

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: P211877

Luminaire Tested: **LSR4B30D010BZ EC4B30509027 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211877
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: LSR4B30D010BZ EC4B30509027 4LBCSMW1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W
DL3-29.67W DLE-29.73W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2501.1 lumens
Efficiency: N/A
Efficacy: 89.3 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

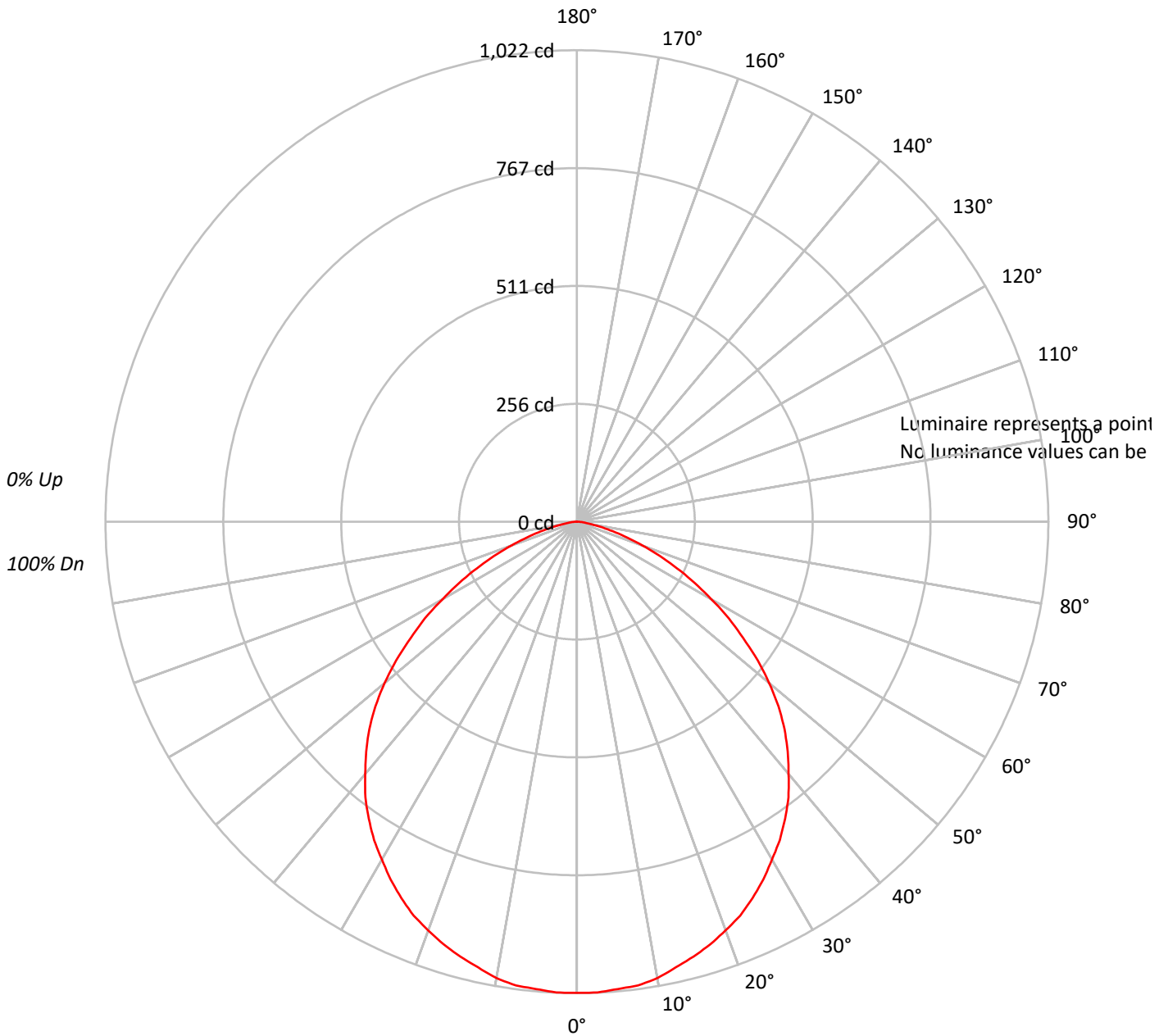
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211877

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBCSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P211877

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBCSMW1

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211877

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBCSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.9
10°-20°	275.5	11.0
20°-30°	414.5	16.6
30°-40°	491.2	19.6
40°-50°	488.9	19.5
50°-60°	394.1	15.8
60°-70°	238.4	9.5
70°-80°	88.5	3.5
80°-90°	13.2	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°	786.8	31.5
0°-40°	1278.1	51.1
0°-60°	2161.0	86.4
0°-90°	2501.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1022	
5°	1017	97
15°	976	276
25°	900	414
35°	787	491
45°	637	489
55°	440	394
65°	240	238
75°	80	89
85°	11	13
90°	0	



TEST NUMBER: P211877

CATALOG NUMBER: LSR4B30D010BZ EC4B30509027 4LBCSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1021.5
2.5°	1021.5
5°	1017.0
7.5°	1014.0
10°	1004.9
12.5°	989.7
15°	976.1
17.5°	960.9
20°	942.7
22.5°	924.5
25°	900.3
27.5°	874.5
30°	845.7
32.5°	818.4
35°	786.6
37.5°	753.3
40°	713.9
42.5°	676.0
45°	636.6
47.5°	592.6
50°	544.1
52.5°	494.1
55°	439.5
57.5°	391.0
60°	336.5
62.5°	288.0
65°	239.5
67.5°	194.0
70°	151.6
72.5°	113.7
75°	80.3
77.5°	51.5
80°	30.3
82.5°	18.2
85°	10.6
87.5°	4.5
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)