

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: P212222

Luminaire Tested: **LSR4B40D010BZ EC4B30509024 4LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212222  
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 EC4B30509024 4LBWWH1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH WHEAT 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: 2562.9 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

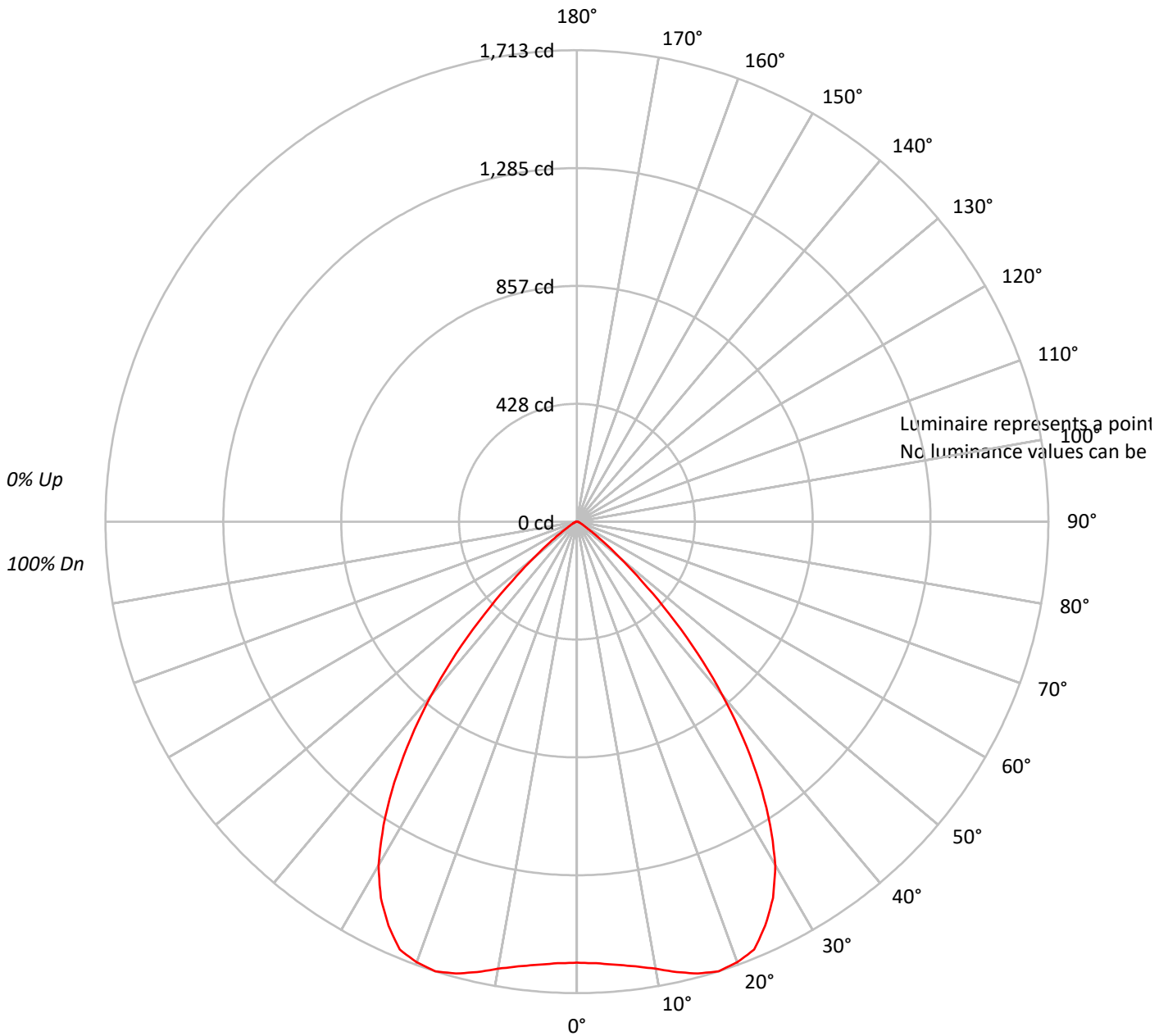
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212222

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBWWH1

### Luminous Intensity Polar Plot





TEST NUMBER: P212222

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBWWH1

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

**AVERAGE LUMINANCE (cd/sqm):**





TEST NUMBER: P212222

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBWWH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.3	6.1
10°-20°	480.3	18.7
20°-30°	738.8	28.8
30°-40°	712.9	27.8
40°-50°	371.7	14.5
50°-60°	78.2	3.1
60°-70°	18.2	0.7
70°-80°	7.1	0.3
80°-90°	0.5	0.0
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°	1374.4	53.6
0°-40°	2087.3	81.4
0°-60°	2537.2	99.0
0°-90°	2562.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1602	
5°	1616	155
15°	1700	480
25°	1619	739
35°	1157	713
45°	473	372
55°	70	78
65°	17	18
75°	7	7
85°	0	0
90°	0	



TEST NUMBER: P212222

CATALOG NUMBER: LSR4B40D010BZ EC4B30509024 4LBWWH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1602.4
2.5°	1605.8
5°	1615.8
7.5°	1629.2
10°	1649.4
12.5°	1676.2
15°	1699.6
17.5°	1713.0
20°	1703.0
22.5°	1682.9
25°	1619.2
27.5°	1542.1
30°	1441.5
32.5°	1307.4
35°	1156.6
37.5°	992.3
40°	821.3
42.5°	650.4
45°	472.7
47.5°	318.5
50°	204.5
52.5°	124.0
55°	70.4
57.5°	43.6
60°	30.2
62.5°	23.5
65°	16.8
67.5°	13.4
70°	10.1
72.5°	10.1
75°	6.7
77.5°	3.4
80°	3.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)