

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: P206366

Luminaire Tested: **LD4B50D010TE EU4B30508027 4LBCSMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206366  
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: LD4B50D010TE EU4B30508027 4LBCSMW1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5189.6 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

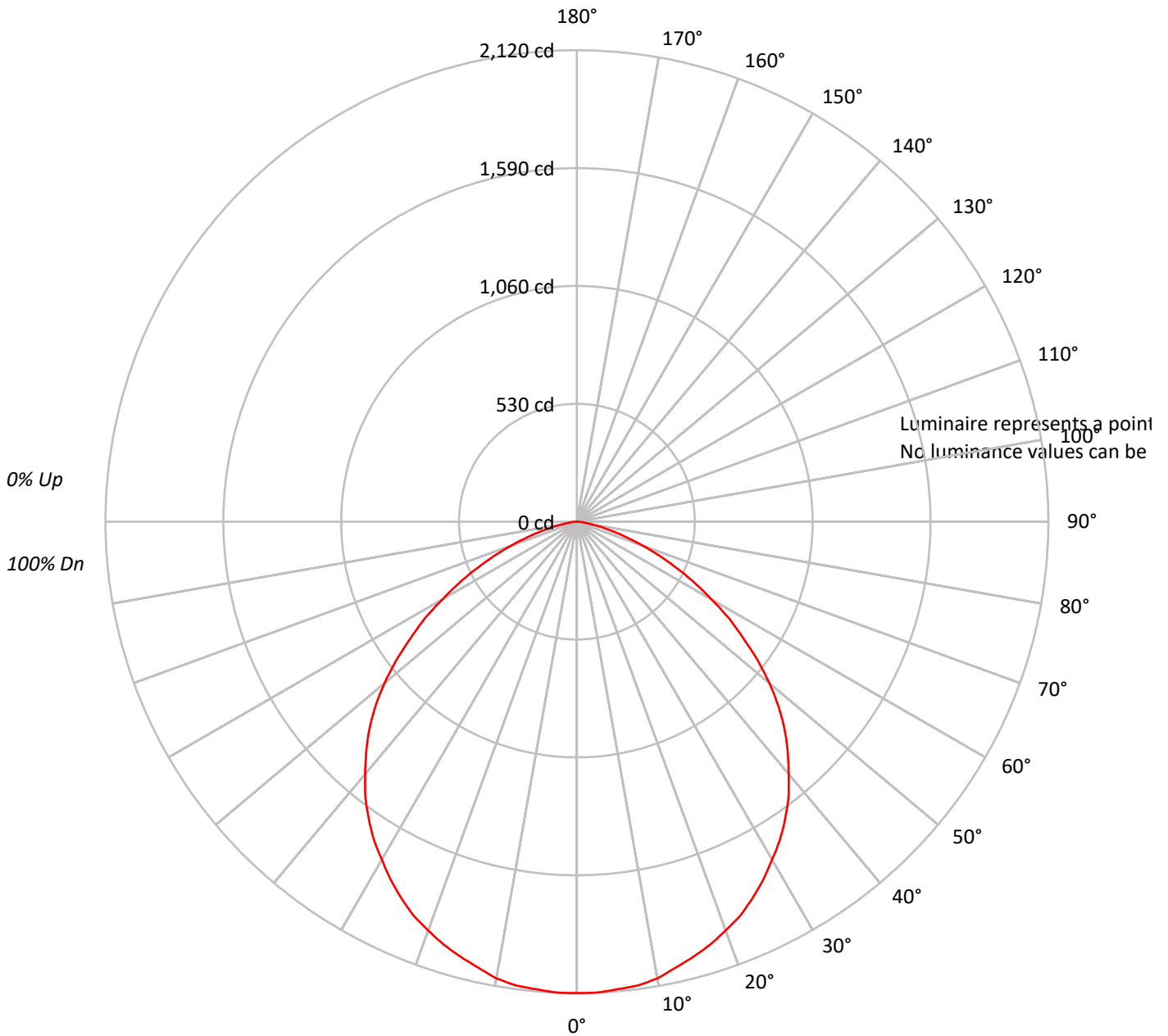
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.8	3.9
10°-20°	571.7	11.0
20°-30°	860.1	16.6
30°-40°	1019.3	19.6
40°-50°	1014.3	19.5
50°-60°	817.7	15.8
60°-70°	494.7	9.5
70°-80°	183.7	3.5
80°-90°	27.3	0.5
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°	1632.6	31.5
0°-40°	2651.9	51.1
0°-60°	4483.9	86.4
0°-90°	5189.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2120	
5°	2110	201
15°	2025	572
25°	1868	860
35°	1632	1019
45°	1321	1014
55°	912	818
65°	497	495
75°	167	184
85°	22	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2119.6
2.5°	2119.6
5°	2110.2
7.5°	2103.9
10°	2085.0
12.5°	2053.6
15°	2025.3
17.5°	1993.8
20°	1956.1
22.5°	1918.3
25°	1868.0
27.5°	1814.6
30°	1754.8
32.5°	1698.2
35°	1632.2
37.5°	1563.0
40°	1481.2
42.5°	1402.6
45°	1320.8
47.5°	1229.6
50°	1129.0
52.5°	1025.2
55°	912.0
57.5°	811.4
60°	698.1
62.5°	597.5
65°	496.9
67.5°	402.5
70°	314.5
72.5°	235.9
75°	166.7
77.5°	106.9
80°	62.9
82.5°	37.7
85°	22.0
87.5°	9.4
90°	0.0



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— 0°-180°







(END OF REPORT)