

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: P211016

Luminaire Tested: **LSR4B10D010BZ EC4B10208050 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211016
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 4LBNH1
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 695.2 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

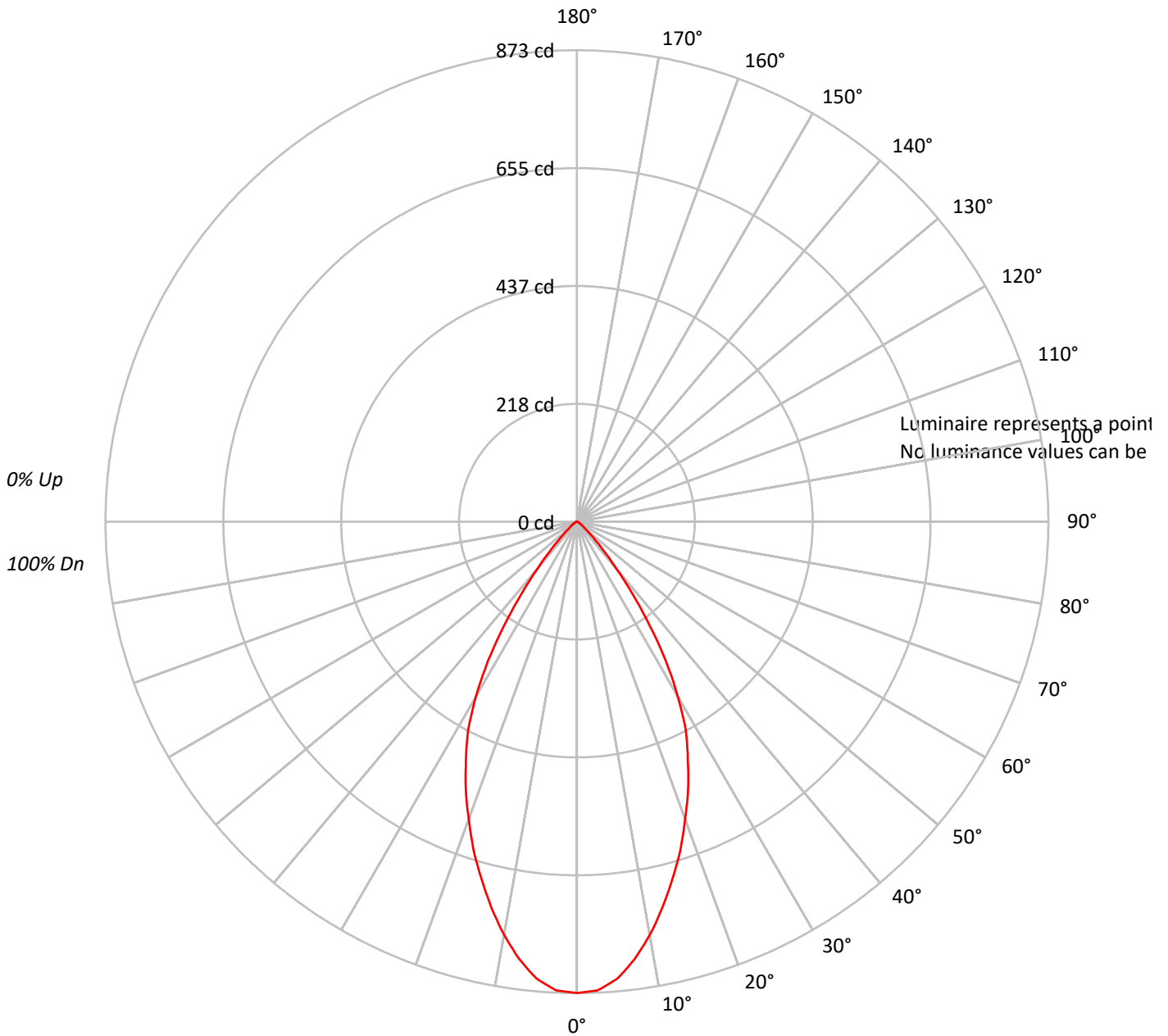
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211016

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNH1

Luminous Intensity Polar Plot





TEST NUMBER: P211016

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNH1

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93		
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75		
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70		
6	88	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54		
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211016

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	11.3
10°-20°	191.0	27.5
20°-30°	221.8	31.9
30°-40°	146.9	21.1
40°-50°	41.2	5.9
50°-60°	10.4	1.5
60°-70°	3.9	0.6
70°-80°	1.4	0.2
80°-90°	0.0	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°	491.5	70.7
0°-40°	638.4	91.8
0°-60°	690.0	99.2
0°-90°	695.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	873	
5°	850	79
15°	684	191
25°	486	222
35°	236	147
45°	48	41
55°	11	10
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P211016

CATALOG NUMBER: LSR4B10D010BZ EC4B10208050 4LBNH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	872.8
2.5°	869.0
5°	850.1
7.5°	817.4
10°	777.1
12.5°	731.7
15°	683.9
17.5°	637.3
20°	585.6
22.5°	537.8
25°	486.1
27.5°	437.0
30°	374.1
32.5°	307.3
35°	235.5
37.5°	168.8
40°	114.6
42.5°	74.3
45°	47.9
47.5°	29.0
50°	18.9
52.5°	13.9
55°	11.3
57.5°	8.8
60°	6.3
62.5°	5.0
65°	3.8
67.5°	2.5
70°	2.5
72.5°	1.3
75°	1.3
77.5°	1.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)