

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: P211010

Luminaire Tested: **LSR4B10D010BZ EC4B10208050 4LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211010
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: LSR4B10D010BZ EC4B10208050 4LBMH1
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 836.4 lumens
Efficiency: N/A
Efficacy: 84.5 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

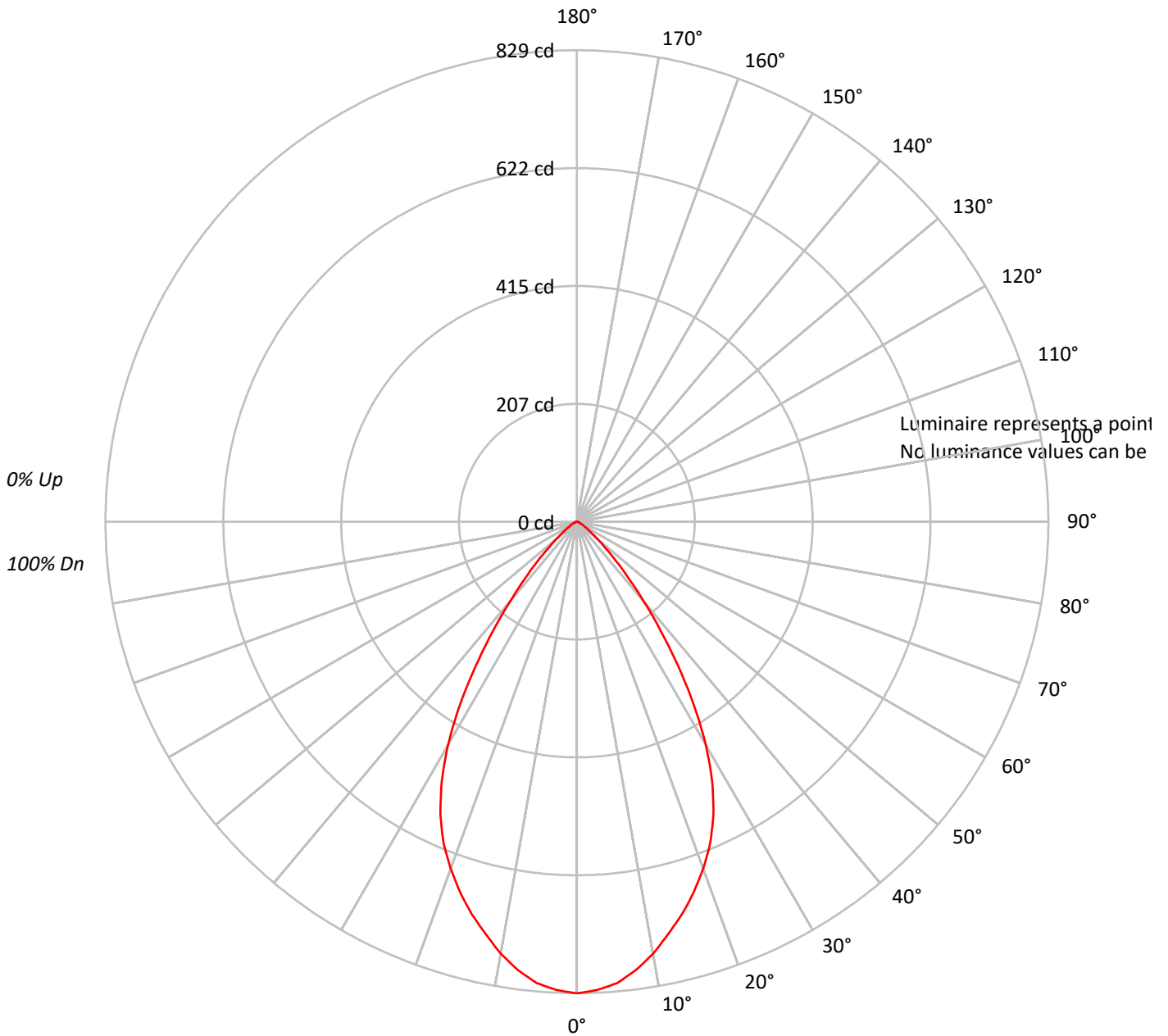
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211010

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBMH1

Luminous Intensity Polar Plot





TEST NUMBER: P211010

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBMH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211010

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBMH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	9.1
10°-20°	200.2	23.9
20°-30°	257.3	30.8
30°-40°	193.6	23.1
40°-50°	77.7	9.3
50°-60°	22.1	2.6
60°-70°	7.0	0.8
70°-80°	2.0	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°	533.9	63.8
0°-40°	727.5	87.0
0°-60°	827.3	98.9
0°-90°	836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	829	
5°	814	76
15°	714	200
25°	568	257
35°	311	194
45°	96	78
55°	23	22
65°	6	7
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P211010

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBMH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	829.4
2.5°	824.4
5°	814.3
7.5°	795.3
10°	771.3
12.5°	742.3
15°	714.5
17.5°	683.0
20°	648.9
22.5°	612.3
25°	568.1
27.5°	515.1
30°	453.2
32.5°	383.8
35°	310.6
37.5°	242.4
40°	181.8
42.5°	133.8
45°	95.9
47.5°	65.6
50°	45.4
52.5°	31.6
55°	22.7
57.5°	16.4
60°	12.6
62.5°	8.8
65°	6.3
67.5°	5.0
70°	3.8
72.5°	2.5
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)