

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: P212569

Luminaire Tested: **LSR4B40D010BZ EC4B30509050 4LBWMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212569  
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 EC4B30509050 4LBWMW1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH MATTE WHITE 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: 3111.1 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

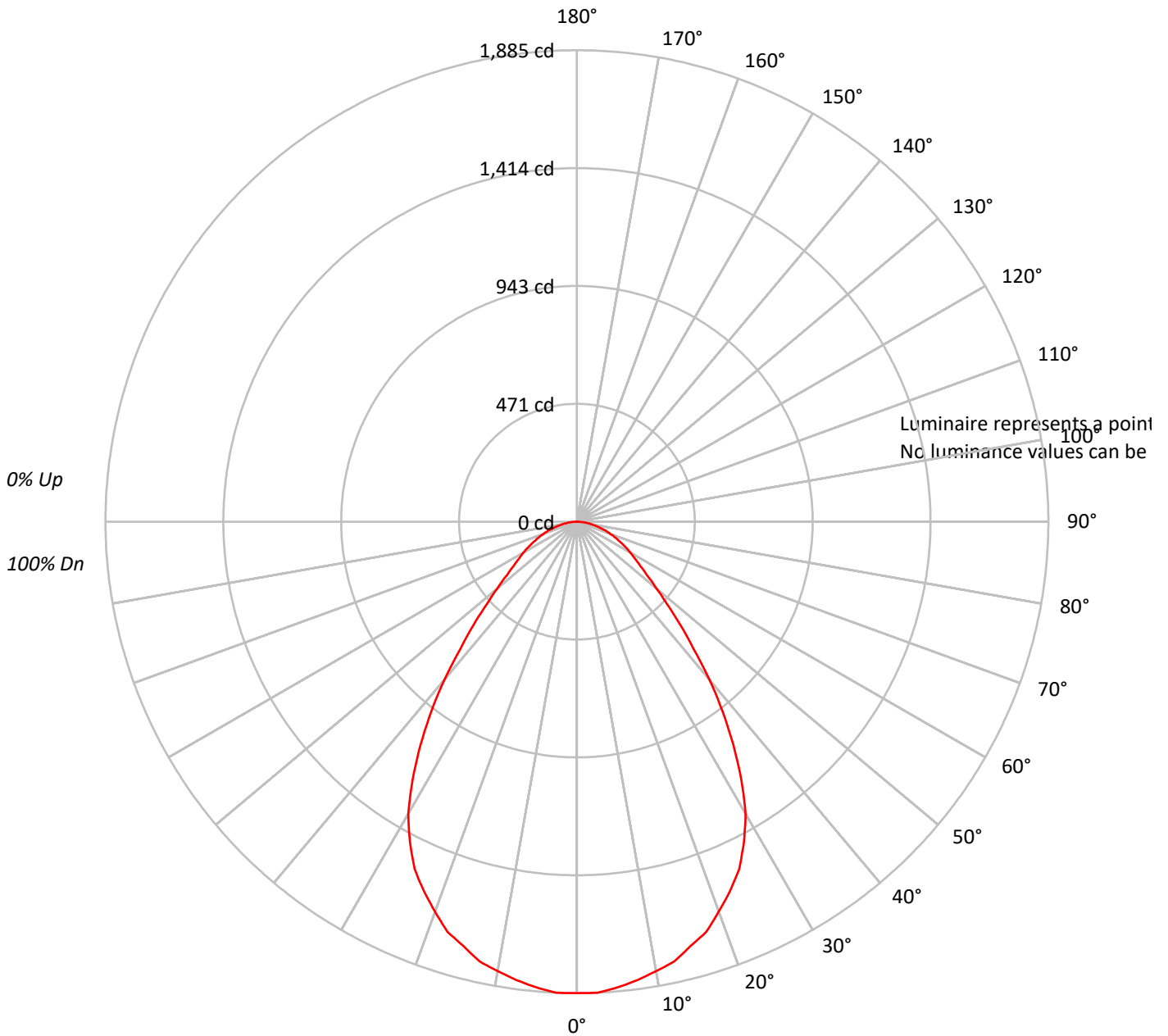
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	5.7
10°-20°	495.0	15.9
20°-30°	699.6	22.5
30°-40°	677.6	21.8
40°-50°	457.2	14.7
50°-60°	283.8	9.1
60°-70°	189.7	6.1
70°-80°	103.8	3.3
80°-90°	27.5	0.9
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°	1371.6	44.1
0°-40°	2049.2	65.9
0°-60°	2790.3	89.7
0°-90°	3111.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1885	
5°	1869	177
15°	1756	495
25°	1534	700
35°	1090	678
45°	585	457
55°	311	284
65°	190	190
75°	97	104
85°	24	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1885.3
2.5°	1885.3
5°	1869.1
7.5°	1848.9
10°	1824.7
12.5°	1800.5
15°	1756.1
17.5°	1719.8
20°	1659.2
22.5°	1598.6
25°	1534.1
27.5°	1445.2
30°	1348.4
32.5°	1223.2
35°	1090.0
37.5°	956.8
40°	823.5
42.5°	690.3
45°	585.4
47.5°	488.5
50°	415.8
52.5°	355.3
55°	310.8
57.5°	274.5
60°	246.3
62.5°	218.0
65°	189.7
67.5°	165.5
70°	141.3
72.5°	121.1
75°	96.9
77.5°	76.7
80°	56.5
82.5°	40.4
85°	24.2
87.5°	8.1
90°	0.0



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— 0°-180°







(END OF REPORT)