

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: P212276

Luminaire Tested: **LSR4B40D010BZ EC4B30509027 4LBWGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212276  
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 EC4B30509027 4LBWGPH1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 2197.2 lumens  
Efficiency: N/A  
Efficacy: 52.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

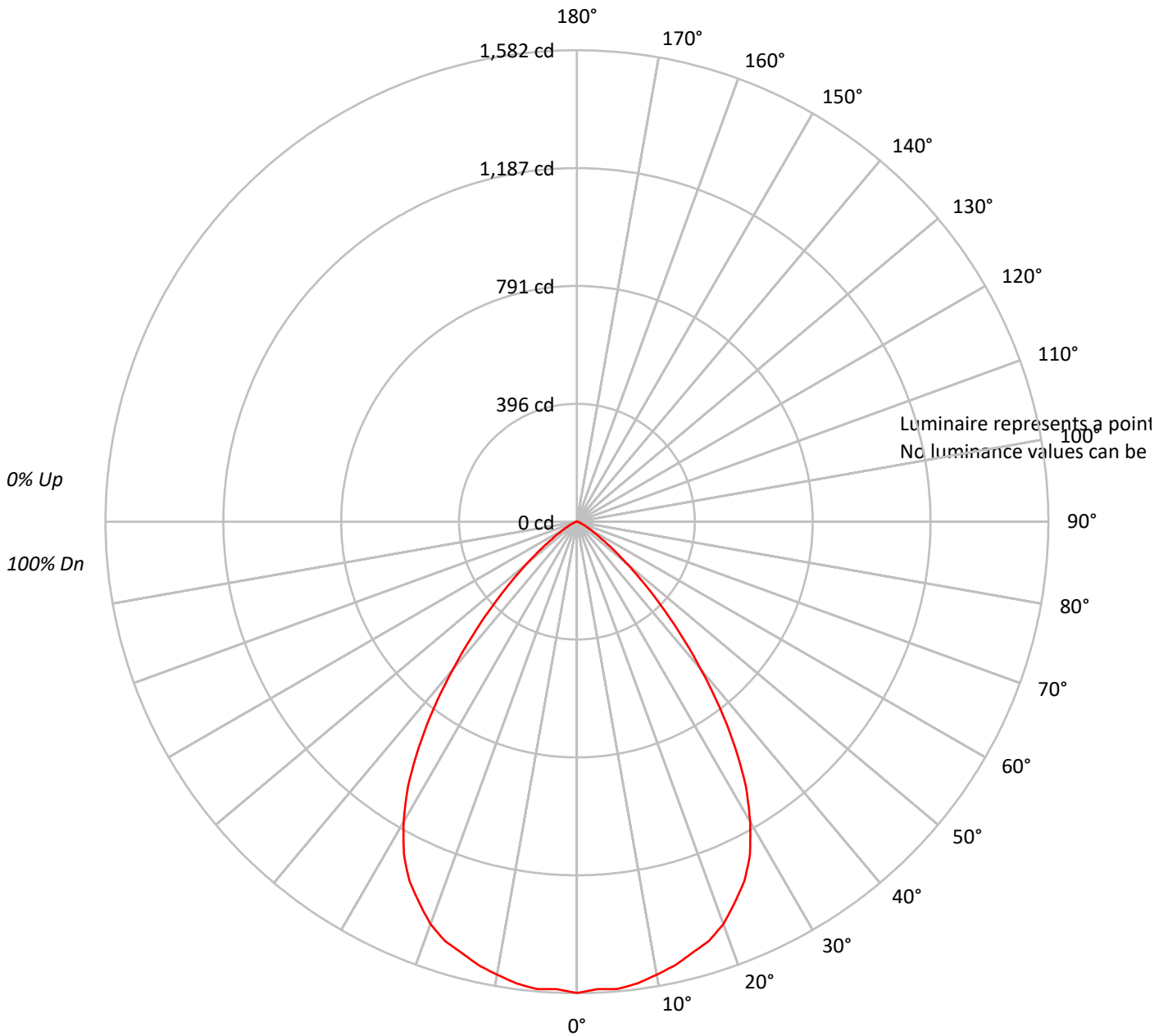
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212276

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P212276

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWGPH1

**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	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	99	100	98	96	96	95	94	92			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76			
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	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: P212276

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWGPH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.2	6.8
10°-20°	422.8	19.2
20°-30°	606.3	27.6
30°-40°	570.8	26.0
40°-50°	315.3	14.3
50°-60°	101.1	4.6
60°-70°	25.3	1.2
70°-80°	6.0	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°	1178.2	53.6
0°-40°	1749.1	79.6
0°-60°	2165.4	98.6
0°-90°	2197.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1582	
5°	1574	149
15°	1498	423
25°	1330	606
35°	926	571
45°	400	315
55°	103	101
65°	23	25
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P212276

CATALOG NUMBER: LSR4B40D010BZ EC4B30509027 4LBWGPH1

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1581.5
2.5°	1570.0
5°	1573.9
7.5°	1562.4
10°	1543.4
12.5°	1524.3
15°	1497.6
17.5°	1474.8
20°	1436.7
22.5°	1383.3
25°	1330.0
27.5°	1257.6
30°	1162.3
32.5°	1055.6
35°	926.0
37.5°	788.8
40°	647.8
42.5°	518.3
45°	400.1
47.5°	301.1
50°	217.2
52.5°	152.4
55°	102.9
57.5°	68.6
60°	49.5
62.5°	34.3
65°	22.9
67.5°	15.2
70°	11.4
72.5°	7.6
75°	3.8
77.5°	3.8
80°	3.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)