

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: P211148

Luminaire Tested: **LSR4B15D010BZ EC4B10209027 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211148
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 EC4B10209027 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: 1072.8 lumens
Efficiency: N/A
Efficacy: 75.0 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

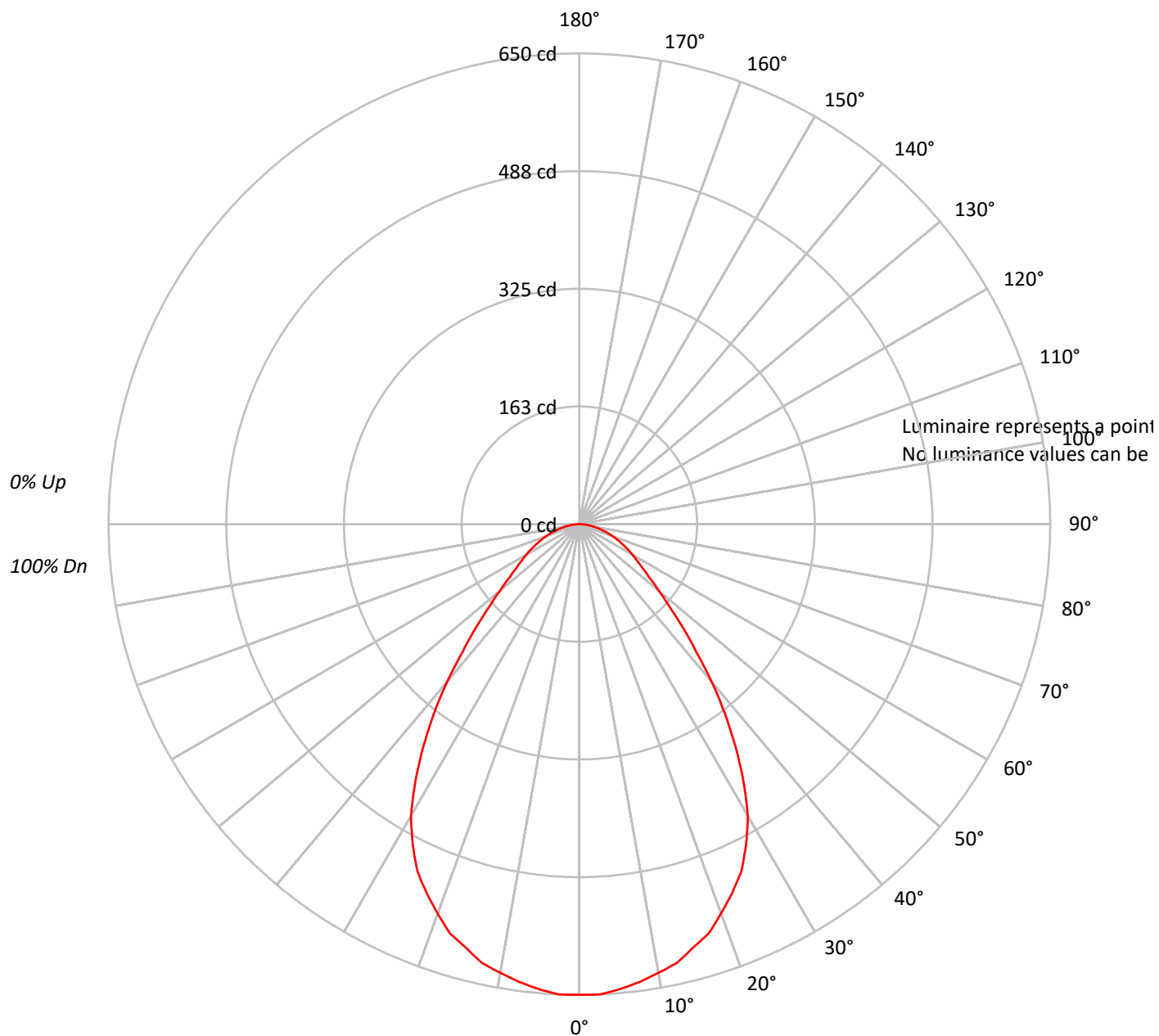
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211148

CATALOG NUMBER: LSR4B15D010BZ EC4B10209027 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P211148

CATALOG NUMBER: LSR4B15D010BZ EC4B10209027 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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	91	86		101	94	89	85		91	87	83		88	84	81		85	82	80
3	96	87	80	75		93	85	79	74		83	77	73		80	76	72		78	74	71
4	89	79	72	66		87	78	71	66		75	69	65		73	68	64		71	67	63
5	83	72	64	59		81	71	64	58		69	63	58		67	62	57		65	61	57
6	78	66	58	53		76	65	58	53		64	57	52		62	56	52		60	55	51
7	73	61	53	48		71	60	53	48		59	52	47		57	51	47		56	51	47
8	68	56	49	44		67	56	49	44		54	48	43		53	47	43		52	47	43
9	64	52	45	40		63	52	45	40		51	44	40		50	44	40		49	43	39
10	61	49	42	37		59	48	41	37		47	41	37		46	41	37		46	40	36

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211148

CATALOG NUMBER: LSR4B15D010BZ EC4B10209027 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	5.7
10°-20°	170.7	15.9
20°-30°	241.2	22.5
30°-40°	233.7	21.8
40°-50°	157.6	14.7
50°-60°	97.9	9.1
60°-70°	65.4	6.1
70°-80°	35.8	3.3
80°-90°	9.5	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°	472.9	44.1
0°-40°	706.6	65.9
0°-60°	962.1	89.7
0°-90°	1072.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1072.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	650	
5°	644	61
15°	606	171
25°	529	241
35°	376	234
45°	202	158
55°	107	98
65°	65	65
75°	33	36
85°	8	9
90°	0	



TEST NUMBER: P211148

CATALOG NUMBER: LSR4B15D010BZ EC4B10209027 4LBWMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	650.1
2.5°	650.1
5°	644.5
7.5°	637.6
10°	629.2
12.5°	620.8
15°	605.5
17.5°	593.0
20°	572.1
22.5°	551.2
25°	529.0
27.5°	498.3
30°	464.9
32.5°	421.8
35°	375.9
37.5°	329.9
40°	284.0
42.5°	238.0
45°	201.8
47.5°	168.4
50°	143.4
52.5°	122.5
55°	107.2
57.5°	94.7
60°	84.9
62.5°	75.2
65°	65.4
67.5°	57.1
70°	48.7
72.5°	41.8
75°	33.4
77.5°	26.4
80°	19.5
82.5°	13.9
85°	8.4
87.5°	2.8
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)