

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: P207070

Luminaire Tested: **LD4B30D010 EU4B30509040 4LBWMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207070  
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: LD4B30D010 EU4B30509040 4LBWMW1  
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2211.5 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

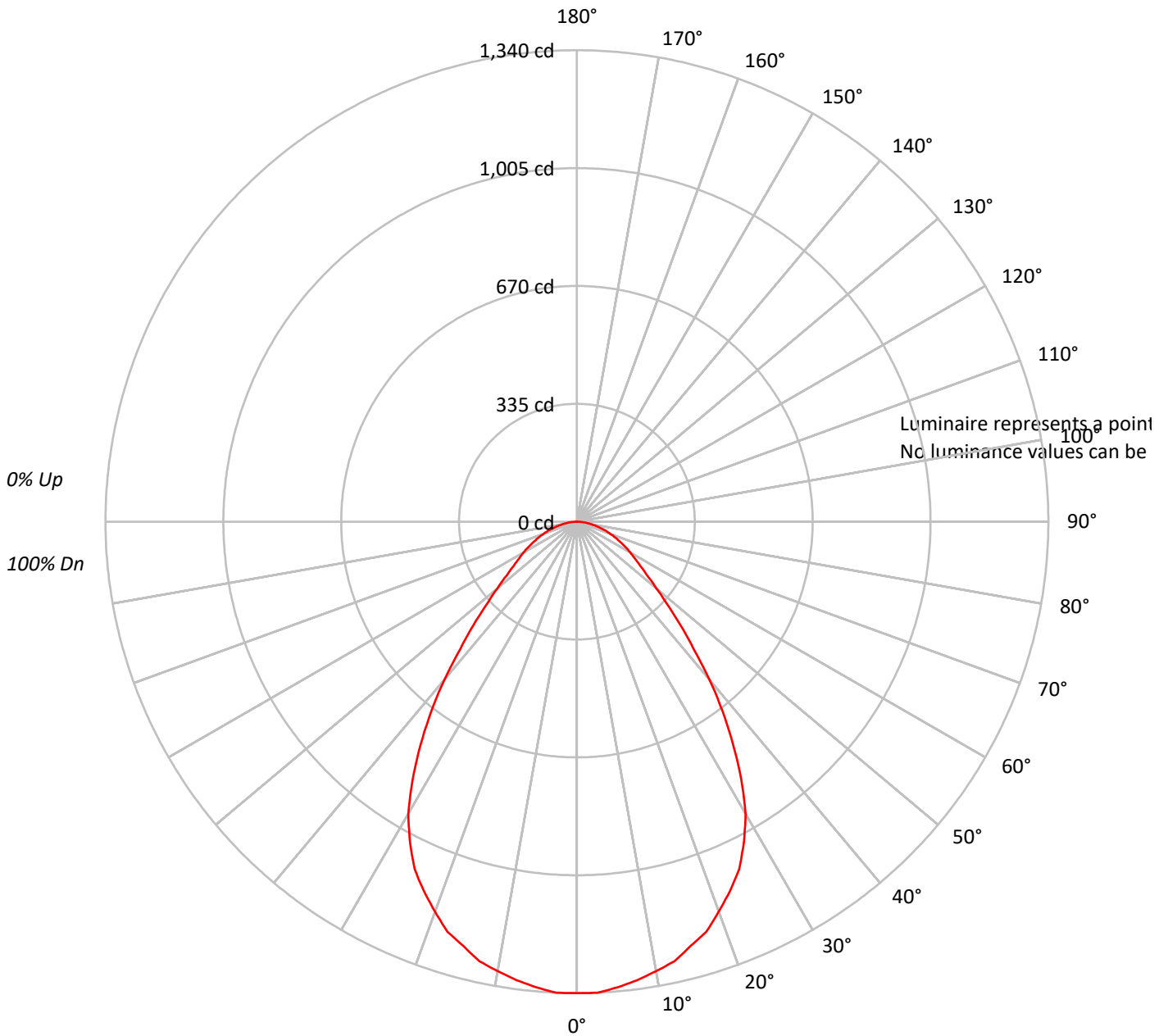
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P207070

CATALOG NUMBER: LD4B30D010 EU4B30509040 4LBWMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P207070

CATALOG NUMBER: LD4B30D010 EU4B30509040 4LBWMW1

**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):**





TEST NUMBER: P207070

CATALOG NUMBER: LD4B30D010 EU4B30509040 4LBWMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	5.7
10°-20°	351.9	15.9
20°-30°	497.3	22.5
30°-40°	481.7	21.8
40°-50°	325.0	14.7
50°-60°	201.7	9.1
60°-70°	134.8	6.1
70°-80°	73.8	3.3
80°-90°	19.5	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°	975.0	44.1
0°-40°	1456.7	65.9
0°-60°	1983.4	89.7
0°-90°	2211.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1340	
5°	1329	126
15°	1248	352
25°	1090	497
35°	775	482
45°	416	325
55°	221	202
65°	135	135
75°	69	74
85°	17	20
90°	0	



TEST NUMBER: P207070

CATALOG NUMBER: LD4B30D010 EU4B30509040 4LBMMW1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1340.1
2.5°	1340.1
5°	1328.6
7.5°	1314.3
10°	1297.1
12.5°	1279.8
15°	1248.3
17.5°	1222.5
20°	1179.4
22.5°	1136.4
25°	1090.5
27.5°	1027.3
30°	958.5
32.5°	869.5
35°	774.8
37.5°	680.1
40°	585.4
42.5°	490.7
45°	416.1
47.5°	347.2
50°	295.6
52.5°	252.5
55°	221.0
57.5°	195.1
60°	175.0
62.5°	155.0
65°	134.9
67.5°	117.7
70°	100.4
72.5°	86.1
75°	68.9
77.5°	54.5
80°	40.2
82.5°	28.7
85°	17.2
87.5°	5.7
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)