

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: P212164

Luminaire Tested: **LSR4B30D010BZ EC4B30508050 4LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212164  
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 EC4B30508050 4LBWWH1  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH WHEAT 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: 2621.4 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

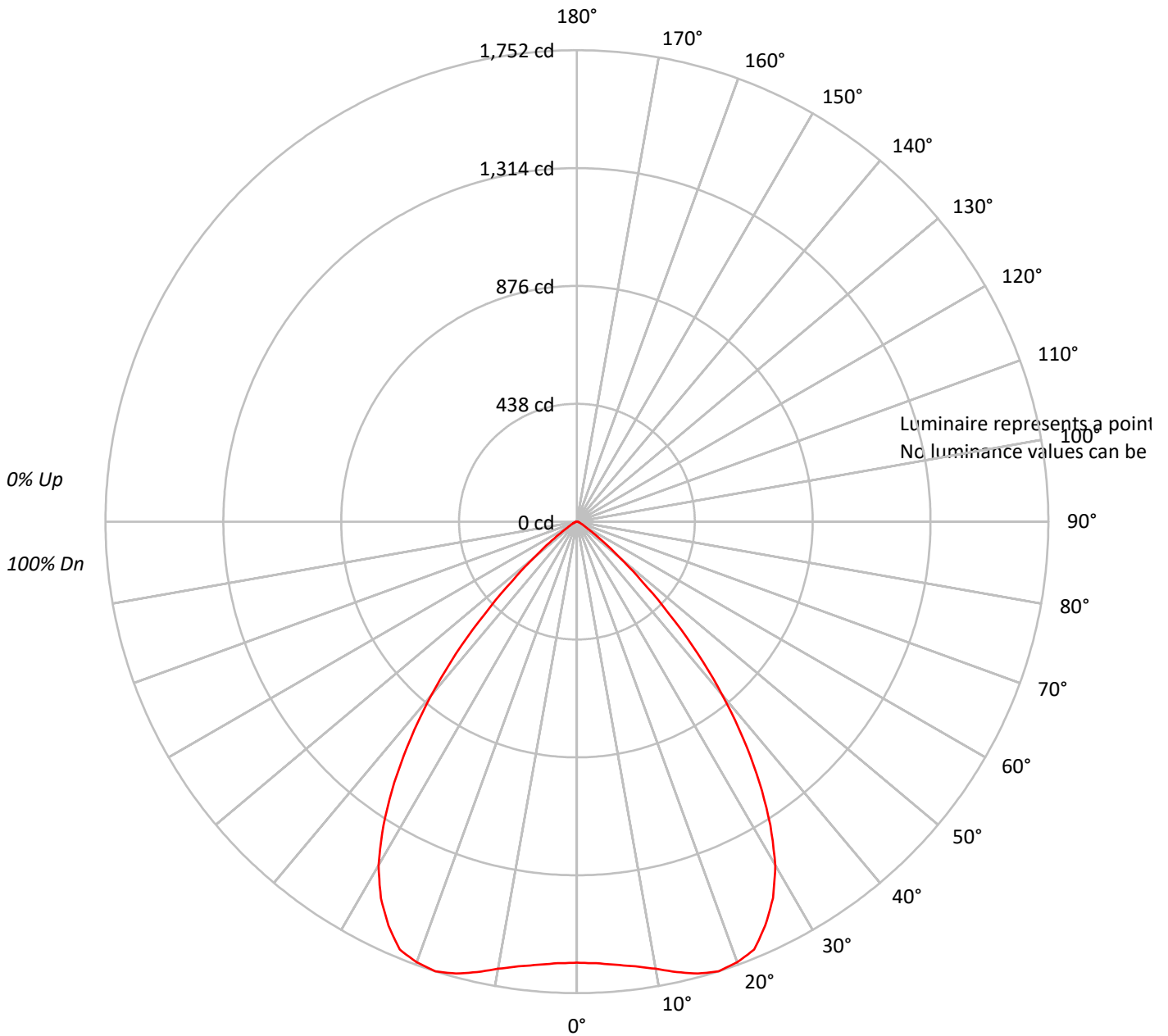
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84																			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53																			
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.8	6.1
10°-20°	491.3	18.7
20°-30°	755.7	28.8
30°-40°	729.1	27.8
40°-50°	380.2	14.5
50°-60°	80.0	3.1
60°-70°	18.6	0.7
70°-80°	7.2	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°	1405.8	53.6
0°-40°	2134.9	81.4
0°-60°	2595.1	99.0
0°-90°	2621.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1639	
5°	1653	159
15°	1738	491
25°	1656	756
35°	1183	729
45°	484	380
55°	72	80
65°	17	19
75°	7	7
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1639.0
2.5°	1642.4
5°	1652.7
7.5°	1666.4
10°	1687.0
12.5°	1714.4
15°	1738.4
17.5°	1752.1
20°	1741.9
22.5°	1721.3
25°	1656.1
27.5°	1577.3
30°	1474.4
32.5°	1337.3
35°	1183.0
37.5°	1014.9
40°	840.1
42.5°	665.2
45°	483.5
47.5°	325.7
50°	209.2
52.5°	126.9
55°	72.0
57.5°	44.6
60°	30.9
62.5°	24.0
65°	17.1
67.5°	13.7
70°	10.3
72.5°	10.3
75°	6.9
77.5°	3.4
80°	3.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)