

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: P211235

Luminaire Tested: **LSR4B15D010BZ EC4B10209030 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211235
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 EC4B10209030 4LBWMW1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH 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: 1115.5 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

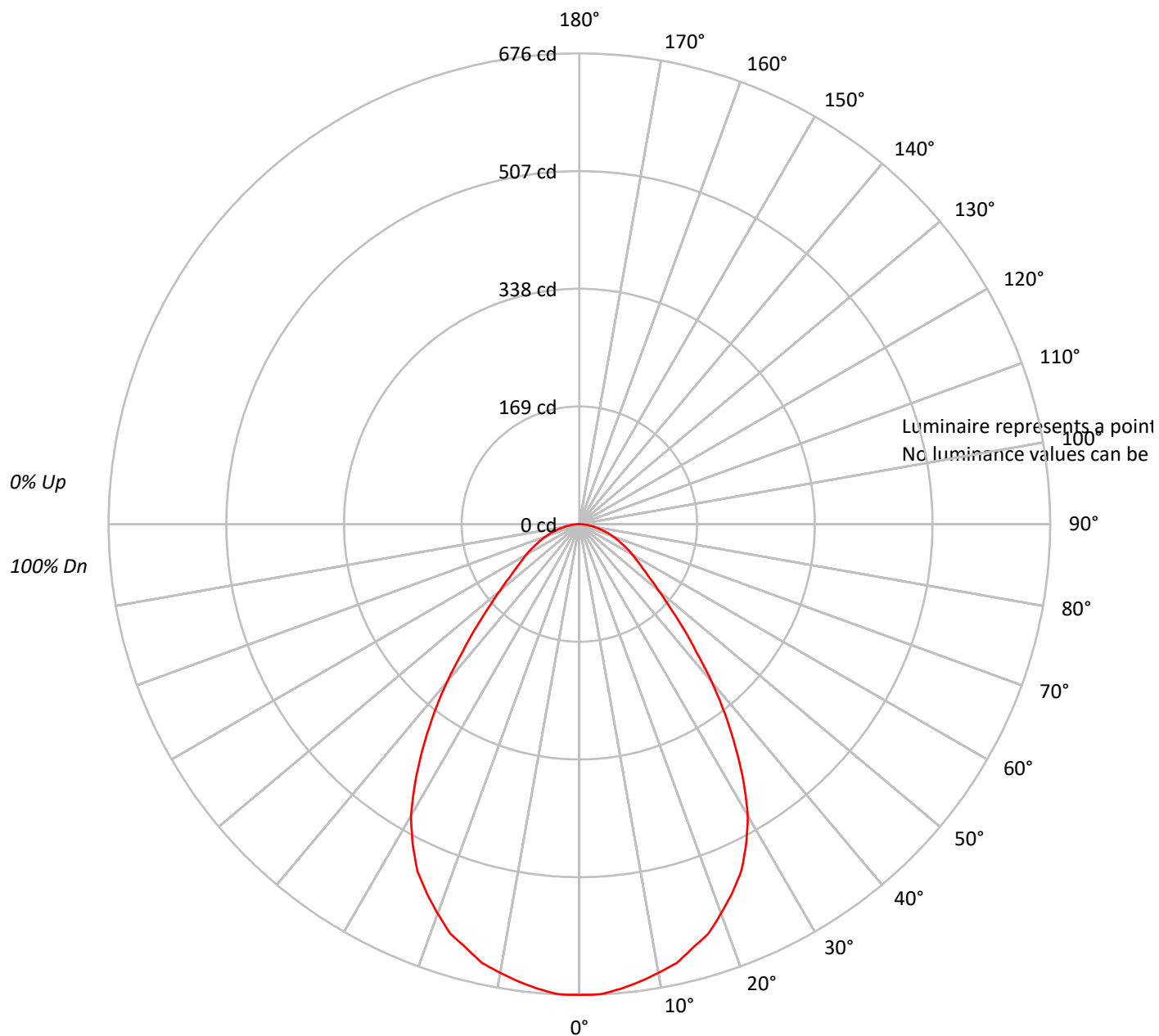
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211235

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P211235

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBWMW1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	94	89	85	91	87	83		88	84	81		85
3	96	87	80	75	93	85	79	74	83	77	73		80	76	72		78
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		60
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	52	45	40	51	44	40		50	44	40		49
10	61	49	42	37	59	48	41	37	47	41	37		46	41	37		46

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211235

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	5.7
10°-20°	177.5	15.9
20°-30°	250.8	22.5
30°-40°	243.0	21.8
40°-50°	163.9	14.7
50°-60°	101.8	9.1
60°-70°	68.0	6.1
70°-80°	37.2	3.3
80°-90°	9.9	0.9
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°	491.8	44.1
0°-40°	734.8	65.9
0°-60°	1000.5	89.7
0°-90°	1115.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	676	
5°	670	63
15°	630	177
25°	550	251
35°	391	243
45°	210	164
55°	112	102
65°	68	68
75°	35	37
85°	9	10
90°	0	



TEST NUMBER: P211235

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBWMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	676.0
2.5°	676.0
5°	670.2
7.5°	663.0
10°	654.3
12.5°	645.6
15°	629.7
17.5°	616.6
20°	594.9
22.5°	573.2
25°	550.0
27.5°	518.2
30°	483.5
32.5°	438.6
35°	390.8
37.5°	343.1
40°	295.3
42.5°	247.5
45°	209.9
47.5°	175.1
50°	149.1
52.5°	127.4
55°	111.5
57.5°	98.4
60°	88.3
62.5°	78.2
65°	68.0
67.5°	59.3
70°	50.7
72.5°	43.4
75°	34.7
77.5°	27.5
80°	20.3
82.5°	14.5
85°	8.7
87.5°	2.9
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)