

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: P211065

Luminaire Tested: **LSR4B15D010BZ EC4B10209024 4LBCSMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211065  
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 4LBCSMW1  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1127.7 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

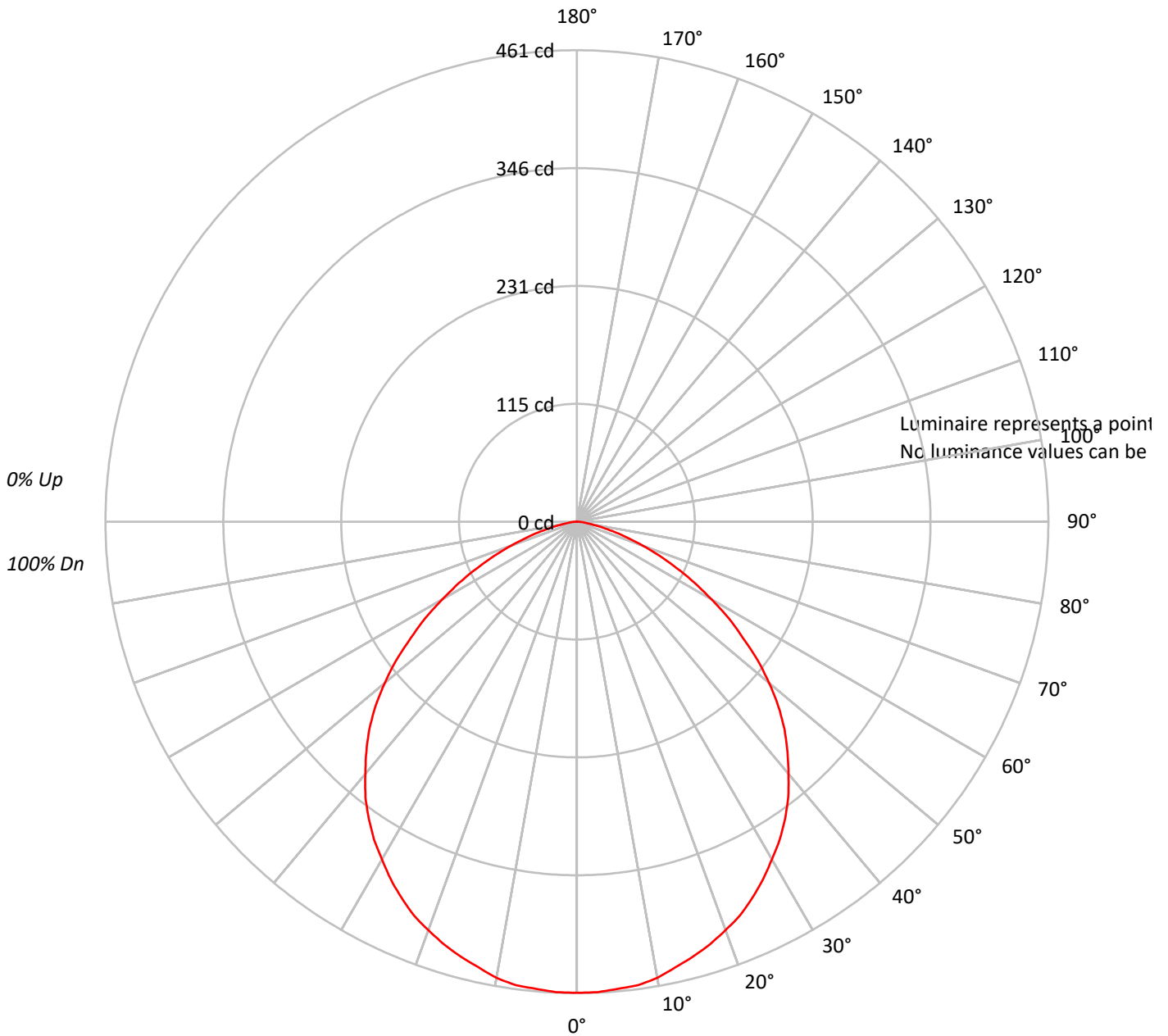
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P211065

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBCSMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P211065

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBCSMW1

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74																			
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63																			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55																			
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48																			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33																			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30																			
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27																			

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





TEST NUMBER: P211065

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBCSMW1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.6	3.9
10°-20°	124.2	11.0
20°-30°	186.9	16.6
30°-40°	221.5	19.6
40°-50°	220.4	19.5
50°-60°	177.7	15.8
60°-70°	107.5	9.5
70°-80°	39.9	3.5
80°-90°	6.0	0.5
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°	354.7	31.5
0°-40°	576.2	51.1
0°-60°	974.3	86.4
0°-90°	1127.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	461	
5°	458	44
15°	440	124
25°	406	187
35°	355	221
45°	287	220
55°	198	178
65°	108	107
75°	36	40
85°	5	6
90°	0	



TEST NUMBER: P211065

CATALOG NUMBER: LSR4B15D010BZ EC4B10209024 4LBCSMW1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	460.6
2.5°	460.6
5°	458.5
7.5°	457.2
10°	453.1
12.5°	446.2
15°	440.1
17.5°	433.2
20°	425.0
22.5°	416.8
25°	405.9
27.5°	394.3
30°	381.3
32.5°	369.0
35°	354.7
37.5°	339.6
40°	321.9
42.5°	304.8
45°	287.0
47.5°	267.2
50°	245.3
52.5°	222.8
55°	198.2
57.5°	176.3
60°	151.7
62.5°	129.8
65°	108.0
67.5°	87.5
70°	68.3
72.5°	51.3
75°	36.2
77.5°	23.2
80°	13.7
82.5°	8.2
85°	4.8
87.5°	2.1
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)