

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: P212369

Luminaire Tested: **LSR4B40D010BZ EC4B30509730 4LBCSMMS1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212369
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: LSR4B40D010BZ EC4B30509730 4LBCSMMS1
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE BLACK TRIM
WATTAGE D010TR-43.02W DE010-42.54W D5LT-42.539W DMX-41.87W DL2-41.57W
DL3-44.71W DLE-39.33W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2690.2 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

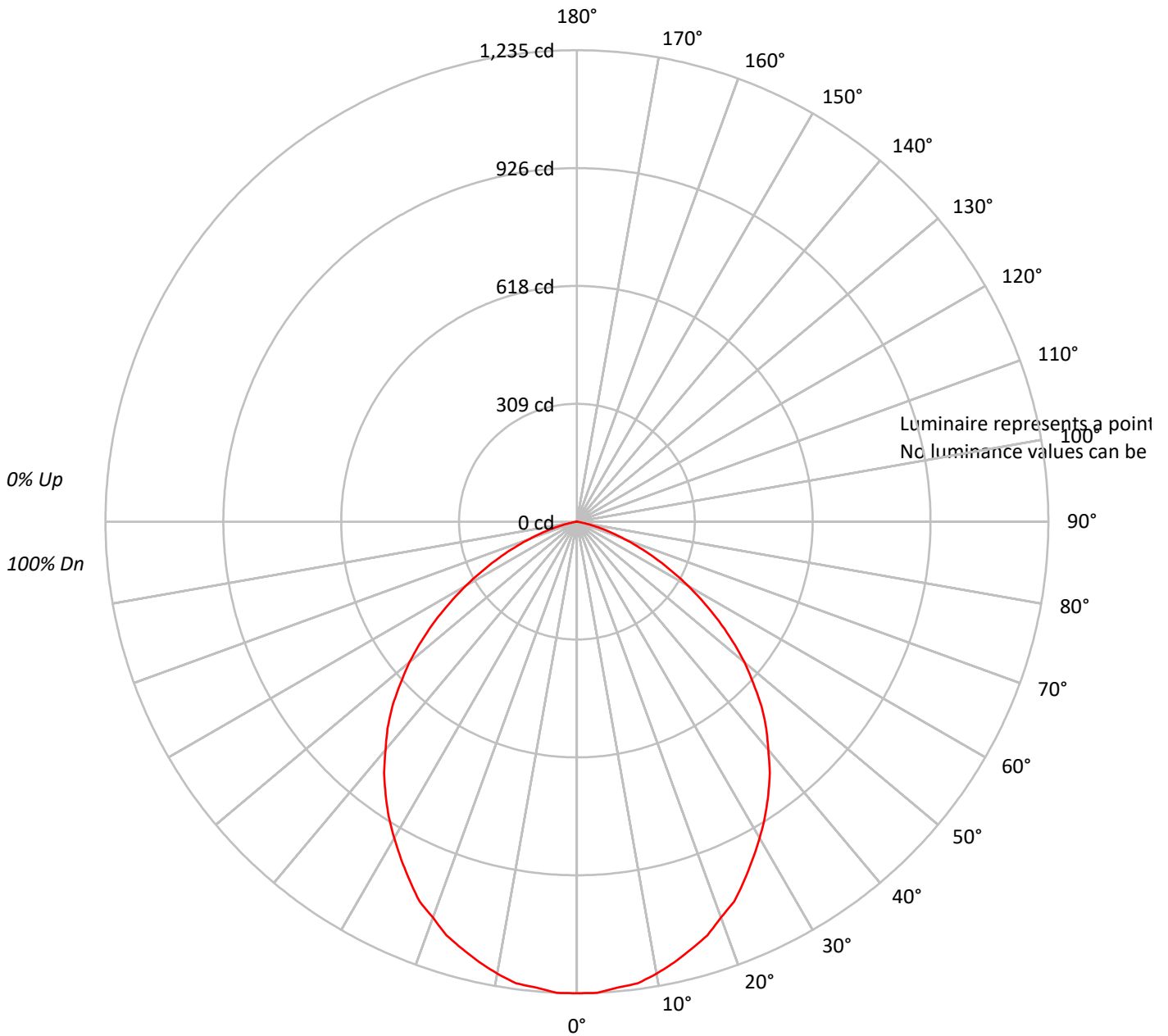
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P212369

CATALOG NUMBER: LSR4B40D010BZ EC4B30509730 4LBCSMMS1

Luminous Intensity Polar Plot





TEST NUMBER: P212369

CATALOG NUMBER: LSR4B40D010BZ EC4B30509730 4LBCSMMS1

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	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88																			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76																			
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65																			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50																			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44																			
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40																			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36																			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32																			
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P212369

CATALOG NUMBER: LSR4B40D010BZ EC4B30509730 4LBCSMMS1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	4.3
10°-20°	326.7	12.1
20°-30°	477.2	17.7
30°-40°	545.8	20.3
40°-50°	524.5	19.5
50°-60°	405.0	15.1
60°-70°	226.1	8.4
70°-80°	65.8	2.4
80°-90°	2.8	0.1
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°	920.3	34.2
0°-40°	1466.0	54.5
0°-60°	2395.5	89.0
0°-90°	2690.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1235	
5°	1225	116
15°	1159	327
25°	1037	477
35°	874	546
45°	684	524
55°	454	405
65°	226	226
75°	57	66
85°	2	3
90°	0	



TEST NUMBER: P212369

CATALOG NUMBER: LSR4B40D010BZ EC4B30509730 4LBCSMMS1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1235.4
2.5°	1235.4
5°	1225.0
7.5°	1219.8
10°	1202.4
12.5°	1181.5
15°	1158.9
17.5°	1136.2
20°	1103.2
22.5°	1077.1
25°	1037.1
27.5°	997.0
30°	957.0
32.5°	917.0
35°	873.5
37.5°	830.0
40°	779.5
42.5°	734.3
45°	683.8
47.5°	626.4
50°	572.5
52.5°	513.3
55°	454.1
57.5°	393.2
60°	335.8
62.5°	278.4
65°	226.2
67.5°	177.5
70°	132.2
72.5°	92.2
75°	57.4
77.5°	29.6
80°	10.4
82.5°	3.5
85°	1.7
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)