

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: P211213

Luminaire Tested: **LSR4B15D010BZ EC4B10209030 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211213
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 4LBMH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 960.4 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

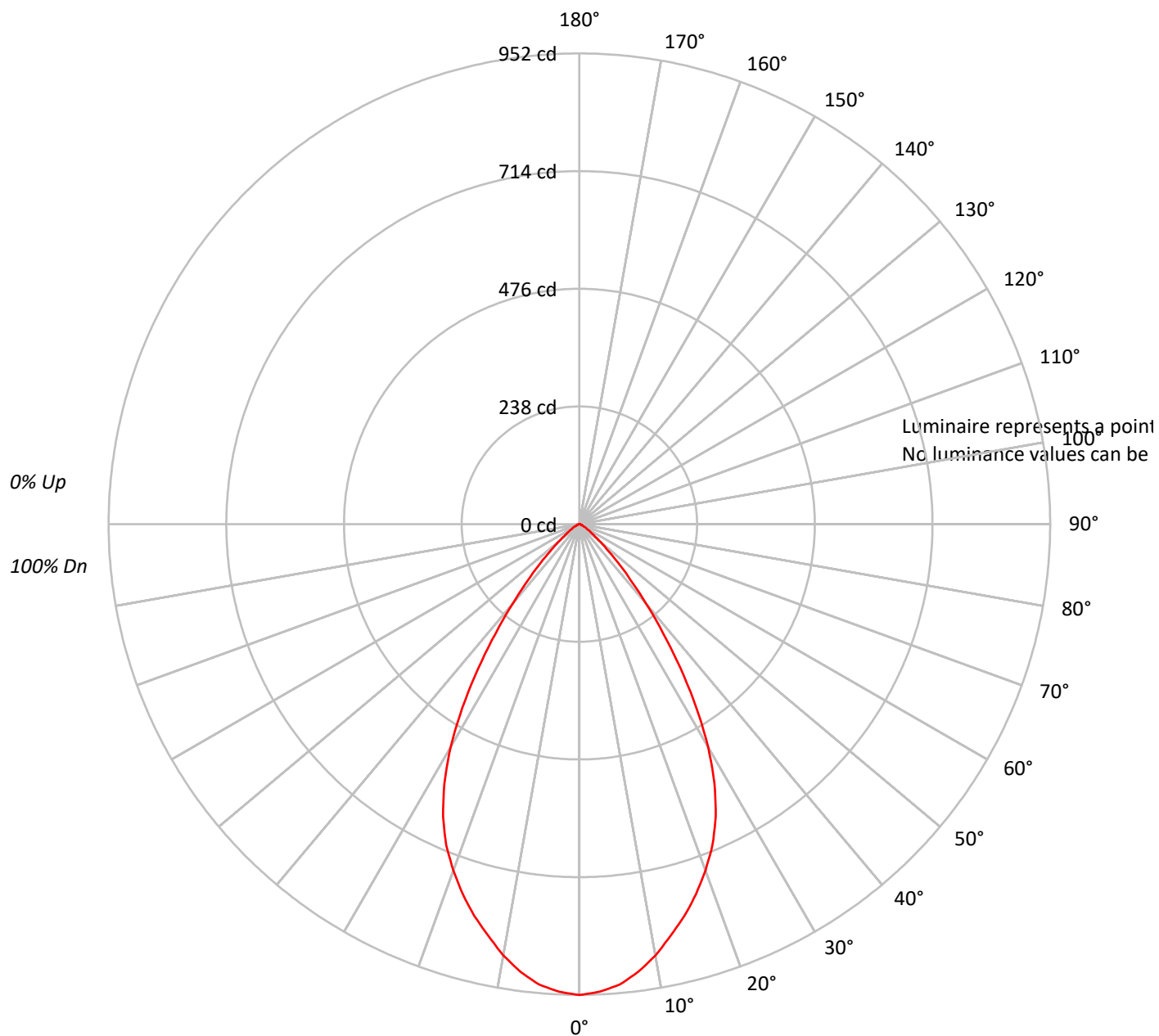
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211213

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBMH1

Luminous Intensity Polar Plot





TEST NUMBER: P211213

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBMH1

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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211213

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBMH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	9.1
10°-20°	229.9	23.9
20°-30°	295.5	30.8
30°-40°	222.3	23.1
40°-50°	89.3	9.3
50°-60°	25.4	2.6
60°-70°	8.0	0.8
70°-80°	2.2	0.2
80°-90°	0.2	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°	613.0	63.8
0°-40°	835.3	87.0
0°-60°	950.0	98.9
0°-90°	960.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	952	
5°	935	88
15°	820	230
25°	652	295
35°	357	222
45°	110	89
55°	26	25
65°	7	8
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P211213

CATALOG NUMBER: LSR4B15D010BZ EC4B10209030 4LBMH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	952.4
2.5°	946.6
5°	935.0
7.5°	913.3
10°	885.7
12.5°	852.4
15°	820.5
17.5°	784.3
20°	745.1
22.5°	703.1
25°	652.3
27.5°	591.5
30°	520.4
32.5°	440.7
35°	356.6
37.5°	278.3
40°	208.8
42.5°	153.7
45°	110.2
47.5°	75.4
50°	52.2
52.5°	36.2
55°	26.1
57.5°	18.8
60°	14.5
62.5°	10.1
65°	7.2
67.5°	5.8
70°	4.3
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)