

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: P207581

Luminaire Tested: **LD4B30D010 EU4B30509024 4LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207581  
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: LD4B30D010 EU4B30509024 4LBMMW1  
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-27.4W DE010-27.95W D5LT-27.65W DMX-27.73W DL2-29.56W  
DL3-29.67W DLE-29.73W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1650.3 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

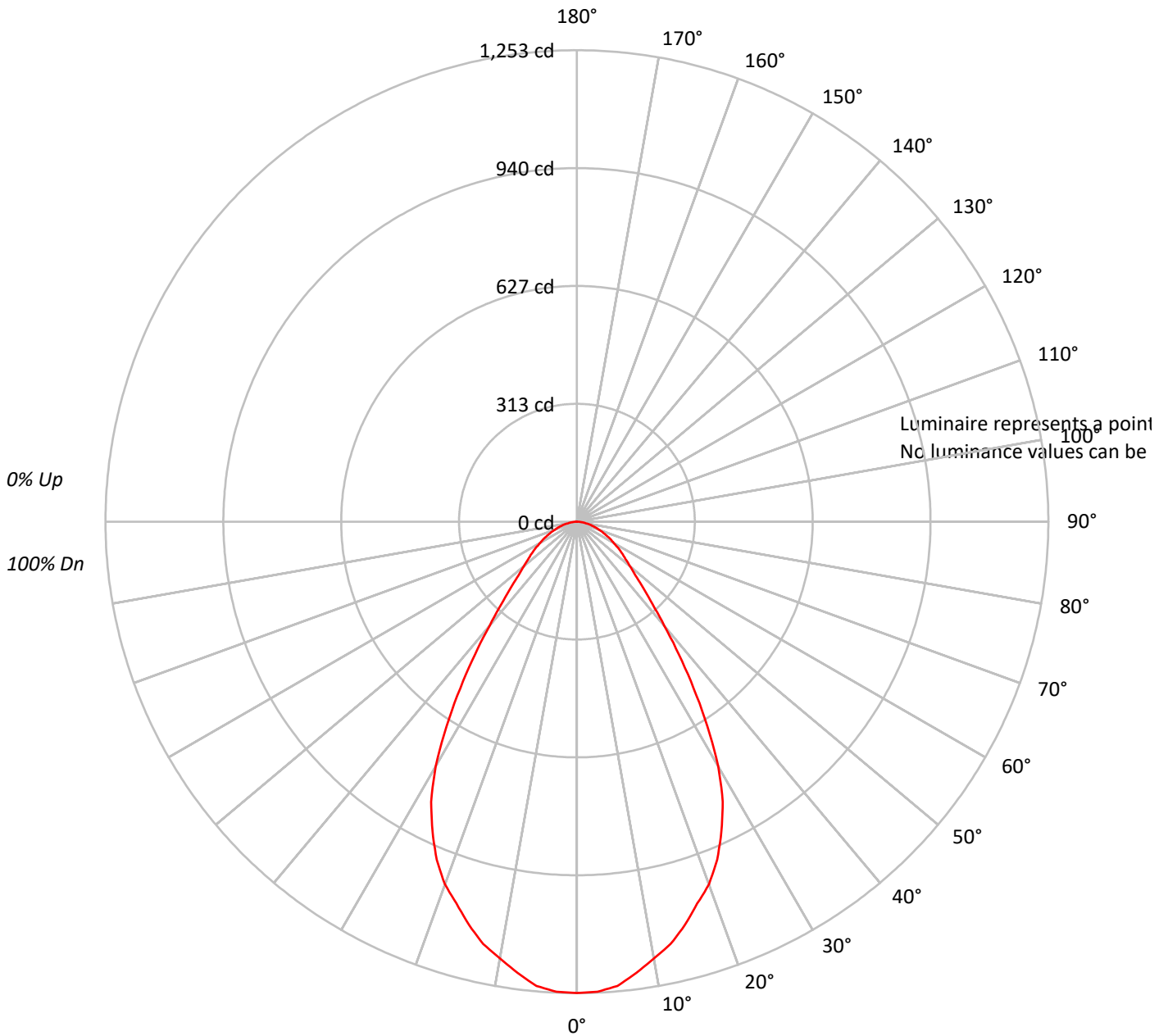
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42			
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39			

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	7.0
10°-20°	311.3	18.9
20°-30°	413.9	25.1
30°-40°	338.5	20.5
40°-50°	197.2	11.9
50°-60°	130.8	7.9
60°-70°	86.0	5.2
70°-80°	45.4	2.7
80°-90°	11.1	0.7
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°	841.4	51.0
0°-40°	1179.9	71.5
0°-60°	1507.9	91.4
0°-90°	1650.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1253	
5°	1238	116
15°	1109	311
25°	908	414
35°	540	339
45°	249	197
55°	146	131
65°	86	86
75°	43	45
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1252.8
2.5°	1250.4
5°	1238.5
7.5°	1209.8
10°	1178.7
12.5°	1150.0
15°	1109.4
17.5°	1063.9
20°	1025.7
22.5°	973.1
25°	908.5
27.5°	839.2
30°	750.7
32.5°	645.5
35°	540.3
37.5°	444.7
40°	361.0
42.5°	296.5
45°	248.6
47.5°	210.4
50°	184.1
52.5°	162.6
55°	145.8
57.5°	129.1
60°	112.4
62.5°	100.4
65°	86.1
67.5°	74.1
70°	62.2
72.5°	52.6
75°	43.0
77.5°	33.5
80°	23.9
82.5°	16.7
85°	9.6
87.5°	2.4
90°	0.0



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— 0°-180°







(END OF REPORT)