

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: P212132

Luminaire Tested: **LE\_4B30D010 EC4B30509040 4L1BWH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212132  
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 EC4B30509040 4L1BWH  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR 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: 2455.4 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

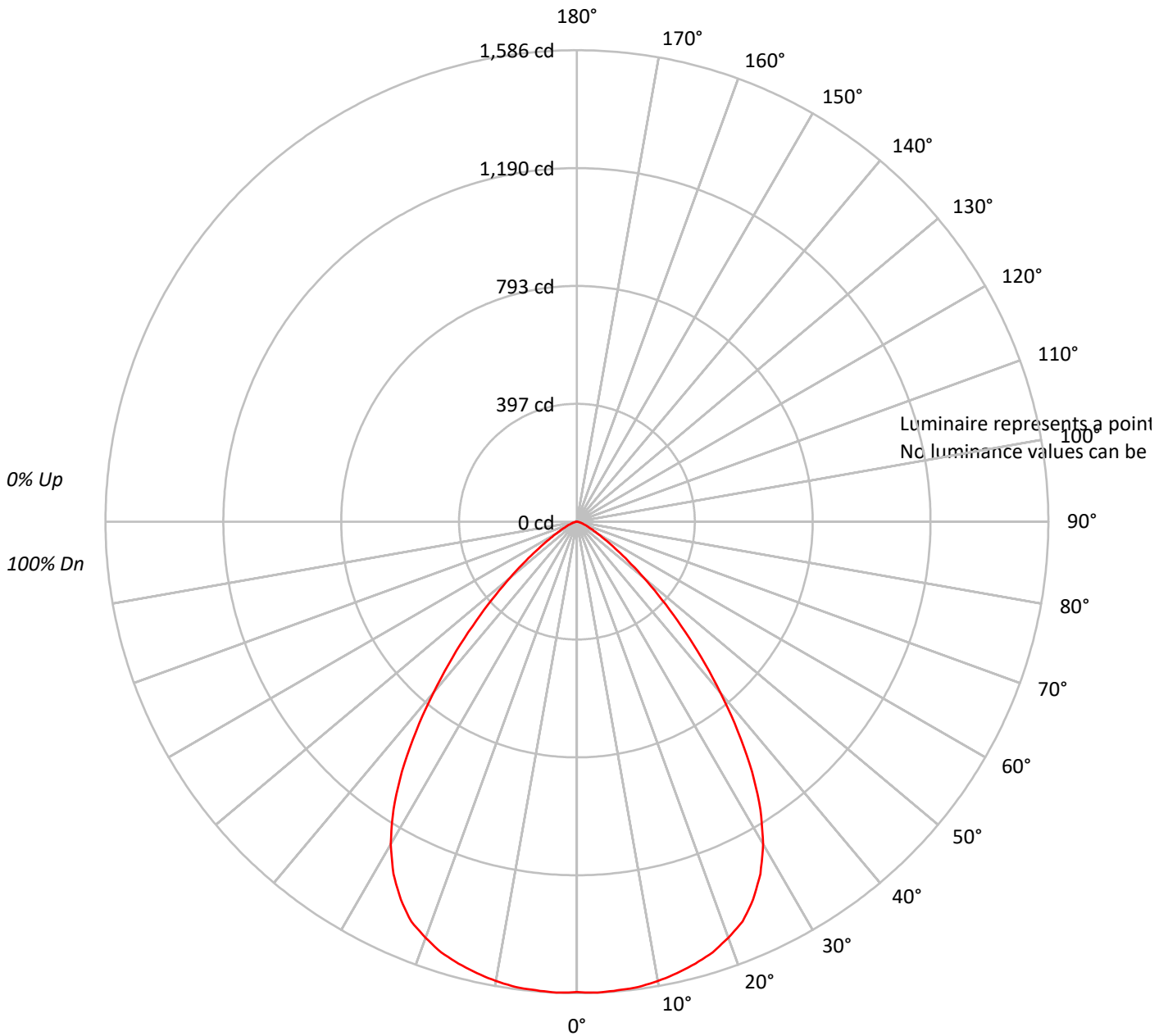
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	6.1
10°-20°	434.3	17.7
20°-30°	640.8	26.1
30°-40°	632.4	25.8
40°-50°	387.0	15.8
50°-60°	148.4	6.0
60°-70°	46.4	1.9
70°-80°	13.6	0.6
80°-90°	1.8	0.1
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°	1225.8	49.9
0°-40°	1858.3	75.7
0°-60°	2393.7	97.5
0°-90°	2455.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2455.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1583	
5°	1583	151
15°	1539	434
25°	1403	641
35°	1026	632
45°	496	387
55°	157	148
65°	43	46
75°	13	14
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1582.6
2.5°	1586.0
5°	1582.6
7.5°	1579.3
10°	1569.2
12.5°	1555.9
15°	1539.3
17.5°	1519.4
20°	1489.3
22.5°	1456.0
25°	1402.7
27.5°	1336.1
30°	1252.8
32.5°	1149.4
35°	1026.3
37.5°	889.6
40°	749.7
42.5°	619.7
45°	496.5
47.5°	386.5
50°	293.2
52.5°	216.6
55°	156.6
57.5°	110.0
60°	79.9
62.5°	60.0
65°	43.3
67.5°	33.3
70°	23.3
72.5°	16.7
75°	13.3
77.5°	6.6
80°	6.6
82.5°	3.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)