

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: P210713

Luminaire Tested: **LSR4B10D010BZ EC4B10209024 4LBWMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210713
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 EC4B10209024 4LBWMW1
Description: PORTFOLIO 4 INCH CYLINDER
WIDE 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: 677.4 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

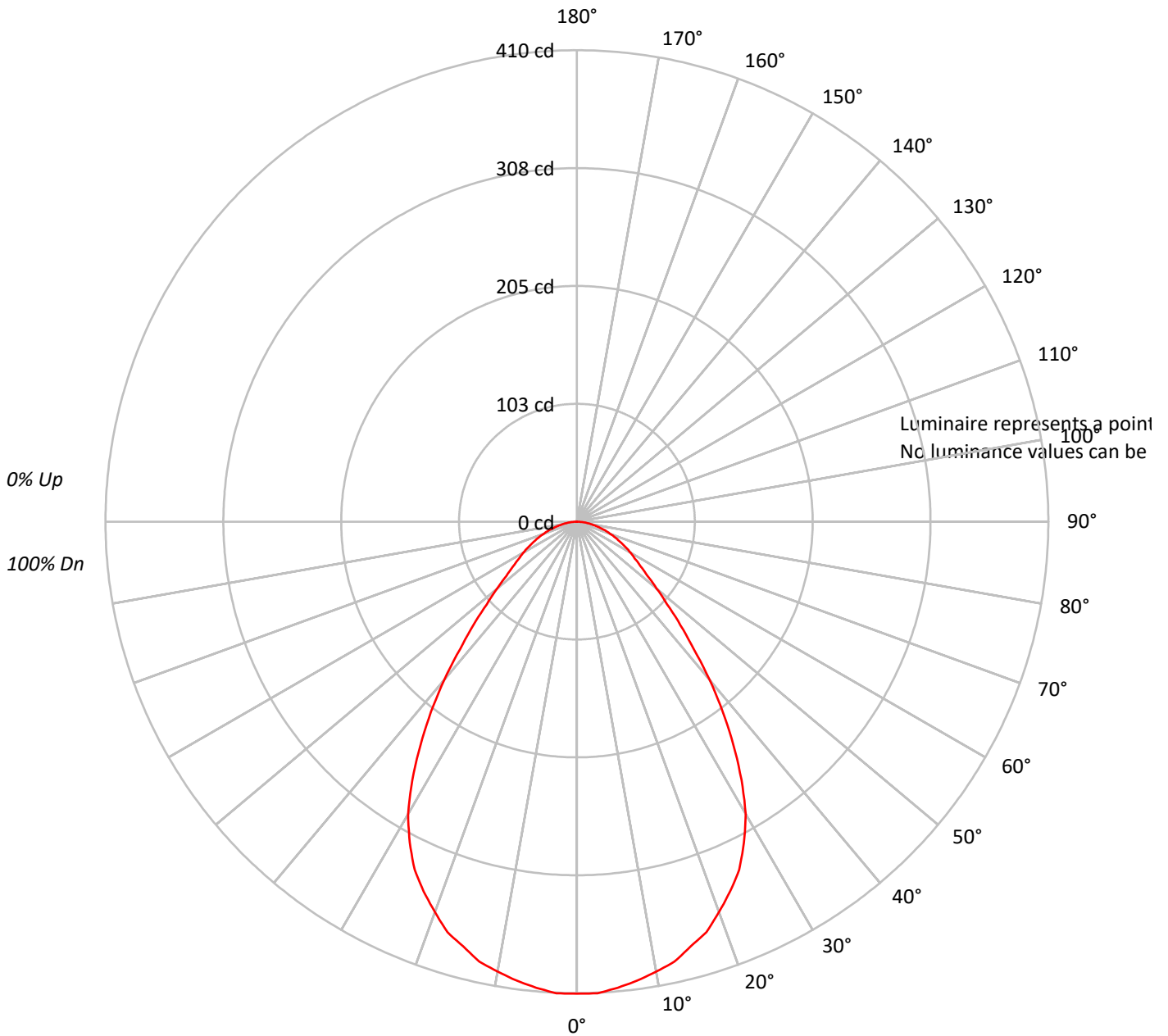
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210713

CATALOG NUMBER: LSR4B10D010BZ EC4B10209024 4LBWMW1

Luminous Intensity Polar Plot





TEST NUMBER: P210713

CATALOG NUMBER: LSR4B10D010BZ EC4B10209024 4LBWMW1

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61																			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55																			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50																			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45																			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38																			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210713

CATALOG NUMBER: LSR4B10D010BZ EC4B10209024 4LBWMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	5.7
10°-20°	107.8	15.9
20°-30°	152.3	22.5
30°-40°	147.5	21.8
40°-50°	99.5	14.7
50°-60°	61.8	9.1
60°-70°	41.3	6.1
70°-80°	22.6	3.3
80°-90°	6.0	0.9
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°	298.6	44.1
0°-40°	446.2	65.9
0°-60°	607.5	89.7
0°-90°	677.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	410	
5°	407	39
15°	382	108
25°	334	152
35°	237	148
45°	127	100
55°	68	62
65°	41	41
75°	21	23
85°	5	6
90°	0	



TEST NUMBER: P210713

CATALOG NUMBER: LSR4B10D010BZ EC4B10209024 4LBWMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	410.5
2.5°	410.5
5°	406.9
7.5°	402.5
10°	397.3
12.5°	392.0
15°	382.3
17.5°	374.4
20°	361.2
22.5°	348.1
25°	334.0
27.5°	314.7
30°	293.6
32.5°	266.3
35°	237.3
37.5°	208.3
40°	179.3
42.5°	150.3
45°	127.4
47.5°	106.3
50°	90.5
52.5°	77.3
55°	67.7
57.5°	59.8
60°	53.6
62.5°	47.5
65°	41.3
67.5°	36.0
70°	30.8
72.5°	26.4
75°	21.1
77.5°	16.7
80°	12.3
82.5°	8.8
85°	5.3
87.5°	1.8
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)