

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: P206789

Luminaire Tested: **LD4B50D010TE EU4B30509727 4LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206789  
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 EU4B30509727 4LBWWH1  
Description: PORTFOLIO 4 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH WHEAT TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3222.3 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

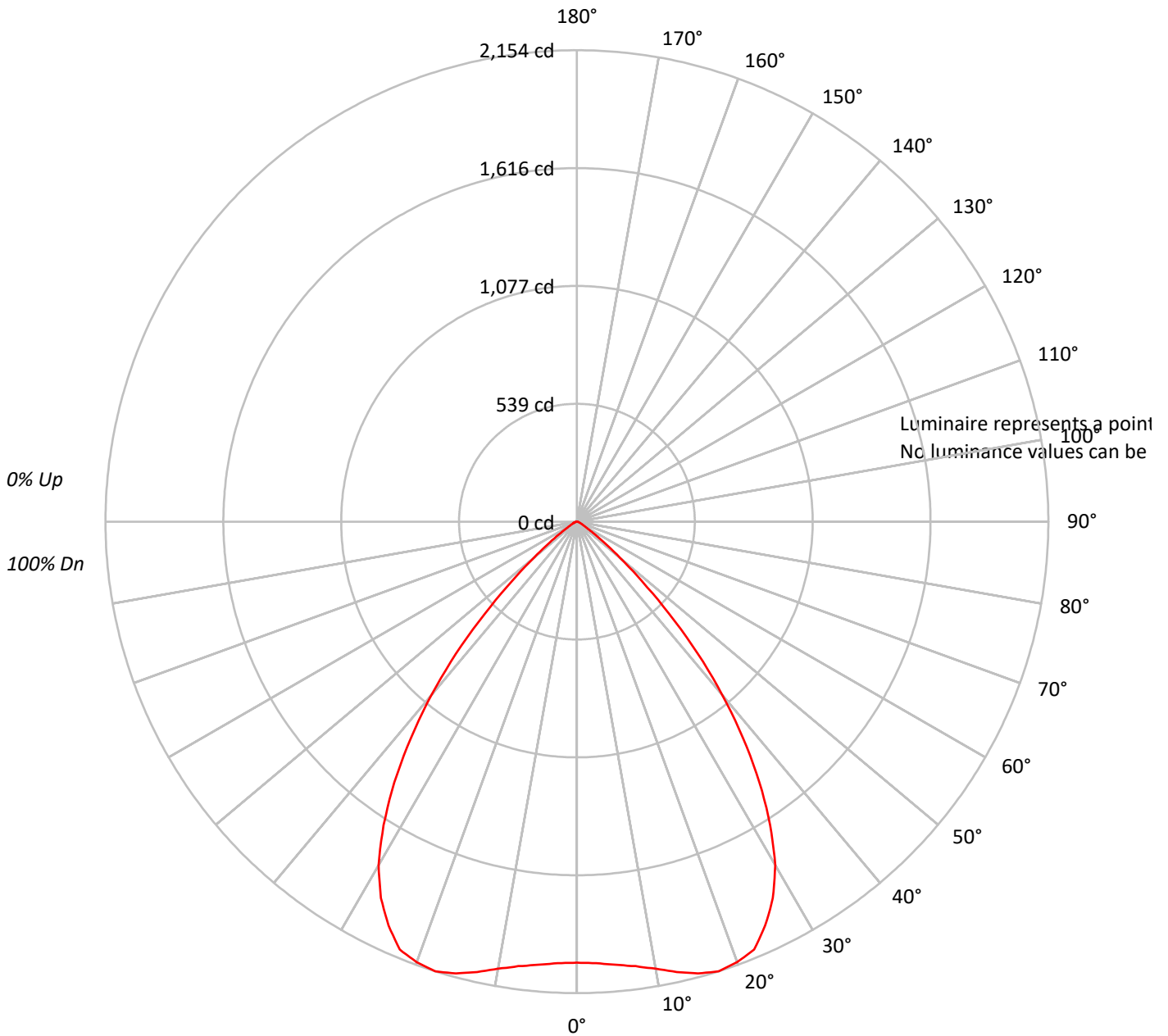
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92						92													
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84						84													
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76						76													
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69						69													
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63						63													
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58						58													
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53						53													
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49						49													
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45						45													
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41						41													

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.2	6.1
10°-20°	603.9	18.7
20°-30°	928.9	28.8
30°-40°	896.3	27.8
40°-50°	467.3	14.5
50°-60°	98.4	3.1
60°-70°	22.9	0.7
70°-80°	8.8	0.3
80°-90°	0.6	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°	1728.1	53.6
0°-40°	2624.3	81.4
0°-60°	3190.0	99.0
0°-90°	3222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3222.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2015	
5°	2032	195
15°	2137	604
25°	2036	929
35°	1454	896
45°	594	467
55°	88	98
65°	21	23
75°	8	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2014.7
2.5°	2019.0
5°	2031.6
7.5°	2048.5
10°	2073.8
12.5°	2107.5
15°	2137.0
17.5°	2153.8
20°	2141.2
22.5°	2115.9
25°	2035.8
27.5°	1938.9
30°	1812.4
32.5°	1643.8
35°	1454.2
37.5°	1247.6
40°	1032.7
42.5°	817.7
45°	594.3
47.5°	400.4
50°	257.1
52.5°	156.0
55°	88.5
57.5°	54.8
60°	37.9
62.5°	29.5
65°	21.1
67.5°	16.9
70°	12.6
72.5°	12.6
75°	8.4
77.5°	4.2
80°	4.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)