

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: P210817

Luminaire Tested: **LSR4B10D010BZ EC4B10208030 4LBPSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210817
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 EC4B10208030 4LBPSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH PLASTIC 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: 1144.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.34
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

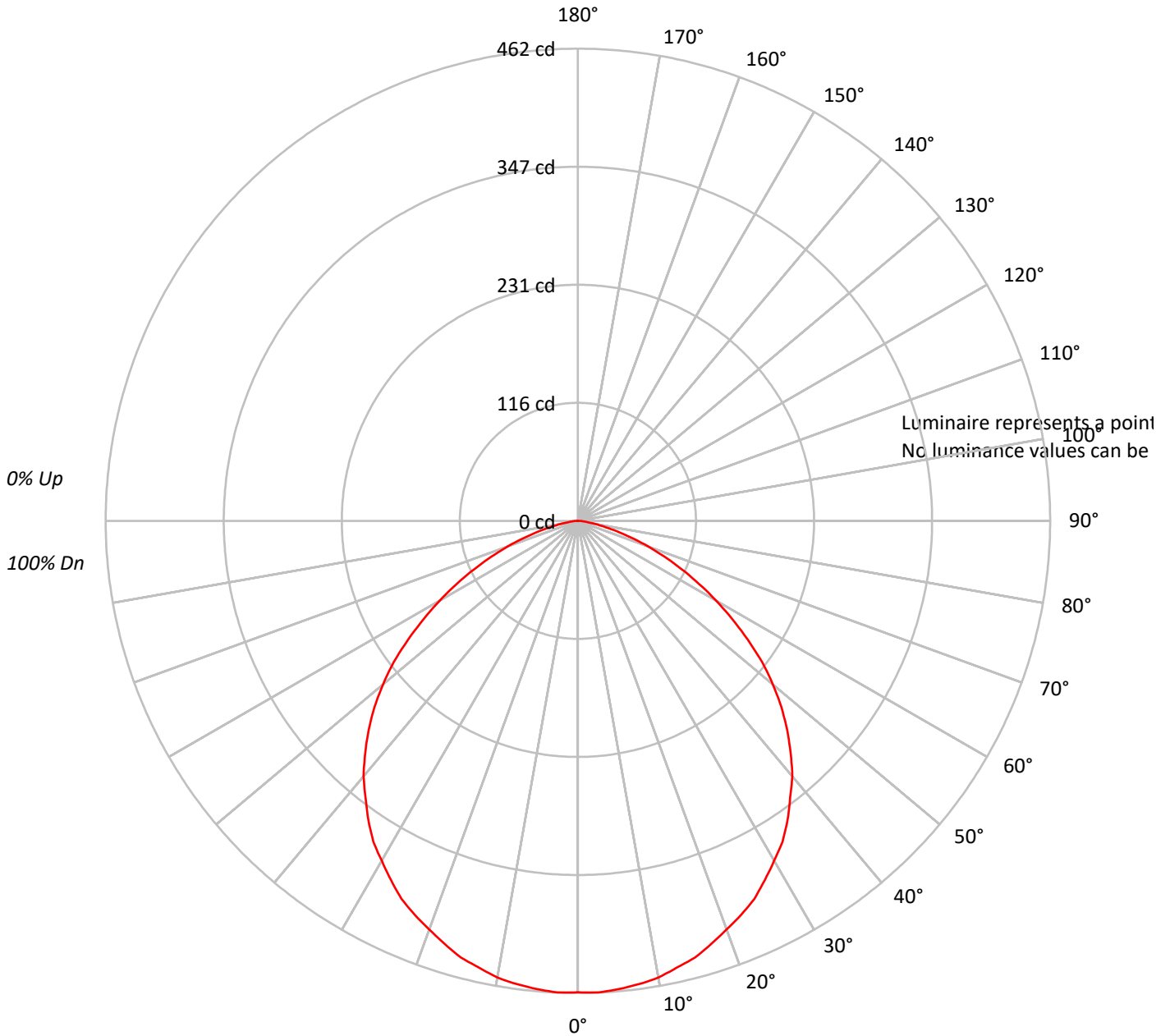
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210817

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBPSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P210817

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBPSMW1

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54		
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47		
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37		
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30		
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210817

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBPSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	3.8
10°-20°	124.6	10.9
20°-30°	187.6	16.4
30°-40°	223.3	19.5
40°-50°	222.8	19.5
50°-60°	181.2	15.8
60°-70°	111.5	9.7
70°-80°	43.2	3.8
80°-90°	6.9	0.6
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°	355.9	31.1
0°-40°	579.2	50.6
0°-60°	983.2	85.9
0°-90°	1144.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1144.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	461	
5°	460	44
15°	442	125
25°	408	188
35°	358	223
45°	290	223
55°	203	181
65°	112	111
75°	39	43
85°	5	7
90°	0	



TEST NUMBER: P210817

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBPSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	461.3
2.5°	461.9
5°	459.9
7.5°	457.2
10°	453.8
12.5°	447.7
15°	442.3
17.5°	434.1
20°	425.3
22.5°	417.2
25°	408.3
27.5°	396.1
30°	383.9
32.5°	372.4
35°	357.5
37.5°	341.2
40°	326.3
42.5°	308.0
45°	289.6
47.5°	270.0
50°	248.9
52.5°	227.2
55°	202.8
57.5°	179.1
60°	156.0
62.5°	133.6
65°	111.9
67.5°	91.6
70°	72.6
72.5°	54.9
75°	39.3
77.5°	25.8
80°	15.6
82.5°	9.5
85°	5.4
87.5°	2.7
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)