

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: P212134

Luminaire Tested: **LE\_4B30D010 EC4B30509040 4LBW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P212134  
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 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: 2565.4 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

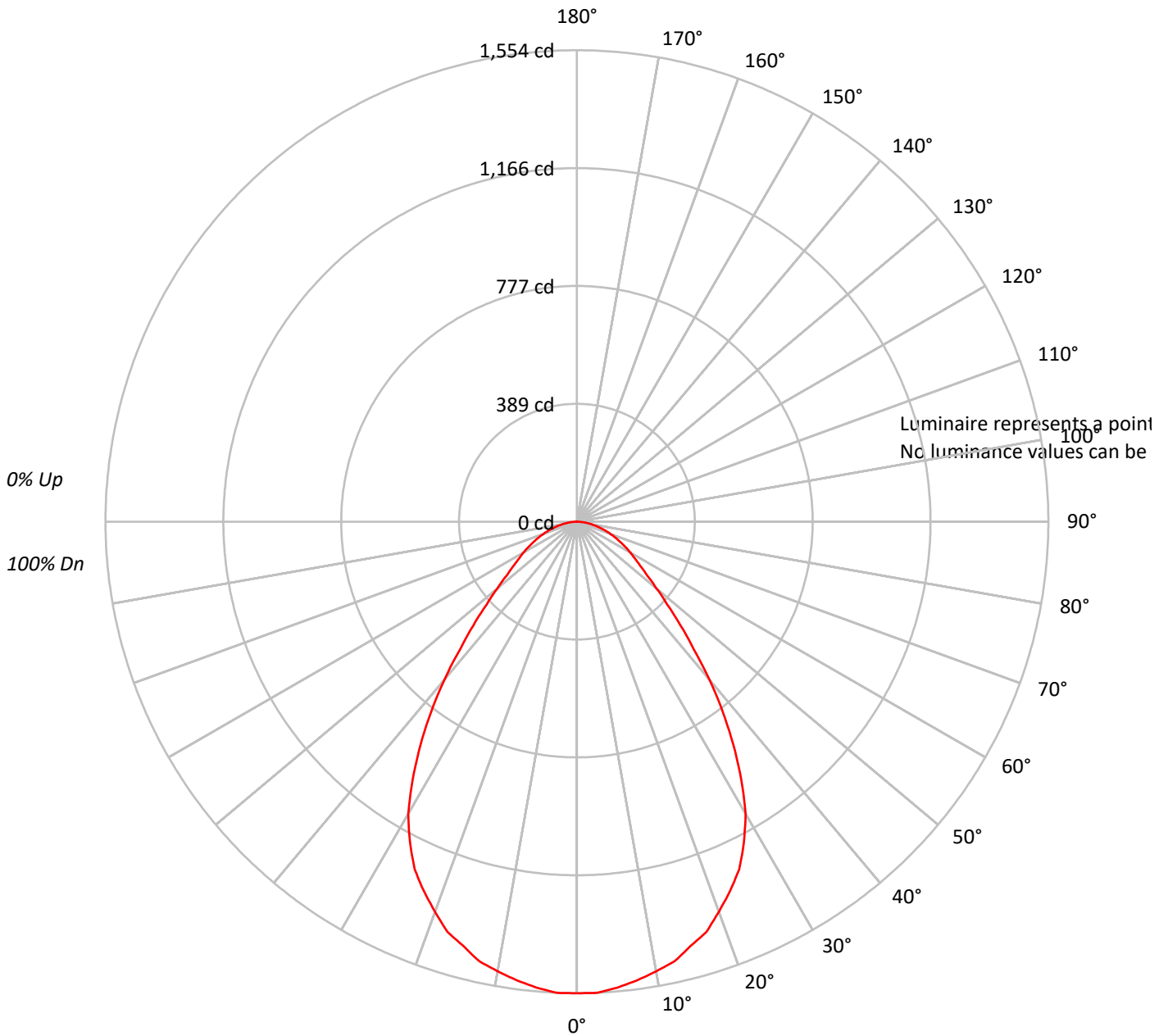
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	146.0	5.7
10°-20°	408.2	15.9
20°-30°	576.9	22.5
30°-40°	558.8	21.8
40°-50°	377.0	14.7
50°-60°	234.0	9.1
60°-70°	156.4	6.1
70°-80°	85.6	3.3
80°-90°	22.6	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°	1131.0	44.1
0°-40°	1689.7	65.9
0°-60°	2300.8	89.7
0°-90°	2565.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1554	
5°	1541	146
15°	1448	408
25°	1265	577
35°	899	559
45°	483	377
55°	256	234
65°	156	156
75°	80	86
85°	20	23
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1554.5
2.5°	1554.5
5°	1541.2
7.5°	1524.6
10°	1504.6
12.5°	1484.6
15°	1448.0
17.5°	1418.1
20°	1368.1
22.5°	1318.2
25°	1265.0
27.5°	1191.7
30°	1111.9
32.5°	1008.6
35°	898.8
37.5°	788.9
40°	679.1
42.5°	569.2
45°	482.7
47.5°	402.8
50°	342.9
52.5°	292.9
55°	256.4
57.5°	226.3
60°	203.0
62.5°	179.8
65°	156.5
67.5°	136.5
70°	116.5
72.5°	99.9
75°	79.9
77.5°	63.2
80°	46.6
82.5°	33.3
85°	20.0
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)