

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: P251972

Luminaire Tested: **LD4B10D010 EU4B10208027 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P251972  
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 EU4B10208027 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1230.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

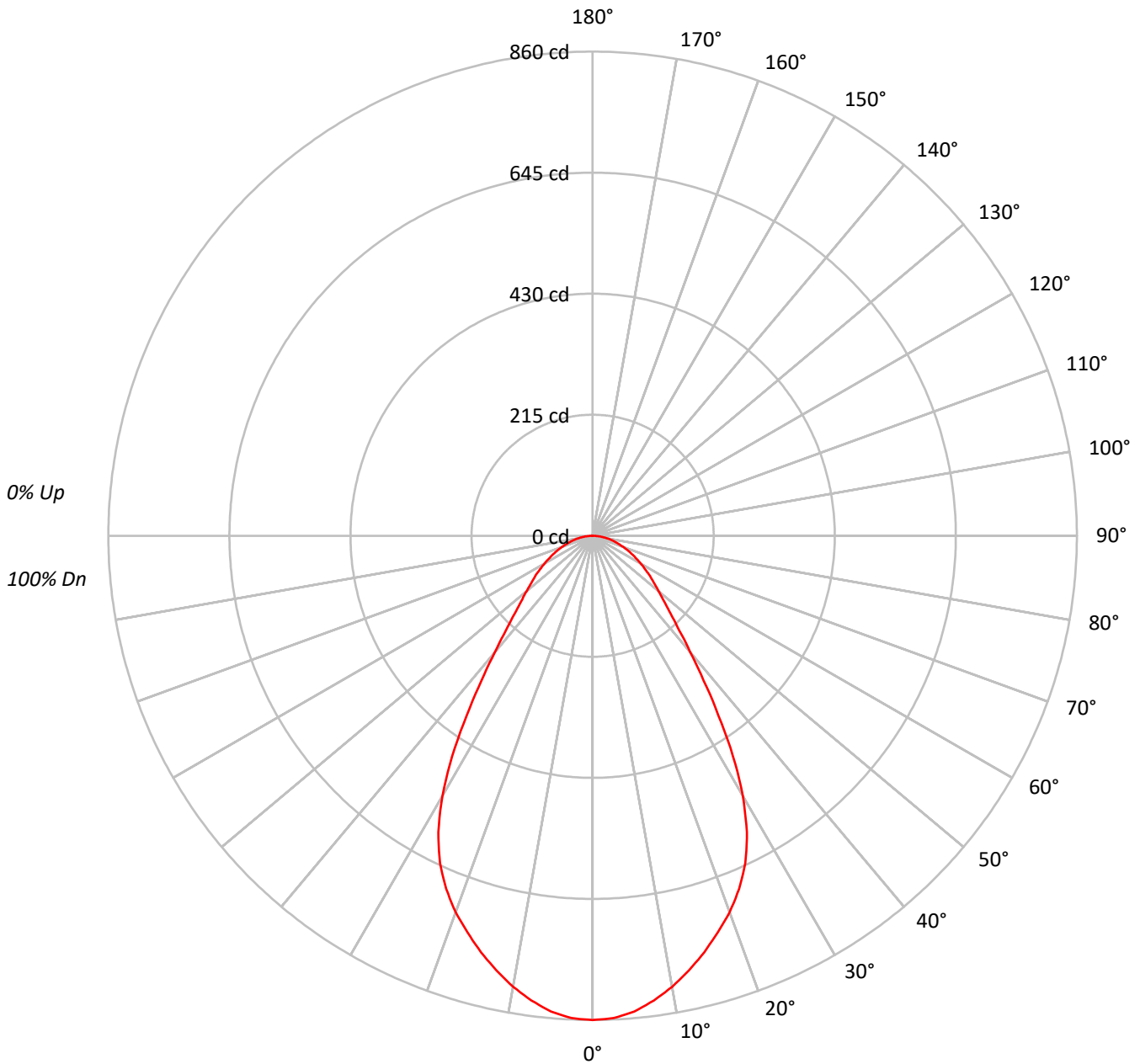
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251972

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBBA1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P251972

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBBA1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	83833
5°	82970
10°	80485
15°	77256
20°	73781
25°	68993
30°	60060
35°	46341
40°	34286
45°	26986
50°	23182
55°	21069
60°	19219
65°	17780
70°	16442
75°	15401
80°	14312
85°	13530



TEST NUMBER: P251972

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBBA1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	6.5
10°-20°	215.2	17.5
20°-30°	291.2	23.7
30°-40°	244.7	19.9
40°-50°	154.8	12.6
50°-60°	111.2	9.0
60°-70°	76.5	6.2
70°-80°	43.3	3.5
80°-90°	13.3	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°	586.2	47.7
0°-40°	830.8	67.5
0°-60°	1096.8	89.2
0°-90°	1230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	860	
5°	848	80
15°	766	215
25°	642	291
35°	390	245
45°	196	155
55°	124	111
65°	77	77
75°	41	43
85°	12	13
90°	0	



TEST NUMBER: P251972

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBBA1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	860.2
2.5°	857.5
5°	848.1
7.5°	832.7
10°	813.3
12.5°	790.5
15°	765.7
17.5°	738.8
20°	711.4
22.5°	679.2
25°	641.6
27.5°	593.4
30°	533.7
32.5°	464.0
35°	389.5
37.5°	323.8
40°	269.5
42.5°	227.3
45°	195.8
47.5°	171.6
50°	152.9
52.5°	137.4
55°	124.0
57.5°	110.6
60°	98.6
62.5°	87.2
65°	77.1
67.5°	67.0
70°	57.7
72.5°	48.9
75°	40.9
77.5°	32.9
80°	25.5
82.5°	18.8
85°	12.1
87.5°	5.4
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)