

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: P206375

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBCEMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P206375  
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 EU4B30509040 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: 4707.5 lumens  
Efficiency: N/A  
Efficacy: 80.1 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

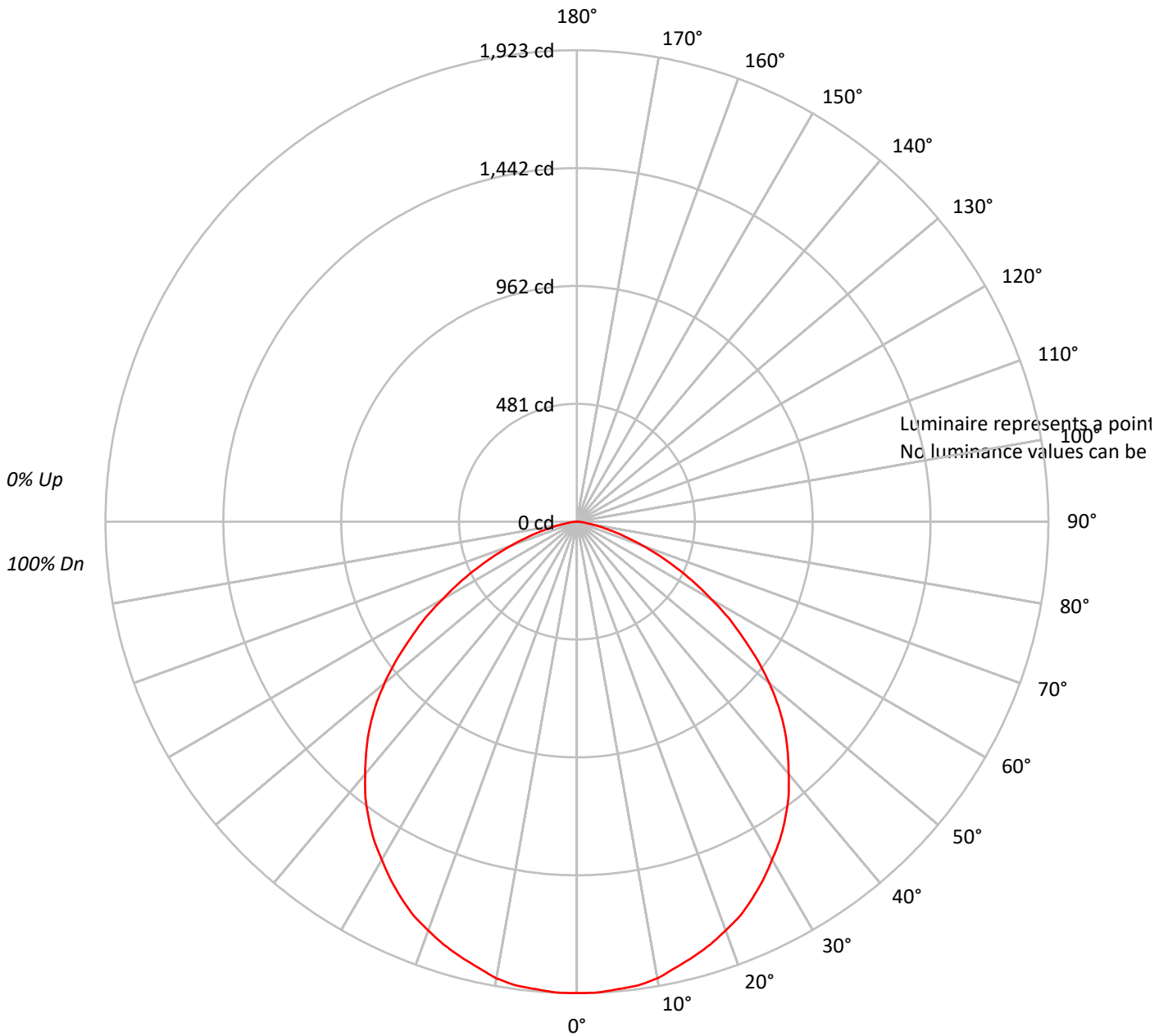
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	182.2	3.9
10°-20°	518.6	11.0
20°-30°	780.2	16.6
30°-40°	924.6	19.6
40°-50°	920.1	19.5
50°-60°	741.8	15.8
60°-70°	448.7	9.5
70°-80°	166.6	3.5
80°-90°	24.8	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°	1480.9	31.5
0°-40°	2405.5	51.1
0°-60°	4067.4	86.4
0°-90°	4707.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1923	
5°	1914	182
15°	1837	519
25°	1694	780
35°	1480	925
45°	1198	920
55°	827	742
65°	451	449
75°	151	167
85°	20	25
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1922.7
2.5°	1922.7
5°	1914.1
7.5°	1908.4
10°	1891.3
12.5°	1862.8
15°	1837.1
17.5°	1808.6
20°	1774.3
22.5°	1740.1
25°	1694.5
27.5°	1646.0
30°	1591.8
32.5°	1540.4
35°	1480.5
37.5°	1417.8
40°	1343.6
42.5°	1272.3
45°	1198.1
47.5°	1115.4
50°	1024.1
52.5°	930.0
55°	827.3
57.5°	736.0
60°	633.3
62.5°	542.0
65°	450.7
67.5°	365.1
70°	285.3
72.5°	213.9
75°	151.2
77.5°	97.0
80°	57.1
82.5°	34.2
85°	20.0
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)