

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: P211963

Luminaire Tested: **LE\_4B30D010 EC4B30509030 4LBCS1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P211963  
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 4LBCS1MMS  
Description: PORTFOLIO 4 INCH CYLINDER  
SHALLOW DISTRIBUTION WITH CAST MATTE 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: 2548.8 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

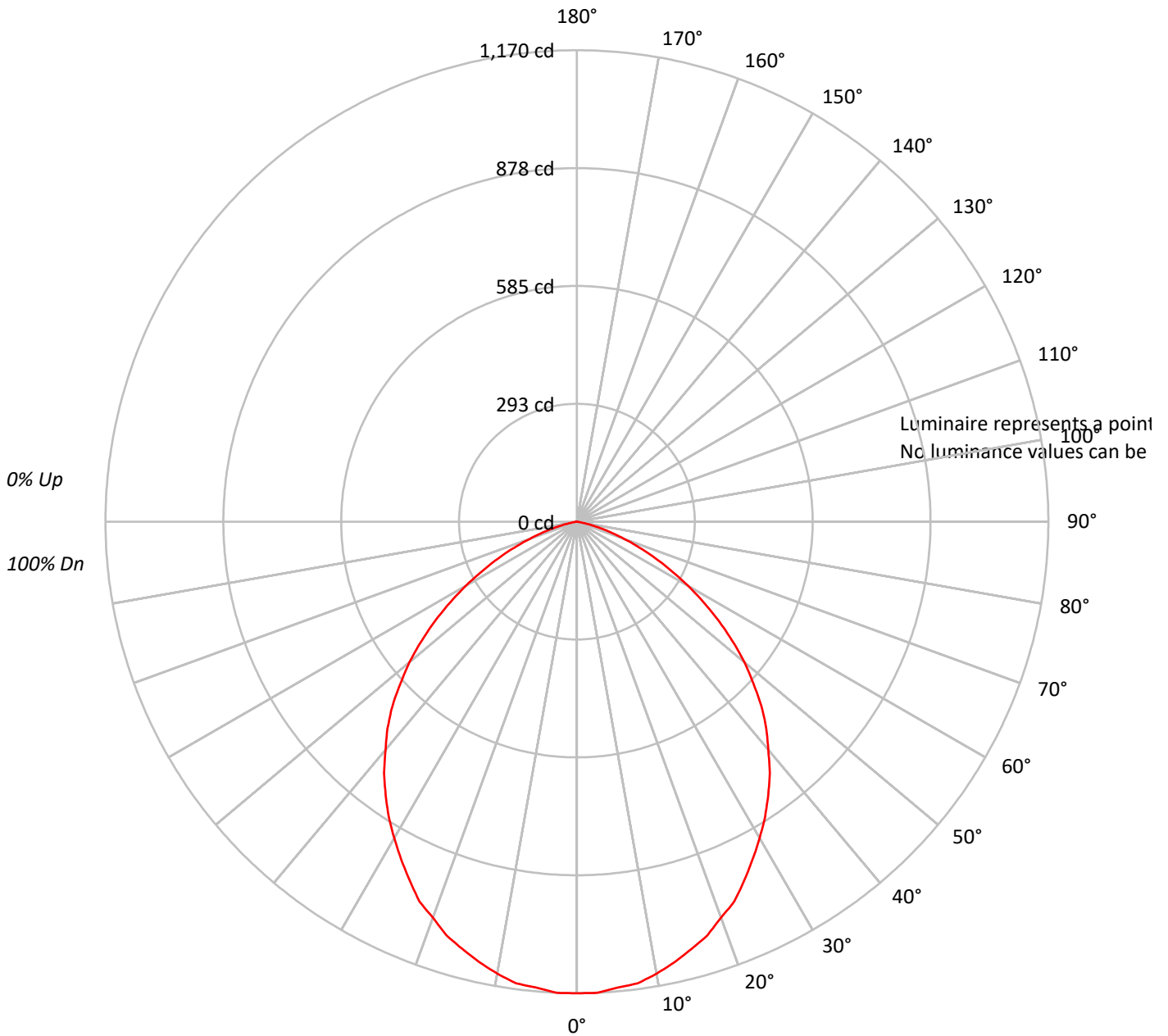
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76			76
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65			65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44			44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40			40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36			36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32			32
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31	41	35	31	29			29

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	4.3
10°-20°	309.5	12.1
20°-30°	452.1	17.7
30°-40°	517.1	20.3
40°-50°	496.9	19.5
50°-60°	383.7	15.1
60°-70°	214.2	8.4
70°-80°	62.3	2.4
80°-90°	2.6	0.1
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°	871.9	34.2
0°-40°	1389.0	54.5
0°-60°	2269.6	89.0
0°-90°	2548.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1170	
5°	1161	110
15°	1098	310
25°	982	452
35°	828	517
45°	648	497
55°	430	384
65°	214	214
75°	54	62
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1170.4
2.5°	1170.4
5°	1160.6
7.5°	1155.6
10°	1139.1
12.5°	1119.4
15°	1097.9
17.5°	1076.5
20°	1045.2
22.5°	1020.5
25°	982.5
27.5°	944.6
30°	906.8
32.5°	868.8
35°	827.5
37.5°	786.4
40°	738.6
42.5°	695.7
45°	647.9
47.5°	593.5
50°	542.4
52.5°	486.3
55°	430.2
57.5°	372.6
60°	318.2
62.5°	263.8
65°	214.4
67.5°	168.2
70°	125.3
72.5°	87.3
75°	54.4
77.5°	28.1
80°	9.9
82.5°	3.2
85°	1.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)