

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: P212523

Luminaire Tested: **LSR4B40D010BZ EC4B30508050 4LBNGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212523  
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 EC4B30508050 4LBNGPH1  
Description: PORTFOLIO 4 INCH CYLINDER  
NARROW DISTRIBUTION WITH 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: 1982.2 lumens  
Efficiency: N/A  
Efficacy: 47.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

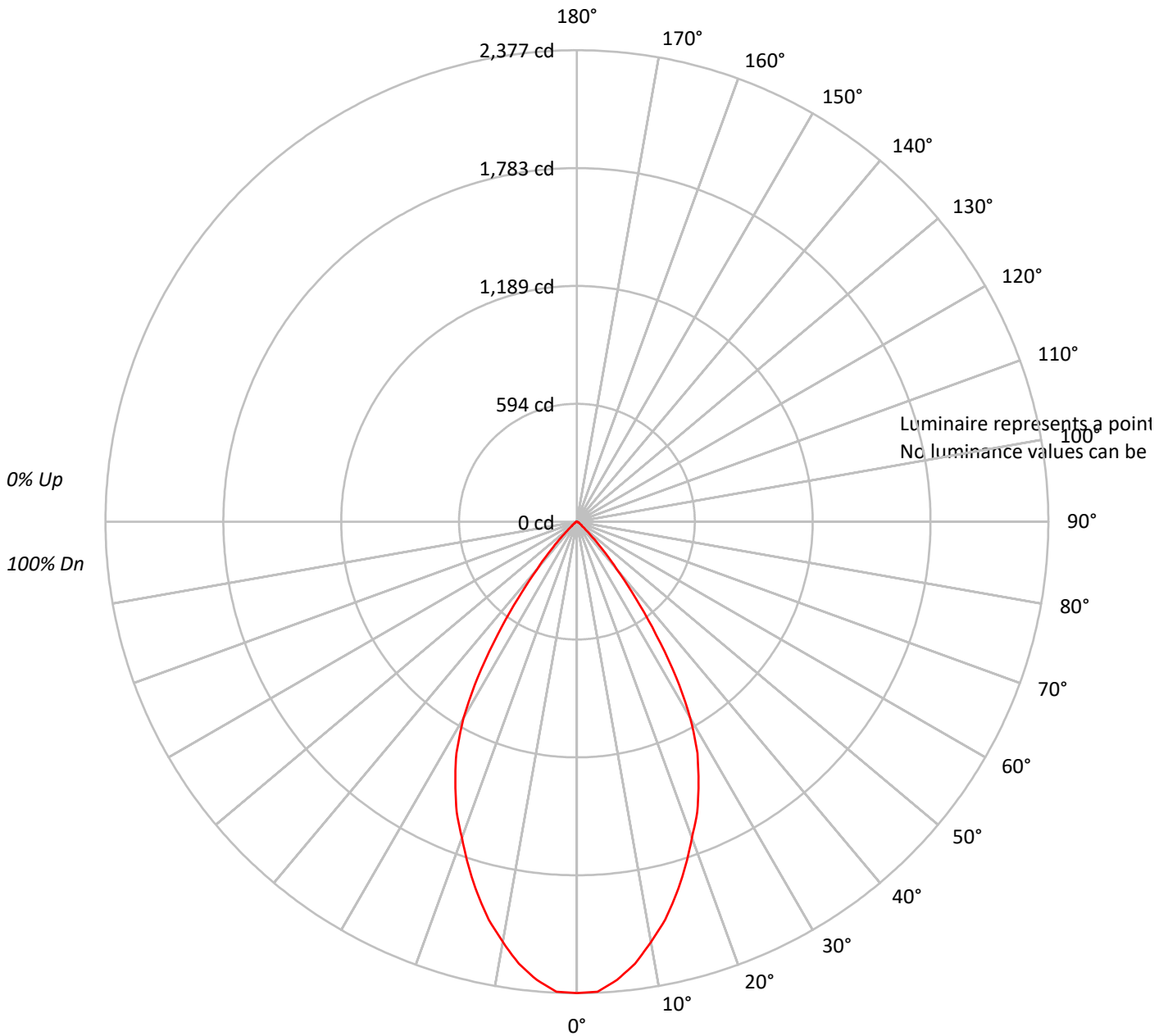
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P212523

CATALOG NUMBER: LSR4B40D010BZ EC4B30508050 4LBNGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P212523

CATALOG NUMBER: LSR4B40D010BZ EC4B30508050 4LBNGPH1

**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	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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																												
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	91	89	87																												
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																												
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																												
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																												
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66																												
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62																												
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58																												
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																												
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																												

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





TEST NUMBER: P212523

CATALOG NUMBER: LSR4B40D010BZ EC4B30508050 4LBNGPH1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.1	10.9
10°-20°	541.8	27.3
20°-30°	660.3	33.3
30°-40°	435.6	22.0
40°-50°	100.3	5.1
50°-60°	19.2	1.0
60°-70°	7.1	0.4
70°-80°	1.9	0.1
80°-90°	0.0	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°	1418.2	71.5
0°-40°	1853.8	93.5
0°-60°	1973.3	99.5
0°-90°	1982.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2377	
5°	2320	216
15°	1940	542
25°	1450	660
35°	696	436
45°	110	100
55°	19	19
65°	5	7
75°	0	2
85°	0	0
90°	0	



TEST NUMBER: P212523

CATALOG NUMBER: LSR4B40D010BZ EC4B30508050 4LBNGPH1

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2377.1
2.5°	2372.3
5°	2319.5
7.5°	2247.5
10°	2151.4
12.5°	2055.4
15°	1940.1
17.5°	1820.1
20°	1695.2
22.5°	1584.8
25°	1450.3
27.5°	1315.8
30°	1142.9
32.5°	931.6
35°	696.3
37.5°	485.0
40°	312.1
42.5°	192.1
45°	110.5
47.5°	57.6
50°	33.6
52.5°	28.8
55°	19.2
57.5°	14.4
60°	14.4
62.5°	9.6
65°	4.8
67.5°	4.8
70°	4.8
72.5°	4.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)