

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: P207131

Luminaire Tested: **LD4B10D010 EU4B10209024 4LBMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207131  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10D010 EU4B10209024 4LBMH1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 583.2 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

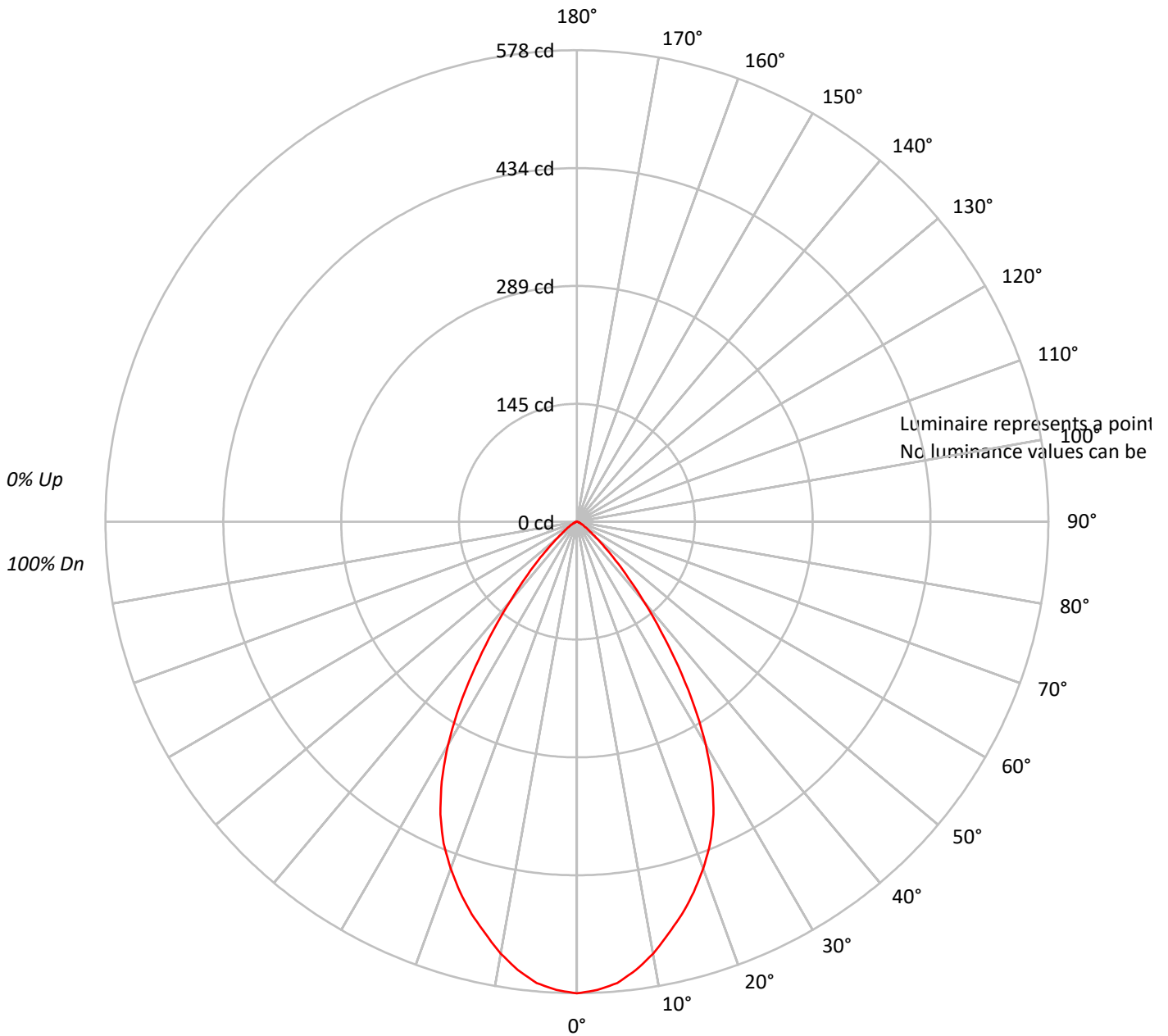
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P207131

CATALOG NUMBER: LD4B10D010 EU4B10209024 4LBMH1

### Luminous Intensity Polar Plot





TEST NUMBER: P207131

CATALOG NUMBER: LD4B10D010 EU4B10209024 4LBMH1

**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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

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





TEST NUMBER: P207131

CATALOG NUMBER: LD4B10D010 EU4B10209024 4LBMH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	9.1
10°-20°	139.6	23.9
20°-30°	179.4	30.8
30°-40°	135.0	23.1
40°-50°	54.2	9.3
50°-60°	15.4	2.6
60°-70°	4.9	0.8
70°-80°	1.4	0.2
80°-90°	0.1	0.0
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°	372.2	63.8
0°-40°	507.2	87.0
0°-60°	576.8	98.9
0°-90°	583.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	583.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	578	
5°	568	53
15°	498	140
25°	396	179
35°	216	135
45°	67	54
55°	16	15
65°	4	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P207131

CATALOG NUMBER: LD4B10D010 EU4B10209024 4LBMH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	578.3
2.5°	574.8
5°	567.8
7.5°	554.5
10°	537.8
12.5°	517.6
15°	498.2
17.5°	476.2
20°	452.4
22.5°	426.9
25°	396.1
27.5°	359.1
30°	316.0
32.5°	267.6
35°	216.5
37.5°	169.0
40°	126.8
42.5°	93.3
45°	66.9
47.5°	45.8
50°	31.7
52.5°	22.0
55°	15.8
57.5°	11.4
60°	8.8
62.5°	6.2
65°	4.4
67.5°	3.5
70°	2.6
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)