

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: P211978

Luminaire Tested: **LE\_4B30D010 EC4B30509030 4LBS1B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211978  
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 EC4B30509030 4LBS1B  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH SPECULAR BLACK 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: 2495.6 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

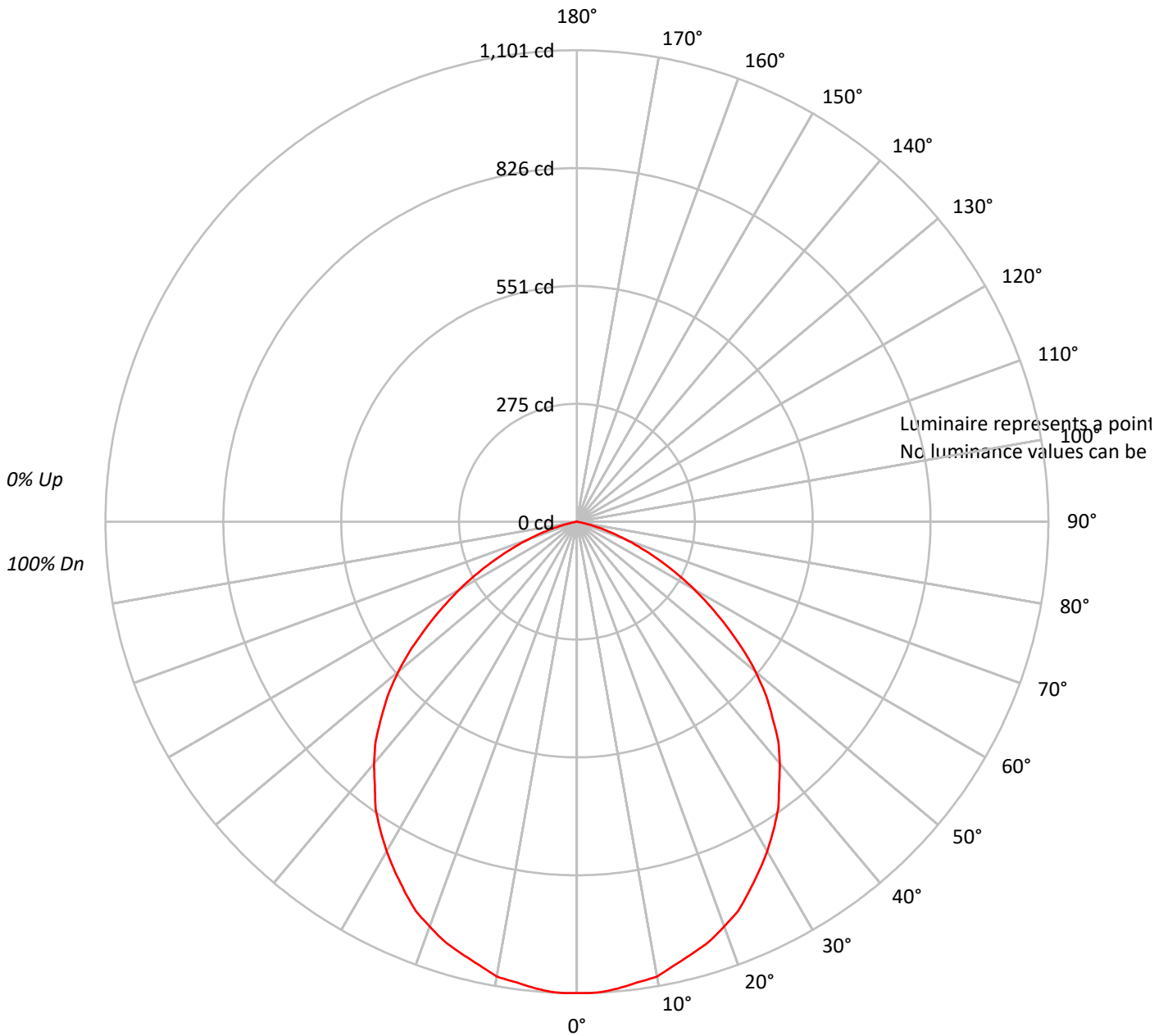
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88			
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76			
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	4.2
10°-20°	294.8	11.8
20°-30°	438.6	17.6
30°-40°	510.3	20.4
40°-50°	497.4	19.9
50°-60°	382.6	15.3
60°-70°	211.5	8.5
70°-80°	56.0	2.2
80°-90°	0.4	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°	837.3	33.6
0°-40°	1347.6	54.0
0°-60°	2227.7	89.3
0°-90°	2495.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1101	
5°	1095	104
15°	1044	295
25°	952	439
35°	819	510
45°	645	497
55°	427	383
65°	212	211
75°	47	56
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1101.0
2.5°	1101.0
5°	1094.6
7.5°	1085.1
10°	1078.8
12.5°	1059.8
15°	1044.0
17.5°	1028.1
20°	1006.0
22.5°	983.9
25°	952.2
27.5°	920.6
30°	888.9
32.5°	854.1
35°	819.3
37.5°	775.1
40°	737.1
42.5°	696.0
45°	645.3
47.5°	597.9
50°	544.2
52.5°	487.2
55°	427.1
57.5°	370.2
60°	316.3
62.5°	262.6
65°	211.9
67.5°	164.5
70°	120.2
72.5°	82.2
75°	47.4
77.5°	22.2
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)