

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: P208020

Luminaire Tested: **LD4B50D010TE EU4B30509027 4LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208020  
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 EU4B30509027 4LBNMW1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3046.7 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

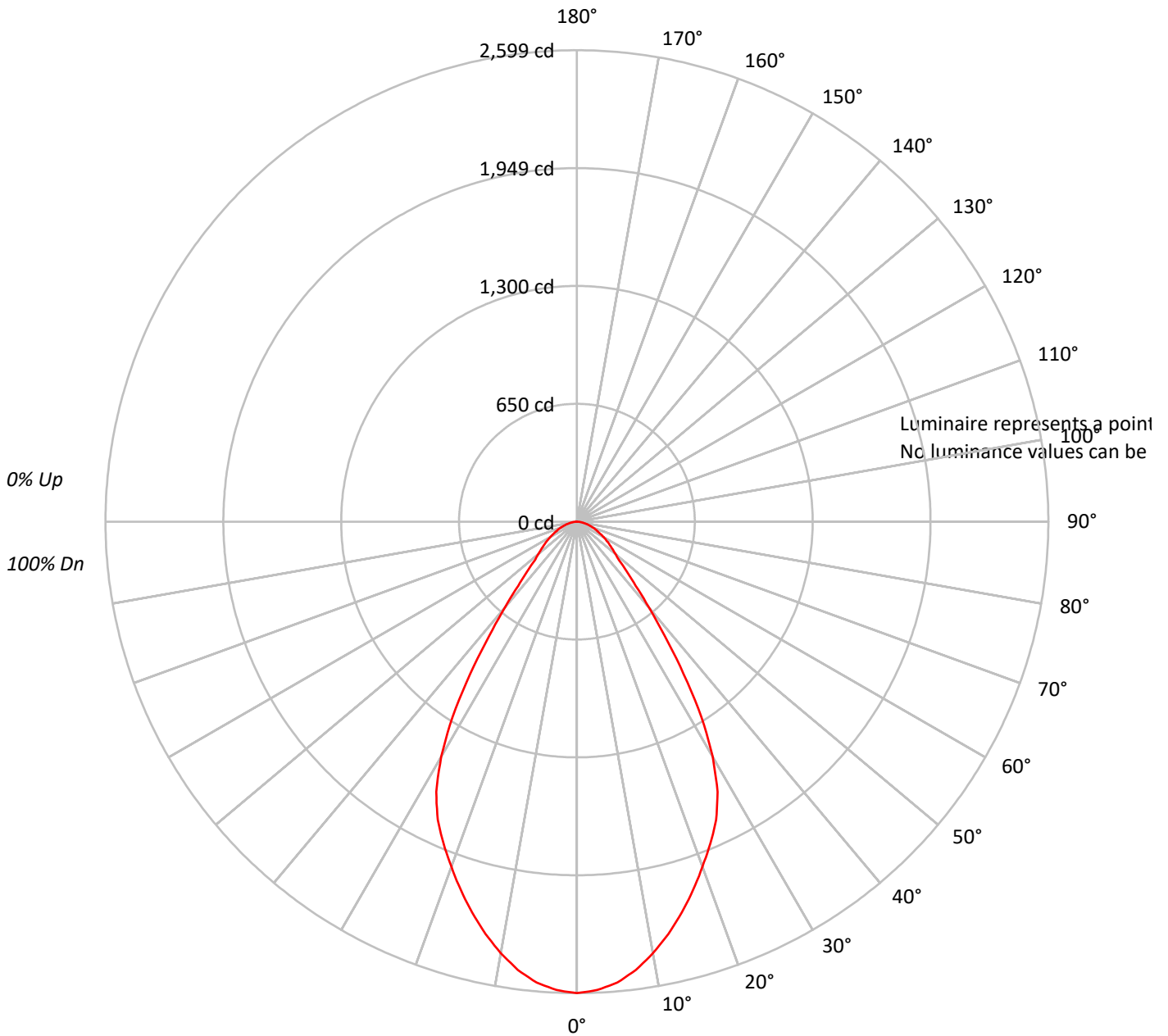
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73																			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48																			
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	7.8
10°-20°	625.6	20.5
20°-30°	823.4	27.0
30°-40°	641.0	21.0
40°-50°	311.3	10.2
50°-60°	196.7	6.5
60°-70°	126.8	4.2
70°-80°	66.3	2.2
80°-90°	16.4	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°	1688.2	55.4
0°-40°	2329.1	76.4
0°-60°	2837.1	93.1
0°-90°	3046.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3046.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2599	
5°	2551	239
15°	2231	626
25°	1815	823
35°	1026	641
45°	387	311
55°	218	197
65°	126	127
75°	63	66
85°	14	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2599.1
2.5°	2584.6
5°	2550.7
7.5°	2492.7
10°	2415.2
12.5°	2328.1
15°	2231.3
17.5°	2129.7
20°	2023.2
22.5°	1921.5
25°	1815.0
27.5°	1679.5
30°	1495.6
32.5°	1277.8
35°	1026.1
37.5°	793.8
40°	614.7
42.5°	479.2
45°	387.2
47.5°	314.6
50°	275.9
52.5°	246.8
55°	217.8
57.5°	193.6
60°	169.4
62.5°	145.2
65°	125.8
67.5°	111.3
70°	92.0
72.5°	77.4
75°	62.9
77.5°	48.4
80°	33.9
82.5°	24.2
85°	14.5
87.5°	4.8
90°	0.0



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— 0°-180°







(END OF REPORT)