

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: P211902

Luminaire Tested: **LE\_4B30D010 EC4B30509027 4LBW1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211902  
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 EC4B30509027 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**

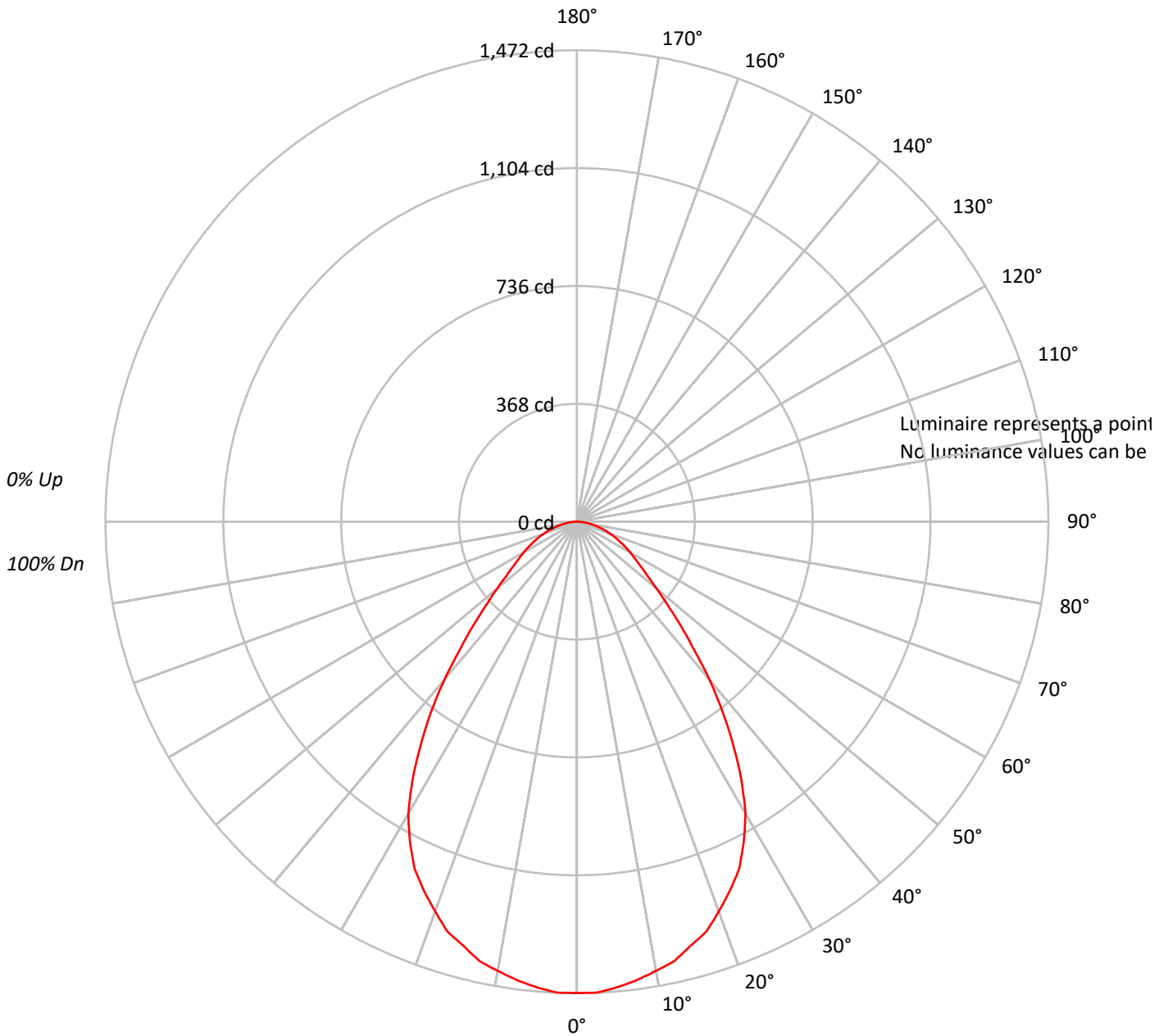
Lumens per Lamp: N/A  
Luminaire Lumens: 2428.4 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

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	0
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°	138.2	5.7
10°-20°	386.4	15.9
20°-30°	546.0	22.5
30°-40°	528.9	21.8
40°-50°	356.9	14.7
50°-60°	221.5	9.1
60°-70°	148.1	6.1
70°-80°	81.0	3.3
80°-90°	21.4	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°	1070.6	44.1
0°-40°	1599.5	65.9
0°-60°	2177.9	89.7
0°-90°	2428.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1472	
5°	1459	138
15°	1371	386
25°	1197	546
35°	851	529
45°	457	357
55°	243	222
65°	148	148
75°	76	81
85°	19	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1471.6
2.5°	1471.6
5°	1458.9
7.5°	1443.2
10°	1424.2
12.5°	1405.3
15°	1370.7
17.5°	1342.4
20°	1295.0
22.5°	1247.8
25°	1197.4
27.5°	1128.1
30°	1052.5
32.5°	954.8
35°	850.7
37.5°	746.8
40°	642.8
42.5°	538.8
45°	456.9
47.5°	381.3
50°	324.6
52.5°	277.2
55°	242.7
57.5°	214.3
60°	192.2
62.5°	170.2
65°	148.1
67.5°	129.2
70°	110.3
72.5°	94.5
75°	75.6
77.5°	59.9
80°	44.1
82.5°	31.6
85°	18.9
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)