

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: P211099

Luminaire Tested: **LSR4B15D010BZ EC4B10208027 4LBMMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211099
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 EC4B10208027 4LBMMW1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM 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: 1119.6 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

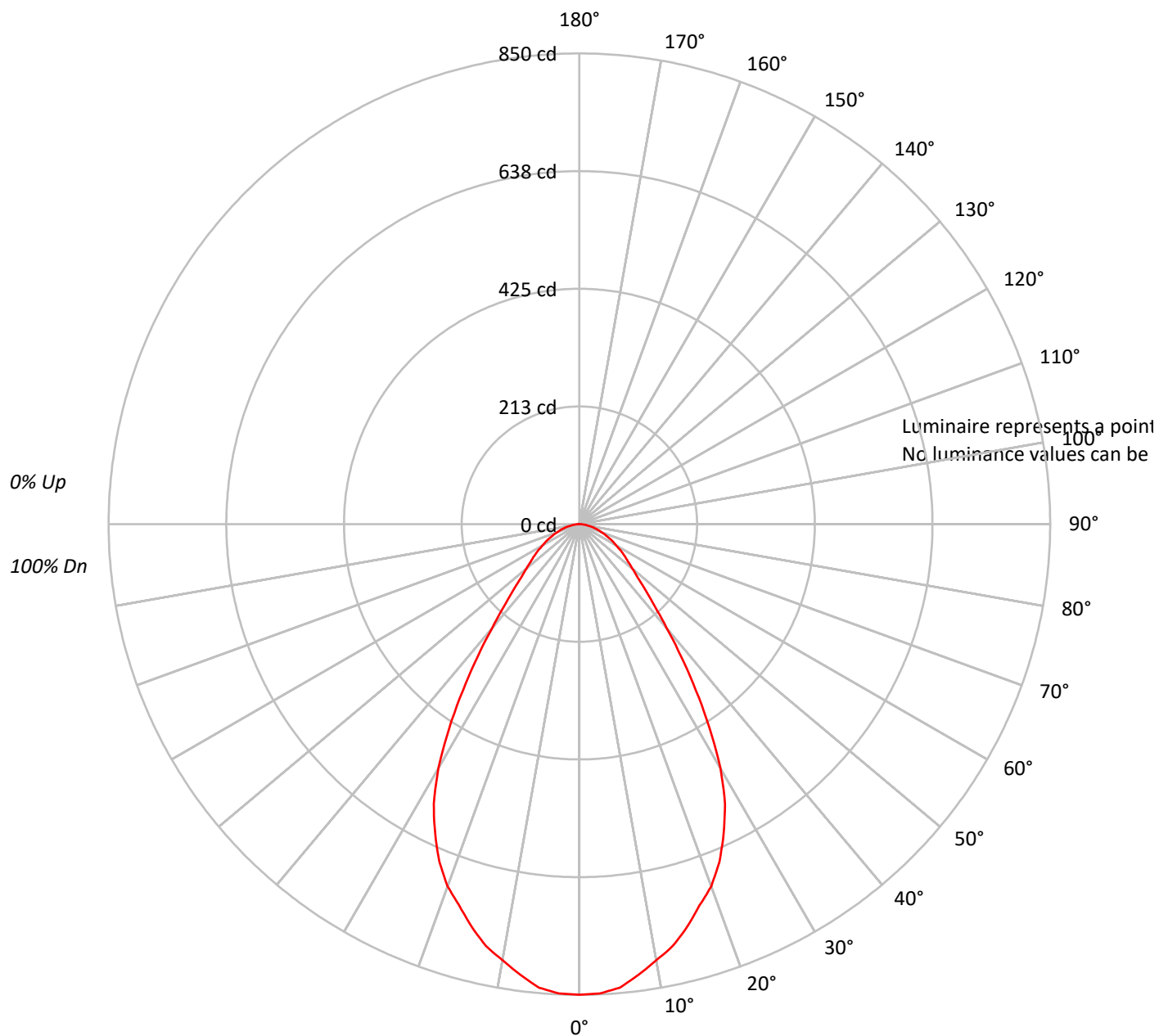
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94
2	104	98	92	88	102	96	91	87	93	89	85		89	86	83		87
3	97	89	83	77	95	87	82	77	85	80	76		82	78	74		80
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	61		68
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59
8	71	59	52	47	69	59	52	47	58	51	47		56	51	47		55
9	67	55	48	44	66	55	48	44	54	48	44		53	47	43		52
10	63	52	45	41	62	51	45	41	51	45	40		50	44	40		49

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	7.0
10°-20°	211.2	18.9
20°-30°	280.8	25.1
30°-40°	229.7	20.5
40°-50°	133.8	11.9
50°-60°	88.7	7.9
60°-70°	58.3	5.2
70°-80°	30.8	2.8
80°-90°	7.5	0.7
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°	570.8	51.0
0°-40°	800.5	71.5
0°-60°	1023.0	91.4
0°-90°	1119.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1119.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	850	
5°	840	79
15°	753	211
25°	616	281
35°	367	230
45°	169	134
55°	99	89
65°	58	58
75°	29	31
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	849.9
2.5°	848.3
5°	840.2
7.5°	820.7
10°	799.7
12.5°	780.2
15°	752.6
17.5°	721.8
20°	695.9
22.5°	660.2
25°	616.4
27.5°	569.3
30°	509.3
32.5°	437.9
35°	366.6
37.5°	301.7
40°	244.9
42.5°	201.1
45°	168.7
47.5°	142.7
50°	124.9
52.5°	110.3
55°	98.9
57.5°	87.6
60°	76.2
62.5°	68.1
65°	58.4
67.5°	50.3
70°	42.2
72.5°	35.7
75°	29.2
77.5°	22.7
80°	16.2
82.5°	11.4
85°	6.5
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)