

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: P210822

Luminaire Tested: **LSR4B10D010BZ EC4B10208030 4LBSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210822
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 4LBSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH 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: 1099.7 lumens
Efficiency: N/A
Efficacy: 111.1 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

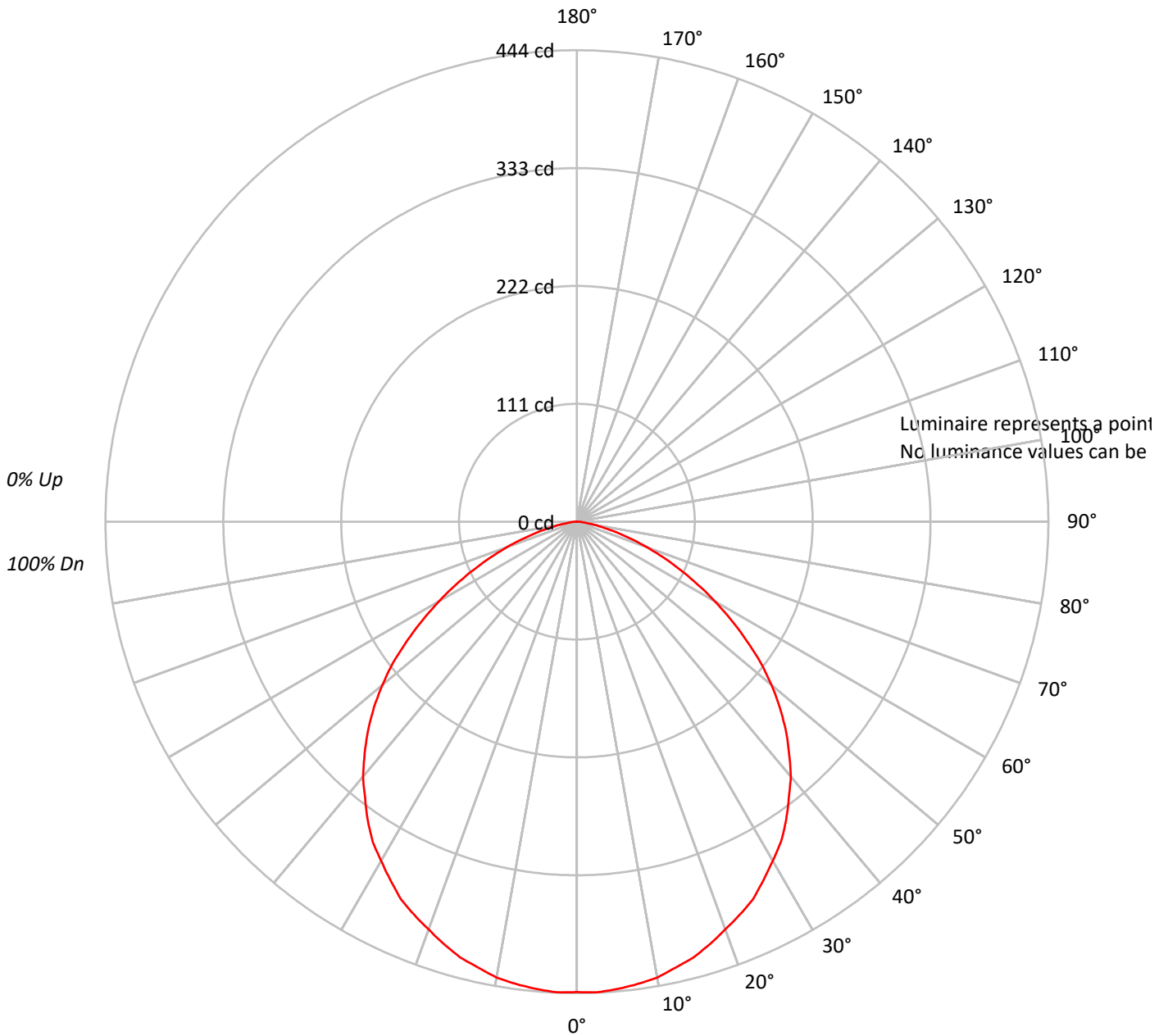
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210822

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P210822

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBSMW1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
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	65	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: P210822

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	3.8
10°-20°	119.7	10.9
20°-30°	180.2	16.4
30°-40°	214.5	19.5
40°-50°	214.0	19.5
50°-60°	174.1	15.8
60°-70°	107.1	9.7
70°-80°	41.5	3.8
80°-90°	6.6	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°	341.9	31.1
0°-40°	556.3	50.6
0°-60°	944.5	85.9
0°-90°	1099.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	443	
5°	442	42
15°	425	120
25°	392	180
35°	343	214
45°	278	214
55°	195	174
65°	108	107
75°	38	42
85°	5	7
90°	0	



TEST NUMBER: P210822

CATALOG NUMBER: LSR4B10D010BZ EC4B10208030 4LBSMW1

CANDELA DISTRIBUTION (FULL):

0°	
0°	443.1
2.5°	443.7
5°	441.8
7.5°	439.2
10°	435.9
12.5°	430.1
15°	424.8
17.5°	417.0
20°	408.6
22.5°	400.7
25°	392.3
27.5°	380.5
30°	368.8
32.5°	357.7
35°	343.4
37.5°	327.8
40°	313.4
42.5°	295.8
45°	278.2
47.5°	259.3
50°	239.1
52.5°	218.3
55°	194.8
57.5°	172.0
60°	149.9
62.5°	128.4
65°	107.5
67.5°	88.0
70°	69.7
72.5°	52.8
75°	37.8
77.5°	24.8
80°	15.0
82.5°	9.1
85°	5.2
87.5°	2.6
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)