

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: P212026

Luminaire Tested: **LSR4B30D010BZ EC4B30508035 4LBMLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212026  
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: LSR4B30D010BZ EC4B30508035 4LBML1  
Description: PORTFOLIO 4 INCH CYLINDER  
MEDIUM 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: 2805.1 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.76  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

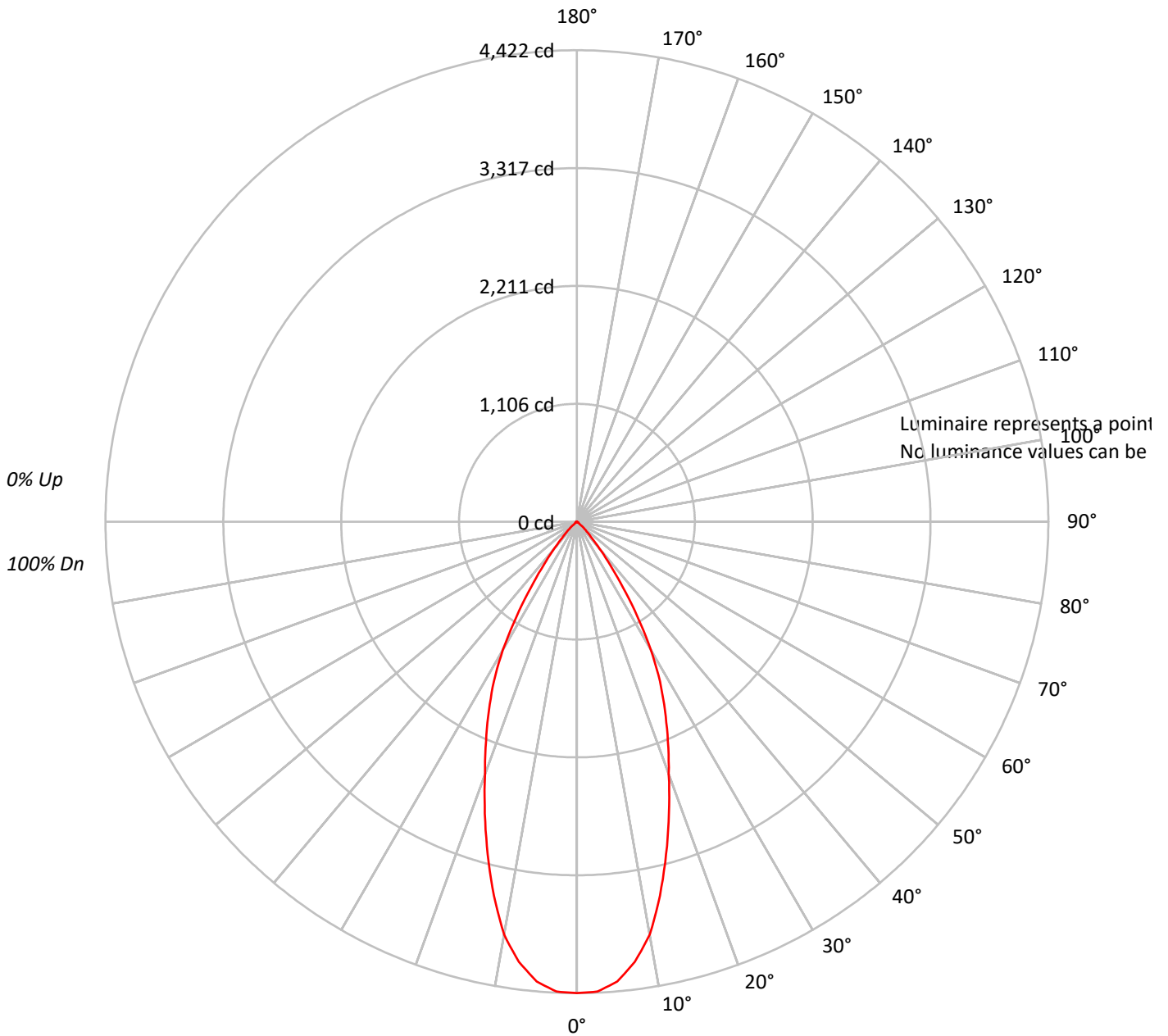
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212026

CATALOG NUMBER: LSR4B30D010BZ EC4B30508035 4LBML11

### Luminous Intensity Polar Plot





TEST NUMBER: P212026

CATALOG NUMBER: LSR4B30D010BZ EC4B30508035 4LBML11

**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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94		
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88		
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83		
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78		
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73		
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69		
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65		
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62		
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58		
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56		

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





TEST NUMBER: P212026

CATALOG NUMBER: LSR4B30D010BZ EC4B30508035 4LBML11

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.4	14.3
10°-20°	895.1	31.9
20°-30°	889.9	31.7
30°-40°	484.6	17.3
40°-50°	112.0	4.0
50°-60°	15.8	0.6
60°-70°	5.9	0.2
70°-80°	1.3	0.0
80°-90°	0.0	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°	2185.5	77.9
0°-40°	2670.1	95.2
0°-60°	2797.9	99.7
0°-90°	2805.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4422	
5°	4330	400
15°	3231	895
25°	1951	890
35°	750	485
45°	129	112
55°	17	16
65°	7	6
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P212026

CATALOG NUMBER: LSR4B30D010BZ EC4B30508035 4LBML11

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4422.1
2.5°	4412.0
5°	4330.5
7.5°	4164.2
10°	3933.4
12.5°	3594.1
15°	3230.9
17.5°	2871.2
20°	2518.2
22.5°	2229.7
25°	1951.4
27.5°	1686.7
30°	1388.1
32.5°	1055.5
35°	750.0
37.5°	505.7
40°	329.2
42.5°	207.0
45°	129.0
47.5°	74.7
50°	37.3
52.5°	20.4
55°	17.0
57.5°	10.2
60°	10.2
62.5°	6.8
65°	6.8
67.5°	3.4
70°	3.4
72.5°	3.4
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)