

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: P207714

Luminaire Tested: **LD4B50D010TE EU4B30509040 4LBNH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207714  
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 4LBNH1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2819.5 lumens  
Efficiency: N/A  
Efficacy: 48.0 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

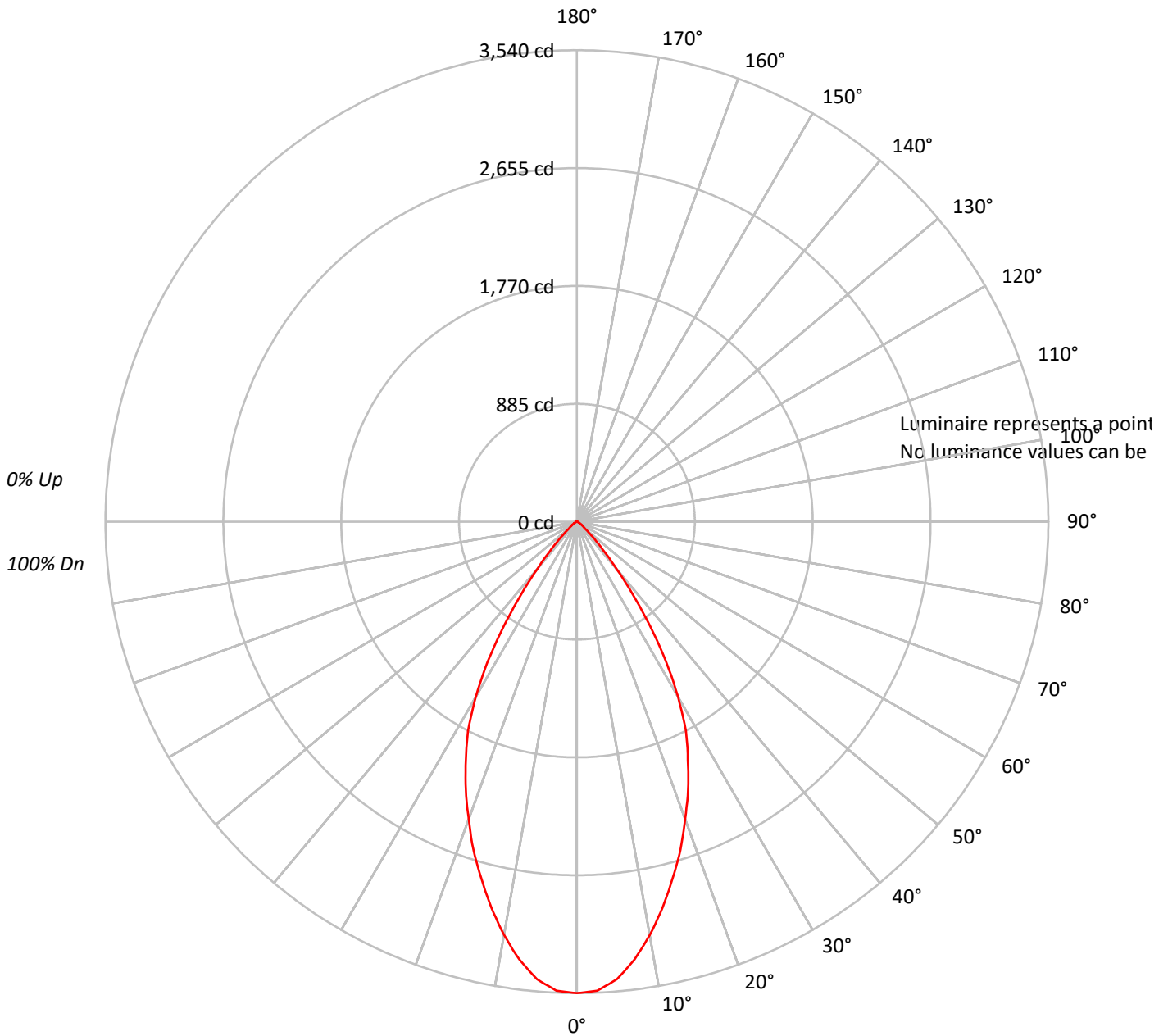
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																																				
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																																				
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																																				
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																																				
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																																				
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																																				
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																																				
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																																				
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54																																				
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																																				

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.4	11.3
10°-20°	774.8	27.5
20°-30°	899.5	31.9
30°-40°	595.7	21.1
40°-50°	167.1	5.9
50°-60°	42.0	1.5
60°-70°	15.7	0.6
70°-80°	5.4	0.2
80°-90°	0.0	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°	1993.7	70.7
0°-40°	2589.3	91.8
0°-60°	2798.4	99.3
0°-90°	2819.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2819.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3540	
5°	3448	319
15°	2774	775
25°	1972	899
35°	955	596
45°	194	167
55°	46	42
65°	15	16
75°	5	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3540.0
2.5°	3524.7
5°	3448.0
7.5°	3315.2
10°	3151.8
12.5°	2967.9
15°	2773.8
17.5°	2584.8
20°	2375.3
22.5°	2181.2
25°	1971.8
27.5°	1772.6
30°	1517.1
32.5°	1246.4
35°	955.2
37.5°	684.5
40°	464.8
42.5°	301.4
45°	194.1
47.5°	117.5
50°	76.6
52.5°	56.2
55°	46.0
57.5°	35.8
60°	25.5
62.5°	20.4
65°	15.3
67.5°	10.2
70°	10.2
72.5°	5.1
75°	5.1
77.5°	5.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)