

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: P211839

Luminaire Tested: **LE\_4B30D010 EC4B30509024 4LBS1WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211839  
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 EC4B30509024 4LBS1WMH  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH WARM 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: 2435.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

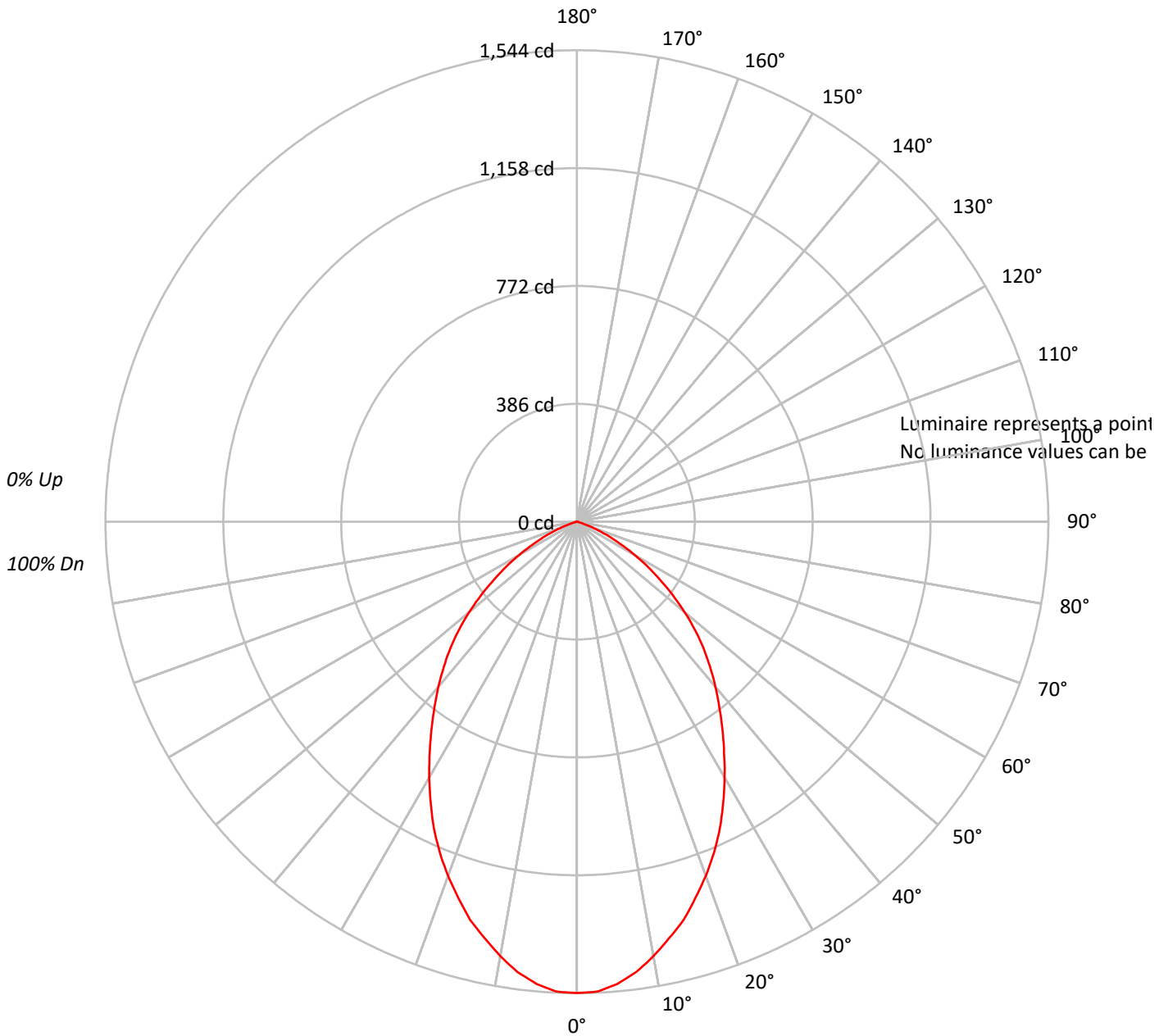
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	96	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	73	65	59	82	72	64	59	70	63	59	68	62	58	66	61	57	56
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	5.9
10°-20°	378.1	15.5
20°-30°	507.8	20.8
30°-40°	519.8	21.3
40°-50°	449.9	18.5
50°-60°	299.2	12.3
60°-70°	122.9	5.0
70°-80°	14.6	0.6
80°-90°	0.7	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°	1028.5	42.2
0°-40°	1548.3	63.6
0°-60°	2297.5	94.3
0°-90°	2435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1544	
5°	1520	143
15°	1350	378
25°	1108	508
35°	830	520
45°	586	450
55°	332	299
65°	121	123
75°	6	15
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1543.7
2.5°	1540.5
5°	1519.7
7.5°	1487.8
10°	1444.7
12.5°	1396.9
15°	1350.5
17.5°	1291.4
20°	1234.0
22.5°	1173.3
25°	1107.9
27.5°	1037.6
30°	967.4
32.5°	897.1
35°	830.1
37.5°	766.3
40°	705.6
42.5°	645.0
45°	585.9
47.5°	523.6
50°	459.7
52.5°	395.9
55°	332.0
57.5°	276.2
60°	218.7
62.5°	166.0
65°	121.3
67.5°	79.8
70°	46.3
72.5°	22.4
75°	6.4
77.5°	3.2
80°	1.6
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)