°-60°	1174.4	89.2
0°-90°	1317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	921	
5°	908	85
15°	820	230
25°	687	312
35°	417	262
45°	210	166
55°	133	119
65°	83	82
75°	44	46
85°	13	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	921.0
2.5°	918.2
5°	908.1
7.5°	891.6
10°	870.8
12.5°	846.4
15°	819.8
17.5°	791.1
20°	761.7
22.5°	727.2
25°	687.0
27.5°	635.3
30°	571.4
32.5°	496.8
35°	417.1
37.5°	346.7
40°	288.6
42.5°	243.4
45°	209.6
47.5°	183.8
50°	163.7
52.5°	147.2
55°	132.8
57.5°	118.5
60°	105.5
62.5°	93.3
65°	82.6
67.5°	71.8
70°	61.7
72.5°	52.4
75°	43.8
77.5°	35.2
80°	27.3
82.5°	20.1
85°	12.9
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)