

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: P35172

Luminaire Tested: **LD4B10D010 EU4B10209027 4LBWMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P35172  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209027 4LBWMW1  
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W  
DL3-11.1W DLE-11.39W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 770.7 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

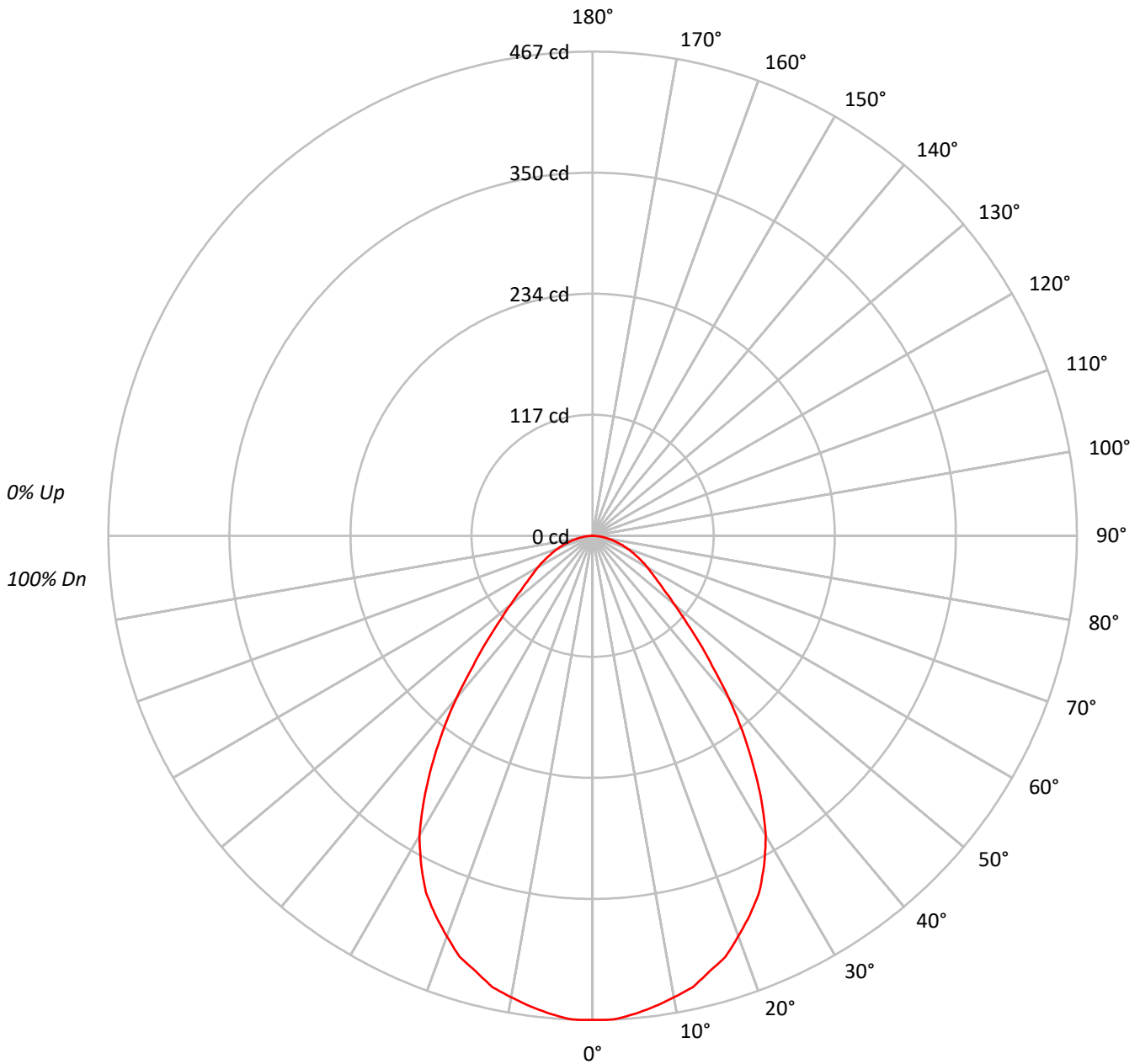
Input Watts (W): 9.73  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35			

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

	0°
0°	51025
5°	50781
10°	50148
15°	49205
20°	47788
25°	45811
30°	42139
35°	36013
40°	29096
45°	22405
50°	17508
55°	14668
60°	13330
65°	12151
70°	11181
75°	10132
80°	8809
85°	7522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	5.7
10°-20°	122.6	15.9
20°-30°	173.3	22.5
30°-40°	167.9	21.8
40°-50°	113.3	14.7
50°-60°	70.3	9.1
60°-70°	47.0	6.1
70°-80°	25.7	3.3
80°-90°	6.8	0.9
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°	339.8	44.1
0°-40°	507.6	65.9
0°-60°	691.2	89.7
0°-90°	770.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	467	
5°	463	44
15°	435	123
25°	380	173
35°	270	168
45°	145	113
55°	77	70
65°	47	47
75°	24	26
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	467
2.5°	467
5°	463
7.5°	458
10°	452
12.5°	446
15°	435
17.5°	426
20°	411
22.5°	396
25°	380
27.5°	358
30°	334
32.5°	303
35°	270
37.5°	237
40°	204
42.5°	171
45°	145
47.5°	121
50°	103
52.5°	88
55°	77
57.5°	68
60°	61
62.5°	54
65°	47
67.5°	41
70°	35
72.5°	30
75°	24
77.5°	19
80°	14
82.5°	10
85°	6
87.5°	2
90°	0



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— 0°-180°







(END OF REPORT)