

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: P212114

Luminaire Tested: **LSR4B30D010BZ EC4B30509040 4LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212114  
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: LSR4B30D010BZ EC4B30509040 4LBMMW1  
Description: PORTFOLIO 4 INCH CYLINDER  
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1981.7 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

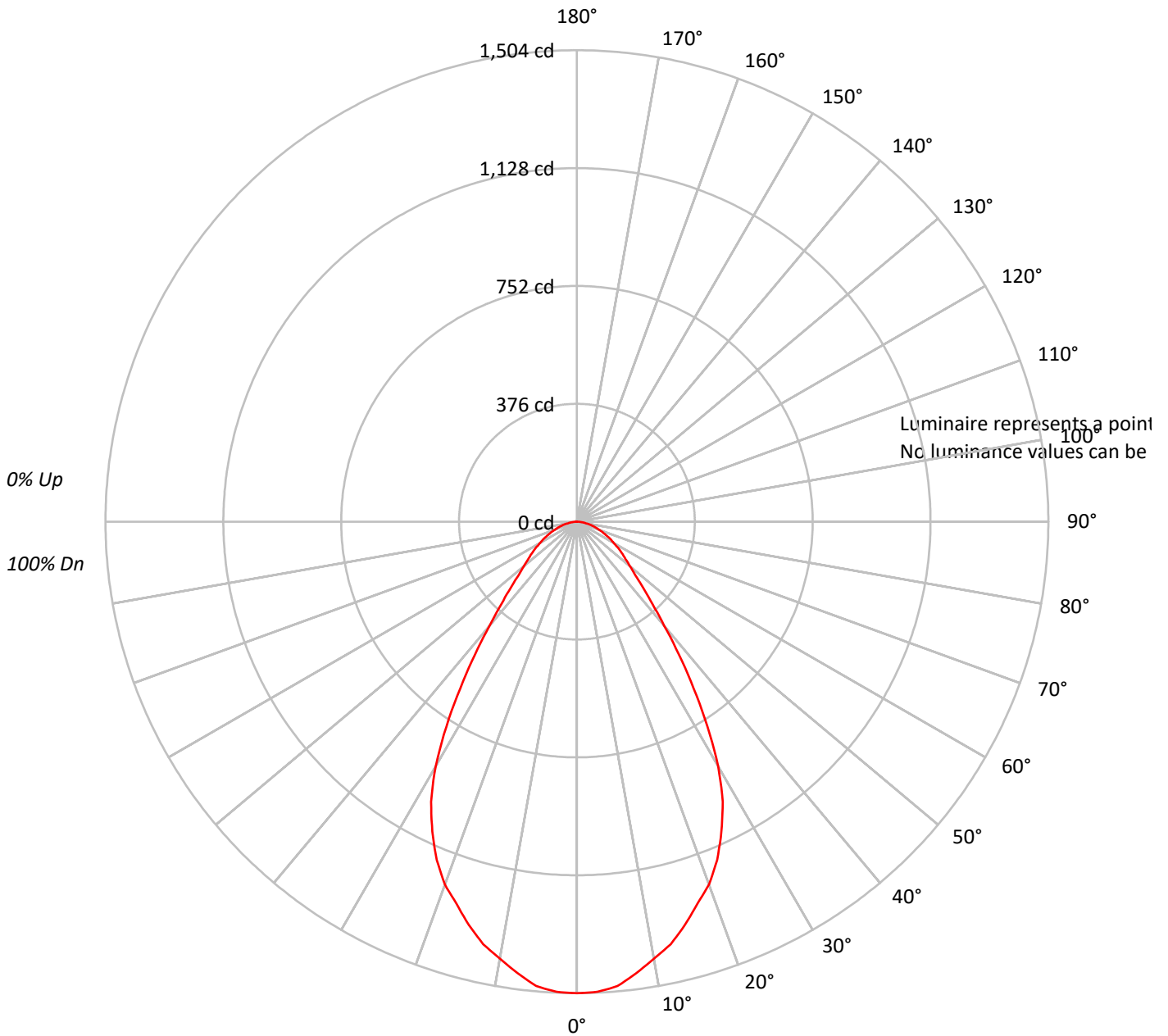
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80			80
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53			53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42			42
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39			39

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	7.0
10°-20°	373.8	18.9
20°-30°	497.1	25.1
30°-40°	406.5	20.5
40°-50°	236.8	11.9
50°-60°	157.0	7.9
60°-70°	103.3	5.2
70°-80°	54.5	2.8
80°-90°	13.3	0.7
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°	1010.3	51.0
0°-40°	1416.9	71.5
0°-60°	1810.7	91.4
0°-90°	1981.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1504	
5°	1487	139
15°	1332	374
25°	1091	497
35°	649	407
45°	299	237
55°	175	157
65°	103	103
75°	52	55
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1504.4
2.5°	1501.5
5°	1487.2
7.5°	1452.7
10°	1415.4
12.5°	1380.9
15°	1332.1
17.5°	1277.6
20°	1231.6
22.5°	1168.5
25°	1091.0
27.5°	1007.7
30°	901.5
32.5°	775.2
35°	648.8
37.5°	534.0
40°	433.5
42.5°	356.0
45°	298.6
47.5°	252.6
50°	221.1
52.5°	195.2
55°	175.1
57.5°	155.0
60°	134.9
62.5°	120.6
65°	103.4
67.5°	89.0
70°	74.6
72.5°	63.2
75°	51.7
77.5°	40.2
80°	28.7
82.5°	20.1
85°	11.5
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)