

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: P211120

Luminaire Tested: **LE\_4B15D010 EC4B10208027 4LBW1WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211120  
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\_4B15D010 EC4B10208027 4LBW1WH  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH WHEAT TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1439.9 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

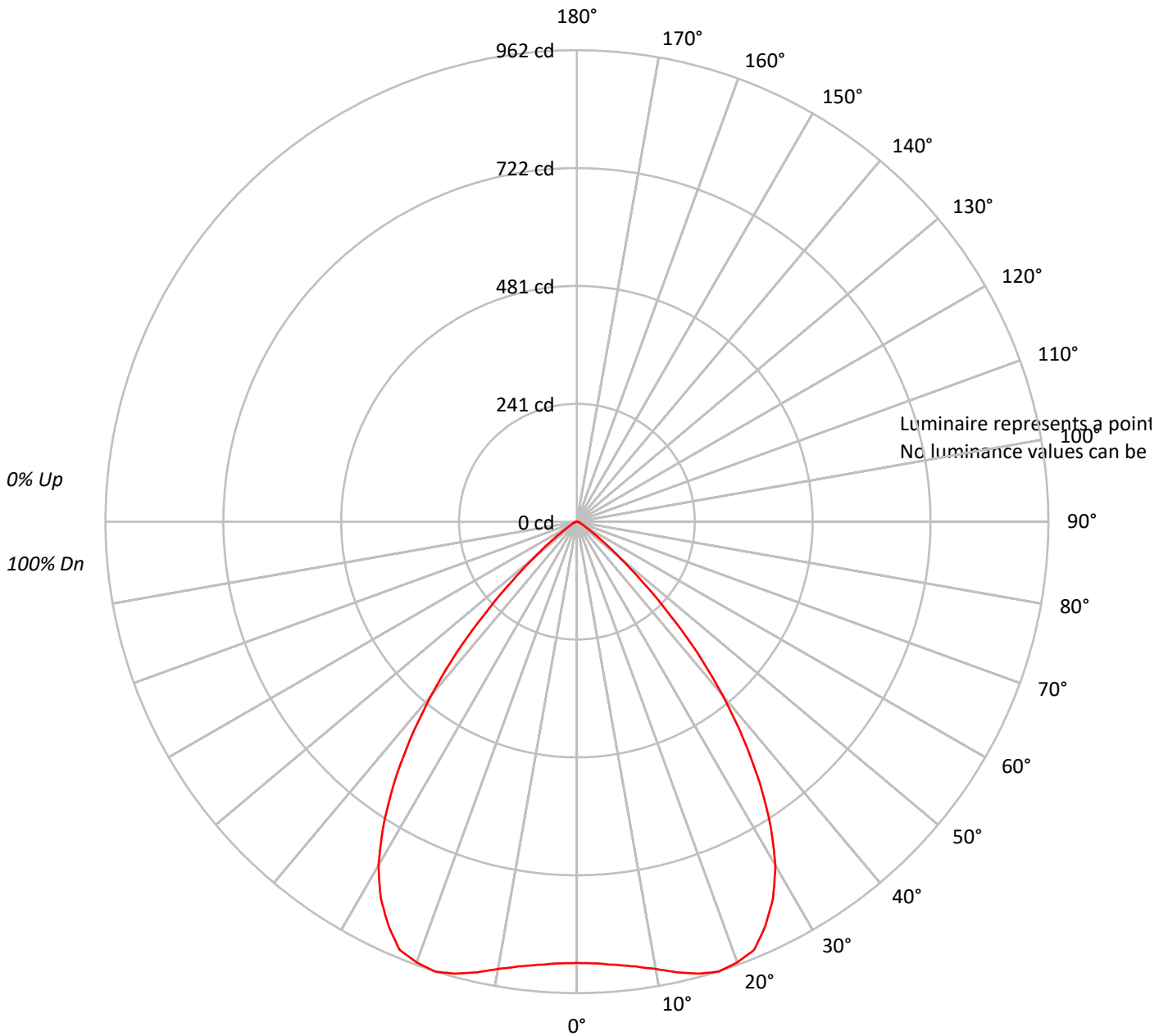
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84			84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			58
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53			53
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49			49
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	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°	87.2	6.1
10°-20°	269.9	18.7
20°-30°	415.1	28.8
30°-40°	400.5	27.8
40°-50°	208.8	14.5
50°-60°	44.0	3.1
60°-70°	10.2	0.7
70°-80°	4.0	0.3
80°-90°	0.3	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°	772.2	53.6
0°-40°	1172.7	81.4
0°-60°	1425.5	99.0
0°-90°	1439.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	900	
5°	908	87
15°	955	270
25°	910	415
35°	650	401
45°	266	209
55°	40	44
65°	9	10
75°	4	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	900.3
2.5°	902.2
5°	907.8
7.5°	915.4
10°	926.7
12.5°	941.8
15°	954.9
17.5°	962.5
20°	956.9
22.5°	945.5
25°	909.8
27.5°	866.4
30°	809.9
32.5°	734.6
35°	649.8
37.5°	557.5
40°	461.4
42.5°	365.4
45°	265.5
47.5°	179.0
50°	114.8
52.5°	69.7
55°	39.6
57.5°	24.5
60°	16.9
62.5°	13.2
65°	9.4
67.5°	7.5
70°	5.7
72.5°	5.7
75°	3.7
77.5°	1.9
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)