

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: P212010

Luminaire Tested: **LE\_4B30D010 EC4B30509730 4LBS1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212010  
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: LE\_4B30D010 EC4B30509730 4LBS1LI  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH 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: 3625.3 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

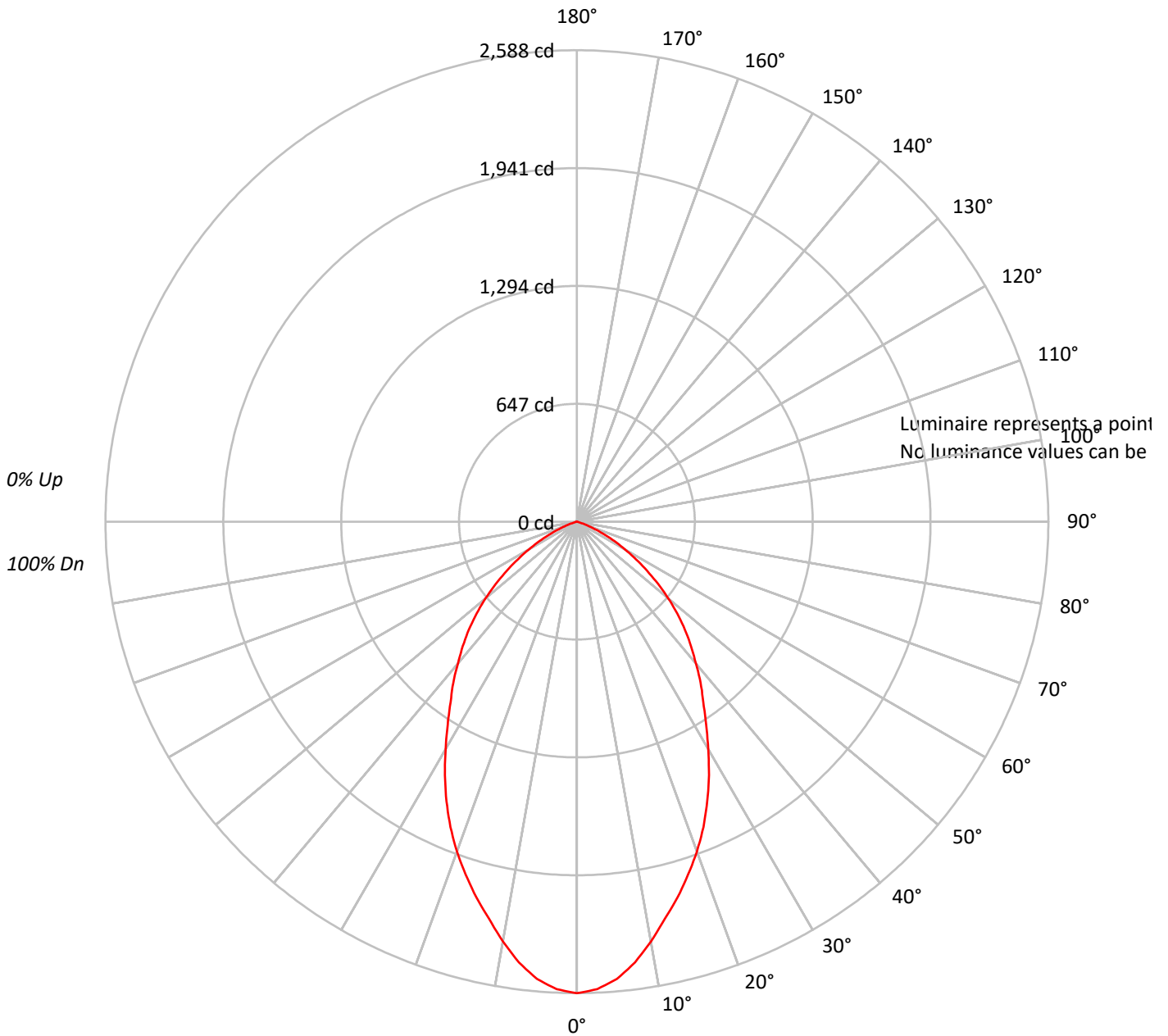
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212010

CATALOG NUMBER: LE\_4B30D010 EC4B30509730 4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P212010

CATALOG NUMBER: LE\_4B30D010 EC4B30509730 4LBS1LI

**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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			

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





TEST NUMBER: P212010

CATALOG NUMBER: LE\_4B30D010 EC4B30509730 4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.7	6.5
10°-20°	598.6	16.5
20°-30°	775.7	21.4
30°-40°	760.0	21.0
40°-50°	644.2	17.8
50°-60°	422.3	11.6
60°-70°	169.7	4.7
70°-80°	19.5	0.5
80°-90°	0.6	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°	1609.0	44.4
0°-40°	2369.0	65.3
0°-60°	3435.5	94.8
0°-90°	3625.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2588	
5°	2520	235
15°	2135	599
25°	1694	776
35°	1208	760
45°	839	644
55°	470	422
65°	164	170
75°	8	19
85°	0	1
90°	0	



TEST NUMBER: P212010

CATALOG NUMBER: LE\_4B30D010 EC4B30509730 4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2588.5
2.5°	2568.5
5°	2520.3
7.5°	2440.1
10°	2339.7
12.5°	2231.4
15°	2135.0
17.5°	2030.7
20°	1926.3
22.5°	1814.0
25°	1693.6
27.5°	1569.1
30°	1440.7
32.5°	1320.3
35°	1208.0
37.5°	1115.7
40°	1015.3
42.5°	927.1
45°	838.8
47.5°	746.5
50°	654.1
52.5°	561.9
55°	469.6
57.5°	385.2
60°	305.0
62.5°	232.8
65°	164.5
67.5°	108.3
70°	64.3
72.5°	28.1
75°	8.0
77.5°	4.1
80°	4.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)