

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: P212163

Luminaire Tested: **LE\_4B30D010 EC4B30508050 4LBW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212163  
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: LE\_4B30D010 EC4B30508050 4LBW1MW  
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: 3060.6 lumens  
Efficiency: N/A  
Efficacy: 109.3 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

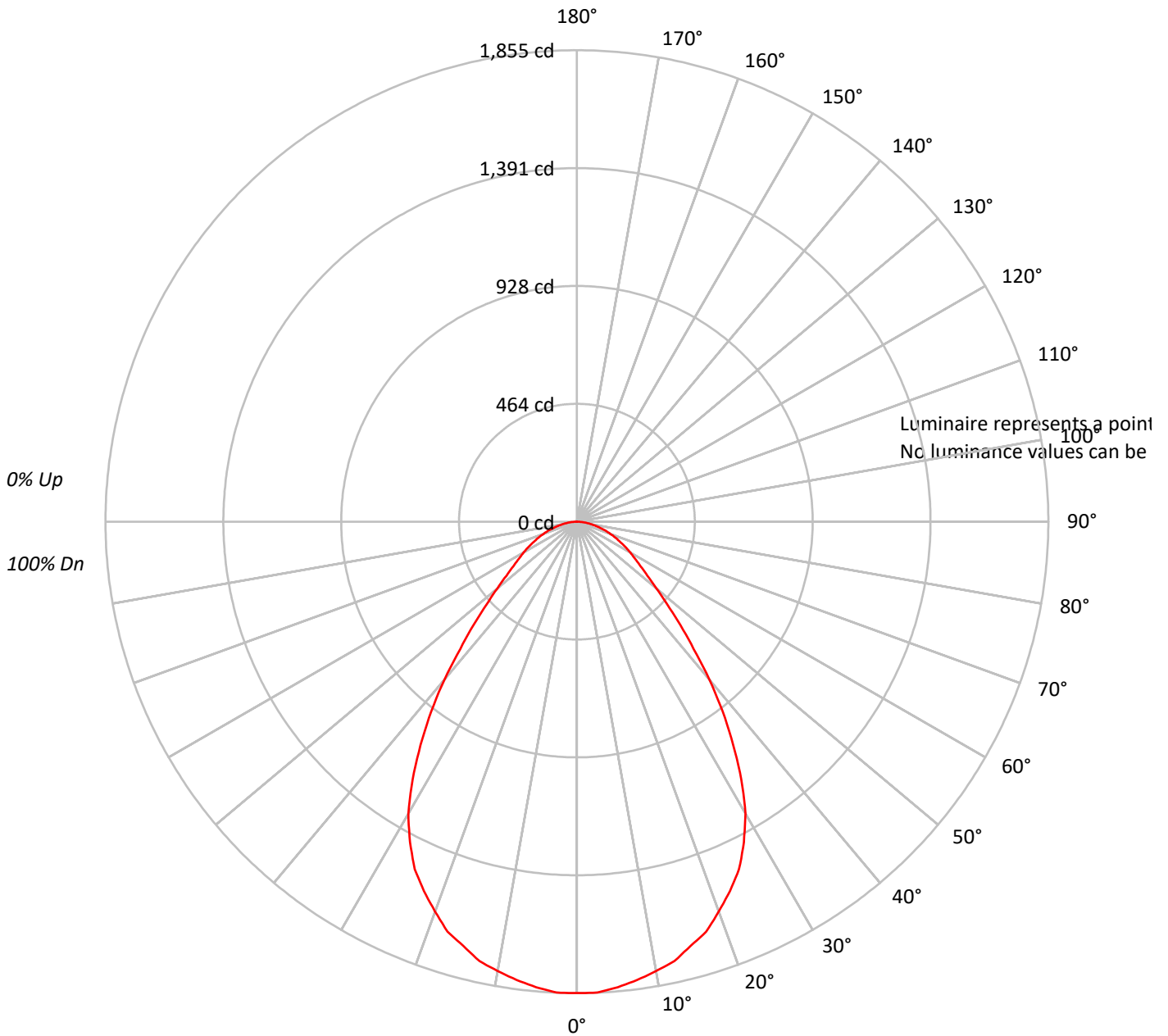
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	174.1	5.7
10°-20°	487.0	15.9
20°-30°	688.2	22.5
30°-40°	666.6	21.8
40°-50°	449.8	14.7
50°-60°	279.2	9.1
60°-70°	186.6	6.1
70°-80°	102.1	3.3
80°-90°	27.0	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°	1349.3	44.1
0°-40°	2016.0	65.9
0°-60°	2744.9	89.7
0°-90°	3060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1855	
5°	1839	174
15°	1728	487
25°	1509	688
35°	1072	667
45°	576	450
55°	306	279
65°	187	187
75°	95	102
85°	24	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1854.7
2.5°	1854.7
5°	1838.8
7.5°	1818.9
10°	1795.1
12.5°	1771.3
15°	1727.6
17.5°	1691.9
20°	1632.2
22.5°	1572.7
25°	1509.2
27.5°	1421.8
30°	1326.5
32.5°	1203.4
35°	1072.3
37.5°	941.2
40°	810.1
42.5°	679.2
45°	575.8
47.5°	480.6
50°	409.0
52.5°	349.5
55°	305.8
57.5°	270.0
60°	242.2
62.5°	214.5
65°	186.6
67.5°	162.9
70°	139.0
72.5°	119.1
75°	95.4
77.5°	75.5
80°	55.6
82.5°	39.7
85°	23.8
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)