

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: P212363

Luminaire Tested: **LSR4B40D010BZ EC4B30509030 4LBWGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212363  
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 EC4B30509030 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: 2284.6 lumens  
Efficiency: N/A  
Efficacy: 54.7 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

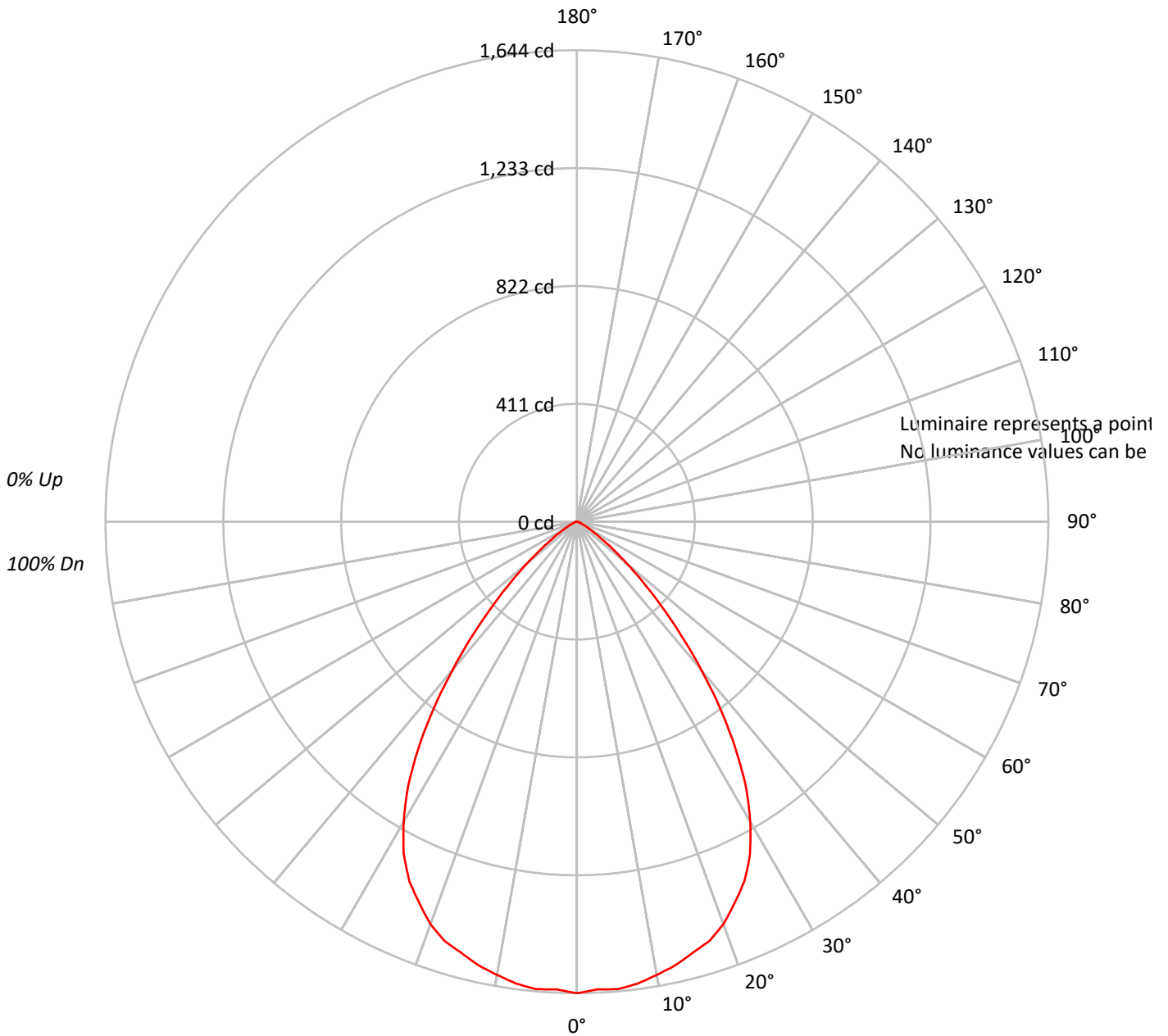
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212363

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBWGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P212363

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBWGPH1

**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	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	50	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: P212363

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBWGPH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.1	6.8
10°-20°	439.6	19.2
20°-30°	630.4	27.6
30°-40°	593.5	26.0
40°-50°	327.8	14.3
50°-60°	105.1	4.6
60°-70°	26.3	1.2
70°-80°	6.3	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°	1225.0	53.6
0°-40°	1818.5	79.6
0°-60°	2251.5	98.6
0°-90°	2284.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1644	
5°	1636	155
15°	1557	440
25°	1383	630
35°	963	594
45°	416	328
55°	107	105
65°	24	26
75°	4	6
85°	0	1
90°	0	



TEST NUMBER: P212363

CATALOG NUMBER: LSR4B40D010BZ EC4B30509030 4LBWGPH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1644.3
2.5°	1632.4
5°	1636.4
7.5°	1624.5
10°	1604.7
12.5°	1584.9
15°	1557.1
17.5°	1533.4
20°	1493.7
22.5°	1438.3
25°	1382.8
27.5°	1307.5
30°	1208.5
32.5°	1097.5
35°	962.8
37.5°	820.2
40°	673.6
42.5°	538.9
45°	416.0
47.5°	313.0
50°	225.8
52.5°	158.5
55°	107.0
57.5°	71.3
60°	51.5
62.5°	35.7
65°	23.8
67.5°	15.8
70°	11.9
72.5°	7.9
75°	4.0
77.5°	4.0
80°	4.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)