

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: P212192

Luminaire Tested: **LSR4B30D010BZ EC4B30509050 4LBWMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212192  
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 EC4B30509050 4LBWMW1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE 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: 2221.2 lumens  
Efficiency: N/A  
Efficacy: 79.3 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

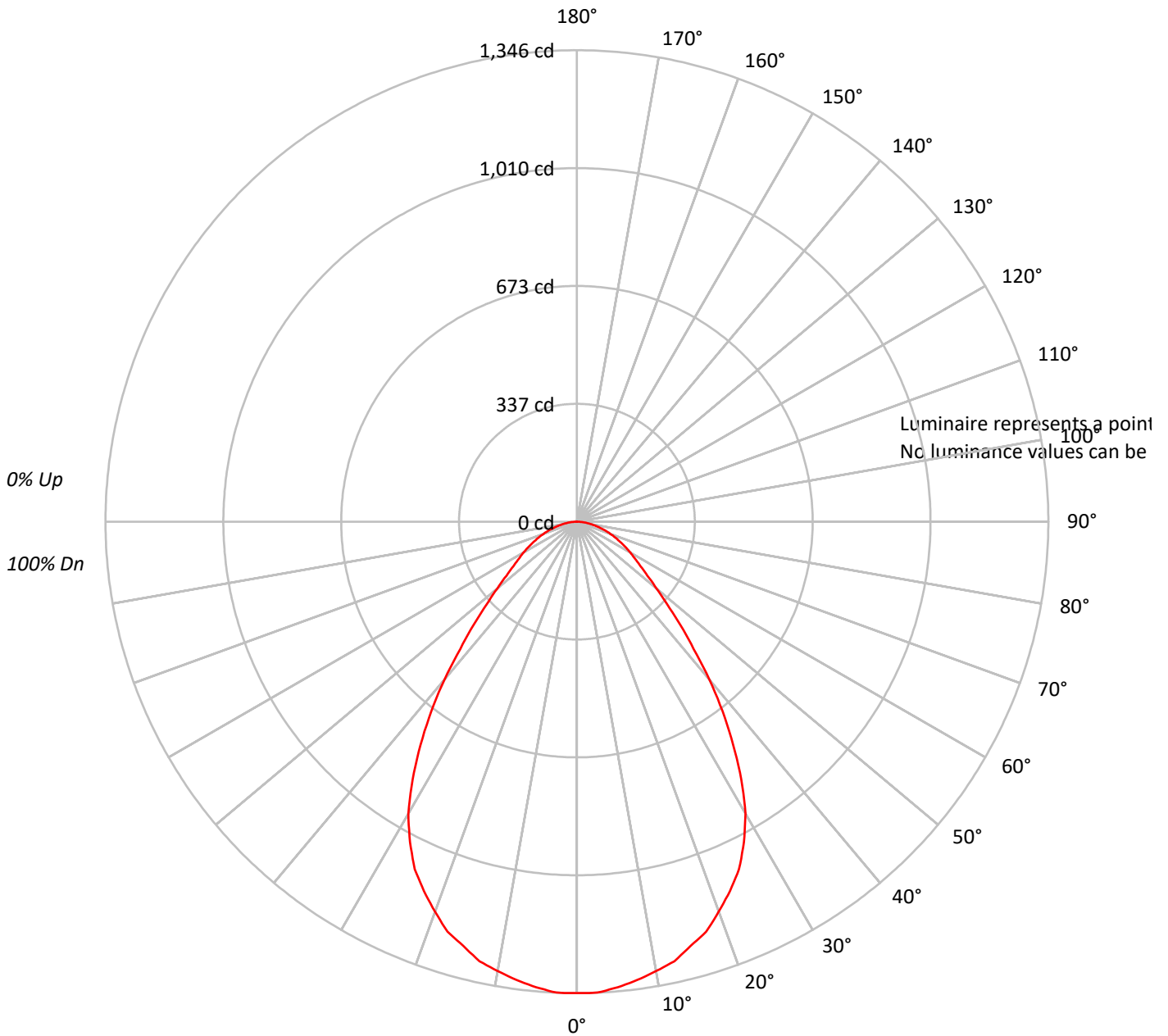
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	126.4	5.7
10°-20°	353.4	15.9
20°-30°	499.4	22.5
30°-40°	483.8	21.8
40°-50°	326.4	14.7
50°-60°	202.6	9.1
60°-70°	135.4	6.1
70°-80°	74.1	3.3
80°-90°	19.6	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°	979.2	44.1
0°-40°	1463.0	65.9
0°-60°	1992.0	89.7
0°-90°	2221.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1346	
5°	1334	126
15°	1254	353
25°	1095	499
35°	778	484
45°	418	326
55°	222	203
65°	136	135
75°	69	74
85°	17	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1346.0
2.5°	1346.0
5°	1334.4
7.5°	1320.0
10°	1302.7
12.5°	1285.4
15°	1253.7
17.5°	1227.8
20°	1184.6
22.5°	1141.3
25°	1095.2
27.5°	1031.8
30°	962.6
32.5°	873.3
35°	778.2
37.5°	683.1
40°	588.0
42.5°	492.8
45°	417.9
47.5°	348.7
50°	296.9
52.5°	253.6
55°	221.9
57.5°	196.0
60°	175.8
62.5°	155.6
65°	135.5
67.5°	118.2
70°	100.9
72.5°	86.5
75°	69.2
77.5°	54.8
80°	40.3
82.5°	28.8
85°	17.3
87.5°	5.8
90°	0.0



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— 0°-180°







(END OF REPORT)