

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: P211901

Luminaire Tested: **LE\_4B30D010 EC4B30509027 4LBW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211901  
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 4LBW1LI  
Description: PORTFOLIO 4 INCH CYLINDER  
WIDE DISTRIBUTION WITH 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: 2753.2 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

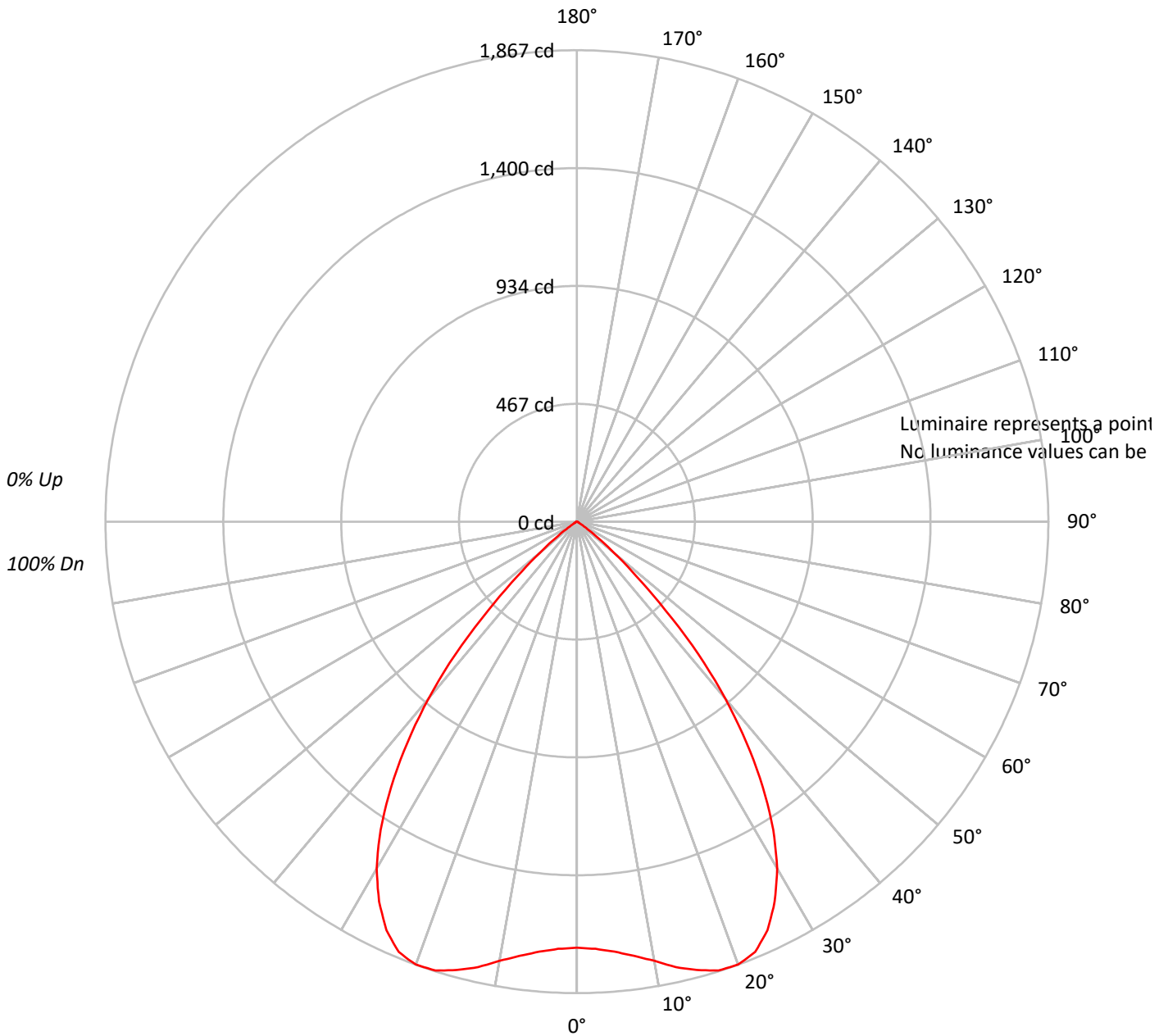
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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																			100									
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			92									
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			84									
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77																			77									
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70																			70									
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																			64									
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58																			58									
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54																			54									
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			49									
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			45									
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			42									

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	6.0
10°-20°	520.6	18.9
20°-30°	812.2	29.5
30°-40°	790.2	28.7
40°-50°	394.7	14.3
50°-60°	61.1	2.2
60°-70°	7.4	0.3
70°-80°	2.0	0.1
80°-90°	0.0	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°	1497.7	54.4
0°-40°	2288.0	83.1
0°-60°	2743.7	99.7
0°-90°	2753.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1687	
5°	1709	165
15°	1838	521
25°	1785	812
35°	1283	790
45°	495	395
55°	50	61
65°	6	7
75°	3	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1687.0
2.5°	1693.3
5°	1709.0
7.5°	1734.2
10°	1765.8
12.5°	1806.8
15°	1838.3
17.5°	1863.5
20°	1866.7
22.5°	1844.6
25°	1784.7
27.5°	1696.4
30°	1586.1
32.5°	1447.3
35°	1283.3
37.5°	1103.6
40°	914.4
42.5°	712.6
45°	495.1
47.5°	318.4
50°	192.3
52.5°	104.1
55°	50.5
57.5°	22.0
60°	12.6
62.5°	9.5
65°	6.3
67.5°	6.3
70°	3.1
72.5°	3.1
75°	3.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)