

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: P210920

Luminaire Tested: **LSR4B10D010BZ EC4B10209035 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210920
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 EC4B10209035 4LBCSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 971.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

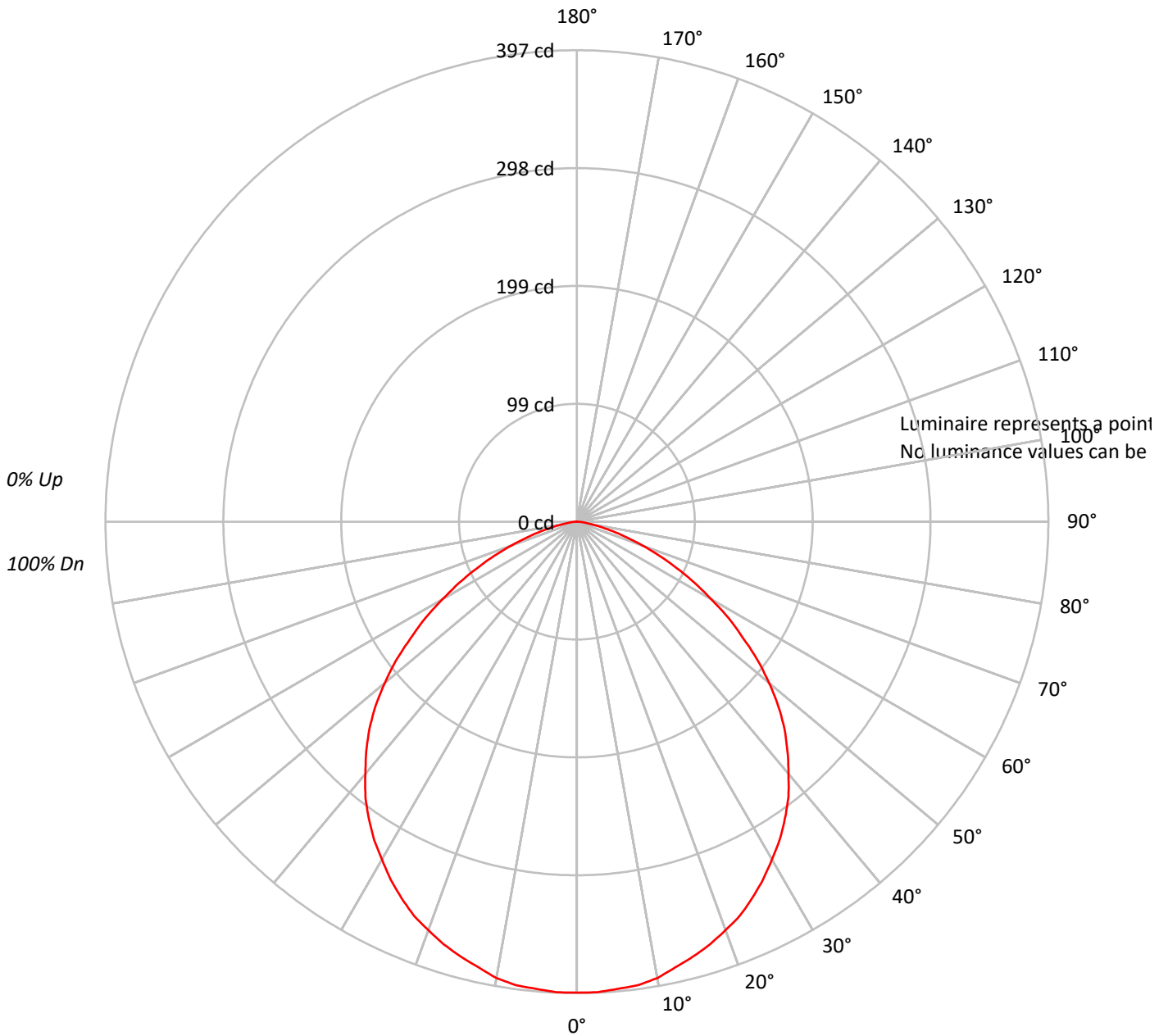
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210920

CATALOG NUMBER: LSR4B10D010BZ EC4B10209035 4LBCSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P210920

CATALOG NUMBER: LSR4B10D010BZ EC4B10209035 4LBCSMW1

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210920

CATALOG NUMBER: LSR4B10D010BZ EC4B10209035 4LBCSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.9
10°-20°	107.0	11.0
20°-30°	161.0	16.6
30°-40°	190.7	19.6
40°-50°	189.8	19.5
50°-60°	153.0	15.8
60°-70°	92.6	9.5
70°-80°	34.4	3.5
80°-90°	5.1	0.5
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°	305.5	31.5
0°-40°	496.3	51.1
0°-60°	839.1	86.4
0°-90°	971.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	397	
5°	395	38
15°	379	107
25°	350	161
35°	305	191
45°	247	190
55°	171	153
65°	93	93
75°	31	34
85°	4	5
90°	0	



TEST NUMBER: P210920

CATALOG NUMBER: LSR4B10D010BZ EC4B10209035 4LBCSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	396.6
2.5°	396.6
5°	394.9
7.5°	393.7
10°	390.2
12.5°	384.3
15°	379.0
17.5°	373.1
20°	366.0
22.5°	359.0
25°	349.6
27.5°	339.6
30°	328.4
32.5°	317.8
35°	305.4
37.5°	292.5
40°	277.2
42.5°	262.5
45°	247.2
47.5°	230.1
50°	211.3
52.5°	191.8
55°	170.7
57.5°	151.8
60°	130.6
62.5°	111.8
65°	93.0
67.5°	75.3
70°	58.8
72.5°	44.1
75°	31.2
77.5°	20.0
80°	11.8
82.5°	7.1
85°	4.1
87.5°	1.8
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)