

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: P212044

Luminaire Tested: **LE\_4B30D010 EC4B30508035 4LBW1GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212044  
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 EC4B30508035 4LBW1GPH  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTIONWITH GRAPHITE HAZE 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: 2270.2 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

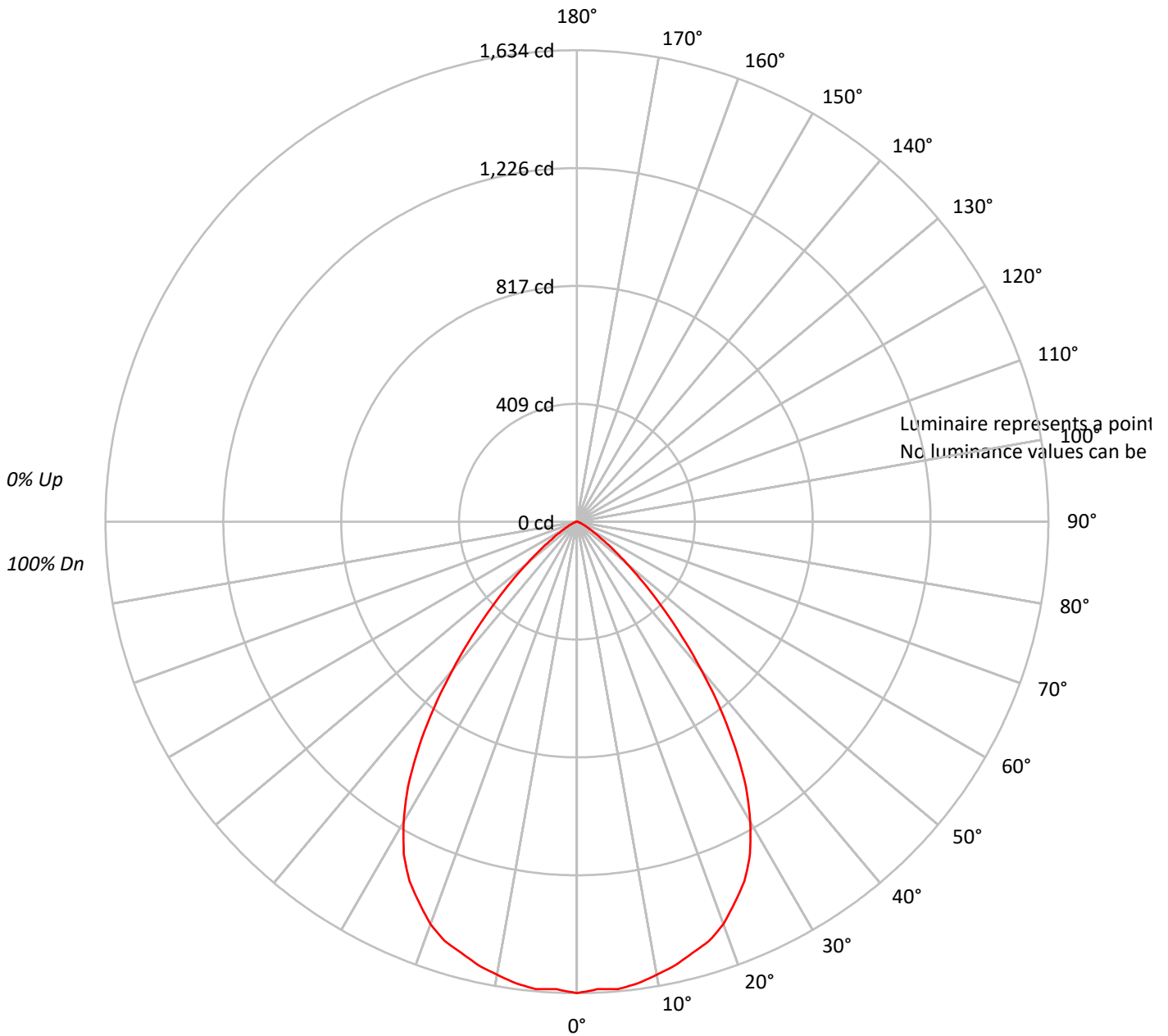
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76				76
4	94	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69				69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63				63
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57				57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	55	63	58	54	53				53
8	73	62	56	51	72	62	55	51	61	55	51	59	54	50	58	54	50	48				48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45				45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	6.8
10°-20°	436.8	19.2
20°-30°	626.4	27.6
30°-40°	589.8	26.0
40°-50°	325.7	14.3
50°-60°	104.5	4.6
60°-70°	26.2	1.2
70°-80°	6.2	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°	1217.3	53.6
0°-40°	1807.1	79.6
0°-60°	2237.3	98.6
0°-90°	2270.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1634	
5°	1626	154
15°	1547	437
25°	1374	626
35°	957	590
45°	413	326
55°	106	104
65°	24	26
75°	4	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1634.0
2.5°	1622.1
5°	1626.1
7.5°	1614.4
10°	1594.7
12.5°	1574.9
15°	1547.4
17.5°	1523.8
20°	1484.3
22.5°	1429.2
25°	1374.1
27.5°	1299.3
30°	1200.9
32.5°	1090.6
35°	956.8
37.5°	815.0
40°	669.3
42.5°	535.5
45°	413.4
47.5°	311.0
50°	224.5
52.5°	157.5
55°	106.3
57.5°	70.9
60°	51.2
62.5°	35.4
65°	23.7
67.5°	15.8
70°	11.8
72.5°	7.9
75°	3.9
77.5°	3.9
80°	3.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)