

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: P207171

Luminaire Tested: **LD4B30D010 EU4B30509030 4LBMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207171  
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 EU4B30509030 4LBMH1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 1874.1 lumens  
Efficiency: N/A  
Efficacy: 66.9 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

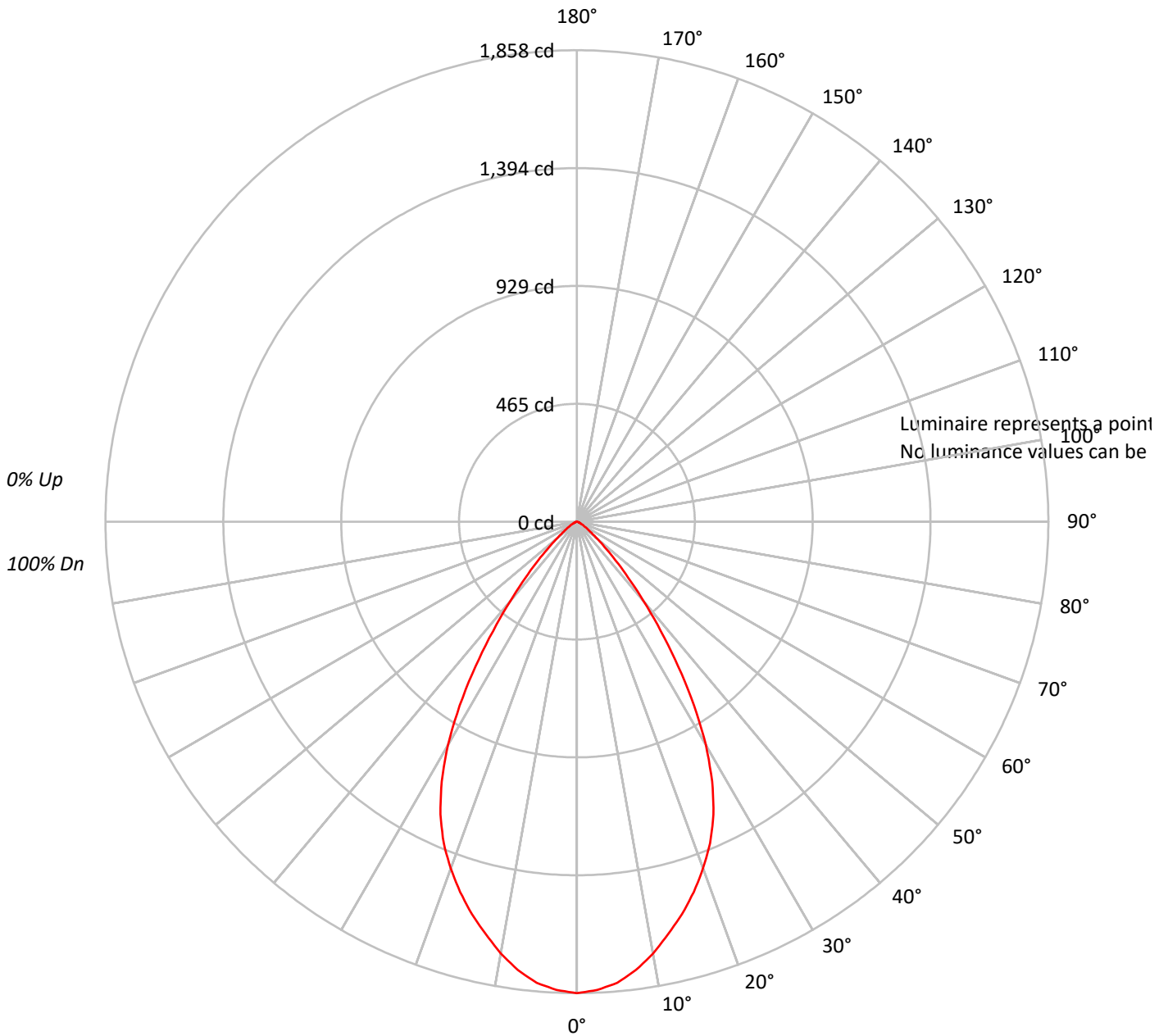
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P207171

CATALOG NUMBER: LD4B30D010 EU4B30509030 4LBMH1

### Luminous Intensity Polar Plot





TEST NUMBER: P207171

CATALOG NUMBER: LD4B30D010 EU4B30509030 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73		
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67		
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62		
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58		
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47		

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





TEST NUMBER: P207171

CATALOG NUMBER: LD4B30D010 EU4B30509030 4LBMH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.0	9.1
10°-20°	448.6	23.9
20°-30°	576.5	30.8
30°-40°	433.8	23.1
40°-50°	174.2	9.3
50°-60°	49.5	2.6
60°-70°	15.7	0.8
70°-80°	4.5	0.2
80°-90°	0.4	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°	1196.1	63.8
0°-40°	1629.9	87.0
0°-60°	1853.6	98.9
0°-90°	1874.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1874.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1858	
5°	1824	171
15°	1601	449
25°	1273	577
35°	696	434
45°	215	174
55°	51	50
65°	14	16
75°	3	4
85°	0	0
90°	0	



TEST NUMBER: P207171

CATALOG NUMBER: LD4B30D010 EU4B30509030 4LBMH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1858.4
2.5°	1847.0
5°	1824.4
7.5°	1782.0
10°	1728.2
12.5°	1663.2
15°	1601.0
17.5°	1530.2
20°	1453.9
22.5°	1371.8
25°	1272.8
27.5°	1154.0
30°	1015.4
32.5°	859.9
35°	695.8
37.5°	543.1
40°	407.3
42.5°	299.8
45°	215.0
47.5°	147.1
50°	101.8
52.5°	70.7
55°	50.9
57.5°	36.8
60°	28.3
62.5°	19.8
65°	14.1
67.5°	11.3
70°	8.5
72.5°	5.7
75°	2.8
77.5°	2.8
80°	2.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)