

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: P207971

Luminaire Tested: **LD4B15D010 EU4B10209040 4LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207971  
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: LD4B15D010 EU4B10209040 4LBNMW1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W  
DL3-15.28W DLE-15.432W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 925.8 lumens  
Efficiency: N/A  
Efficacy: 64.7 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

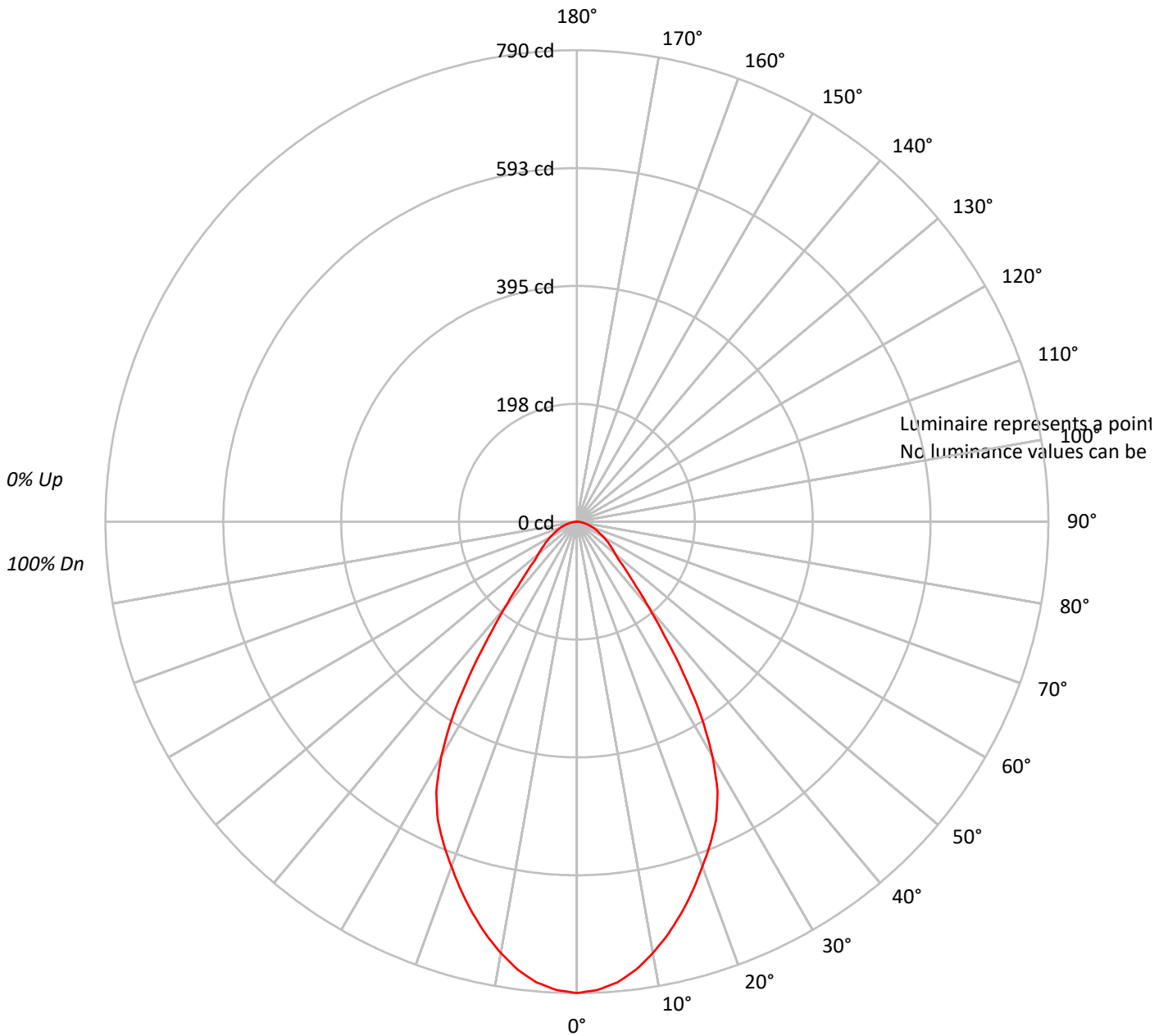
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	72.7	7.8
10°-20°	190.1	20.5
20°-30°	250.2	27.0
30°-40°	194.8	21.0
40°-50°	94.6	10.2
50°-60°	59.8	6.5
60°-70°	38.5	4.2
70°-80°	20.1	2.2
80°-90°	5.0	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°	513.0	55.4
0°-40°	707.7	76.4
0°-60°	862.1	93.1
0°-90°	925.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	790	
5°	775	73
15°	678	190
25°	552	250
35°	312	195
45°	118	95
55°	66	60
65°	38	39
75°	19	20
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	789.8
2.5°	785.4
5°	775.1
7.5°	757.4
10°	733.9
12.5°	707.4
15°	678.0
17.5°	647.1
20°	614.8
22.5°	583.9
25°	551.5
27.5°	510.3
30°	454.5
32.5°	388.3
35°	311.8
37.5°	241.2
40°	186.8
42.5°	145.6
45°	117.7
47.5°	95.6
50°	83.8
52.5°	75.0
55°	66.2
57.5°	58.8
60°	51.5
62.5°	44.1
65°	38.2
67.5°	33.8
70°	27.9
72.5°	23.5
75°	19.1
77.5°	14.7
80°	10.3
82.5°	7.4
85°	4.4
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)