

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: P211085

Luminaire Tested: **LSR4B15D010BZ EC4B10209024 4LBSWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211085  
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: LSR4B15D010BZ EC4B10209024 4LBSWMH1  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1076.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

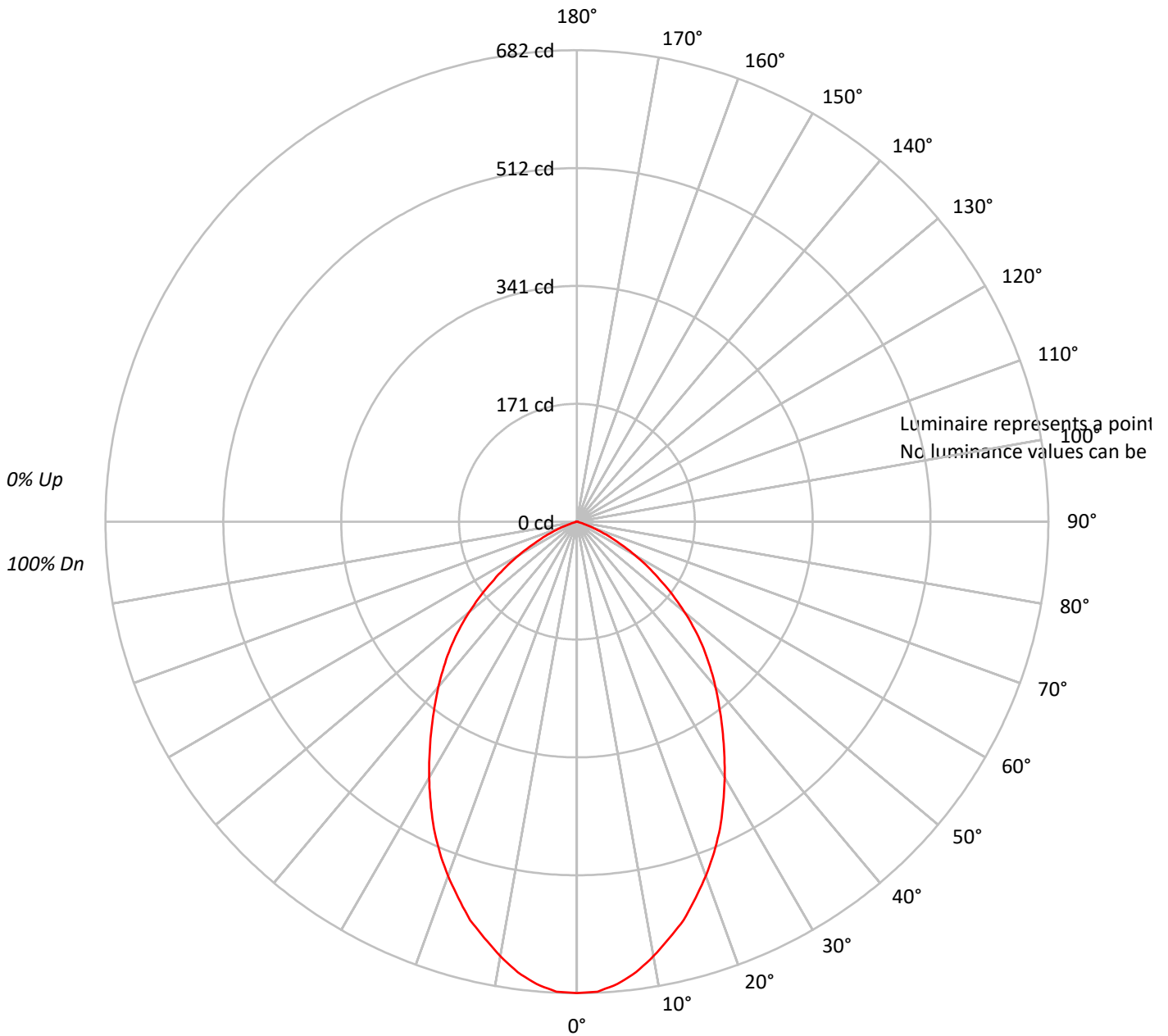
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P211085

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBSWMH1

### Luminous Intensity Polar Plot





TEST NUMBER: P211085

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBSWMH1

**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	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	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35

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





TEST NUMBER: P211085

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBSWMH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	5.9
10°-20°	167.0	15.5
20°-30°	224.3	20.8
30°-40°	229.6	21.3
40°-50°	198.7	18.5
50°-60°	132.2	12.3
60°-70°	54.3	5.0
70°-80°	6.5	0.6
80°-90°	0.3	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°	454.4	42.2
0°-40°	684.1	63.6
0°-60°	1015.0	94.3
0°-90°	1076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	682	
5°	671	63
15°	597	167
25°	490	224
35°	367	230
45°	259	199
55°	147	132
65°	54	54
75°	3	6
85°	0	0
90°	0	



TEST NUMBER: P211085

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBSWMH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	682.0
2.5°	680.6
5°	671.4
7.5°	657.3
10°	638.3
12.5°	617.1
15°	596.7
17.5°	570.6
20°	545.2
22.5°	518.4
25°	489.5
27.5°	458.4
30°	427.4
32.5°	396.4
35°	366.7
37.5°	338.5
40°	311.7
42.5°	284.9
45°	258.8
47.5°	231.3
50°	203.1
52.5°	174.9
55°	146.7
57.5°	122.0
60°	96.6
62.5°	73.3
65°	53.6
67.5°	35.3
70°	20.5
72.5°	9.9
75°	2.8
77.5°	1.4
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)