

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: P206468

Luminaire Tested: **LD4B50D010TE EU4B30508027 4LBCSMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206468  
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 4LBCSMB1  
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4859.5 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

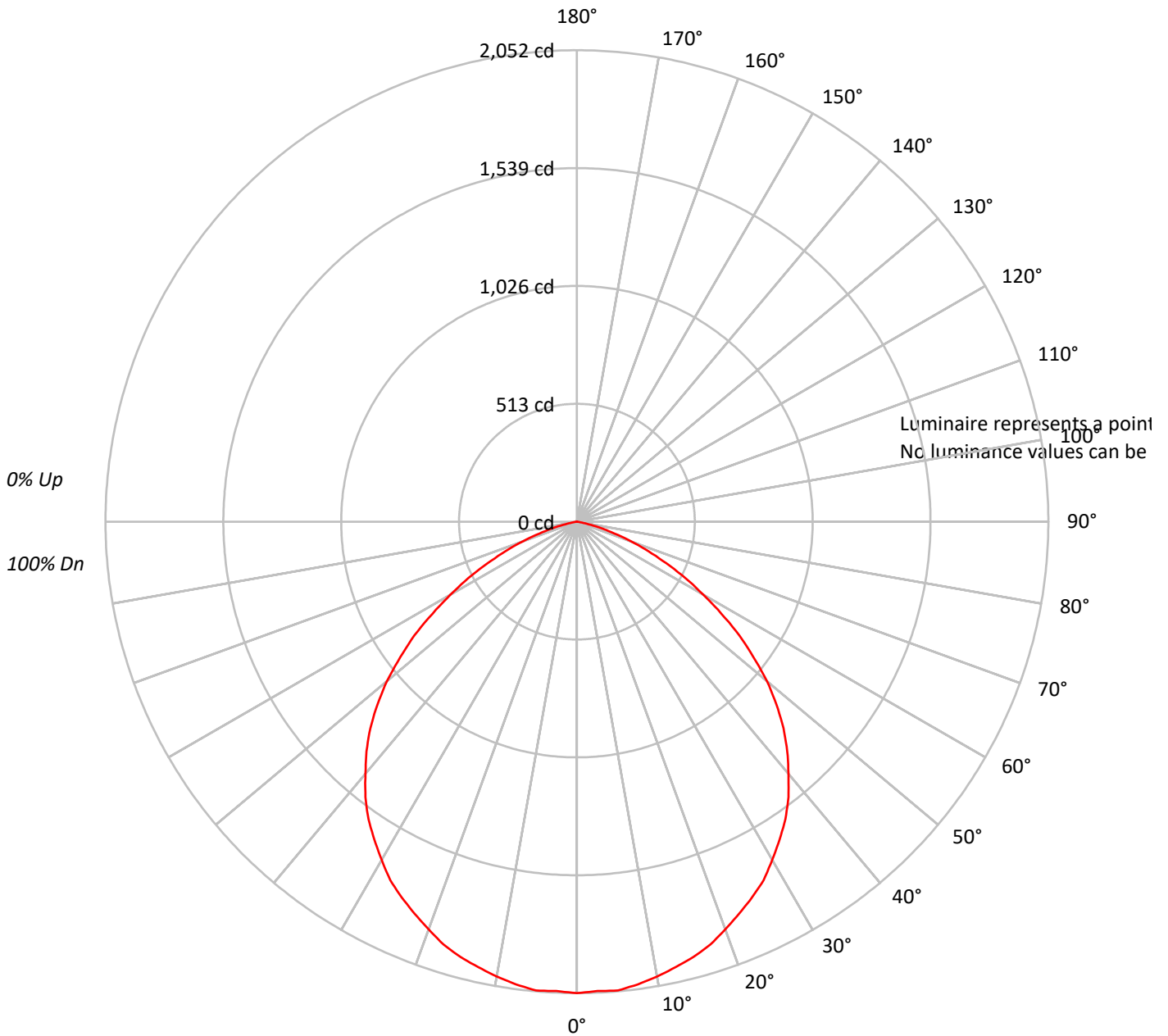
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			28

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.1	4.0
10°-20°	552.9	11.4
20°-30°	831.2	17.1
30°-40°	986.3	20.3
40°-50°	976.0	20.1
50°-60°	766.6	15.8
60°-70°	429.8	8.8
70°-80°	120.7	2.5
80°-90°	1.9	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°	1578.2	32.5
0°-40°	2564.5	52.8
0°-60°	4307.1	88.6
0°-90°	4859.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4859.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2052	
5°	2048	194
15°	1961	553
25°	1805	831
35°	1582	986
45°	1272	976
55°	864	767
65°	428	430
75°	104	121
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2052.0
2.5°	2045.0
5°	2048.5
7.5°	2031.1
10°	2010.2
12.5°	1985.8
15°	1961.4
17.5°	1930.1
20°	1888.2
22.5°	1846.4
25°	1804.6
27.5°	1759.3
30°	1700.1
32.5°	1640.9
35°	1581.7
37.5°	1512.0
40°	1431.9
42.5°	1355.2
45°	1271.6
47.5°	1177.5
50°	1080.0
52.5°	968.5
55°	864.0
57.5°	745.5
60°	634.1
62.5°	533.0
65°	428.5
67.5°	337.9
70°	250.8
72.5°	170.7
75°	104.5
77.5°	52.3
80°	13.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)