

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: P207586

Luminaire Tested: **LD4B30D010 EU4B30509050 4LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P207586  
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 EU4B30509050 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: 1990.4 lumens  
Efficiency: N/A  
Efficacy: 71.1 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

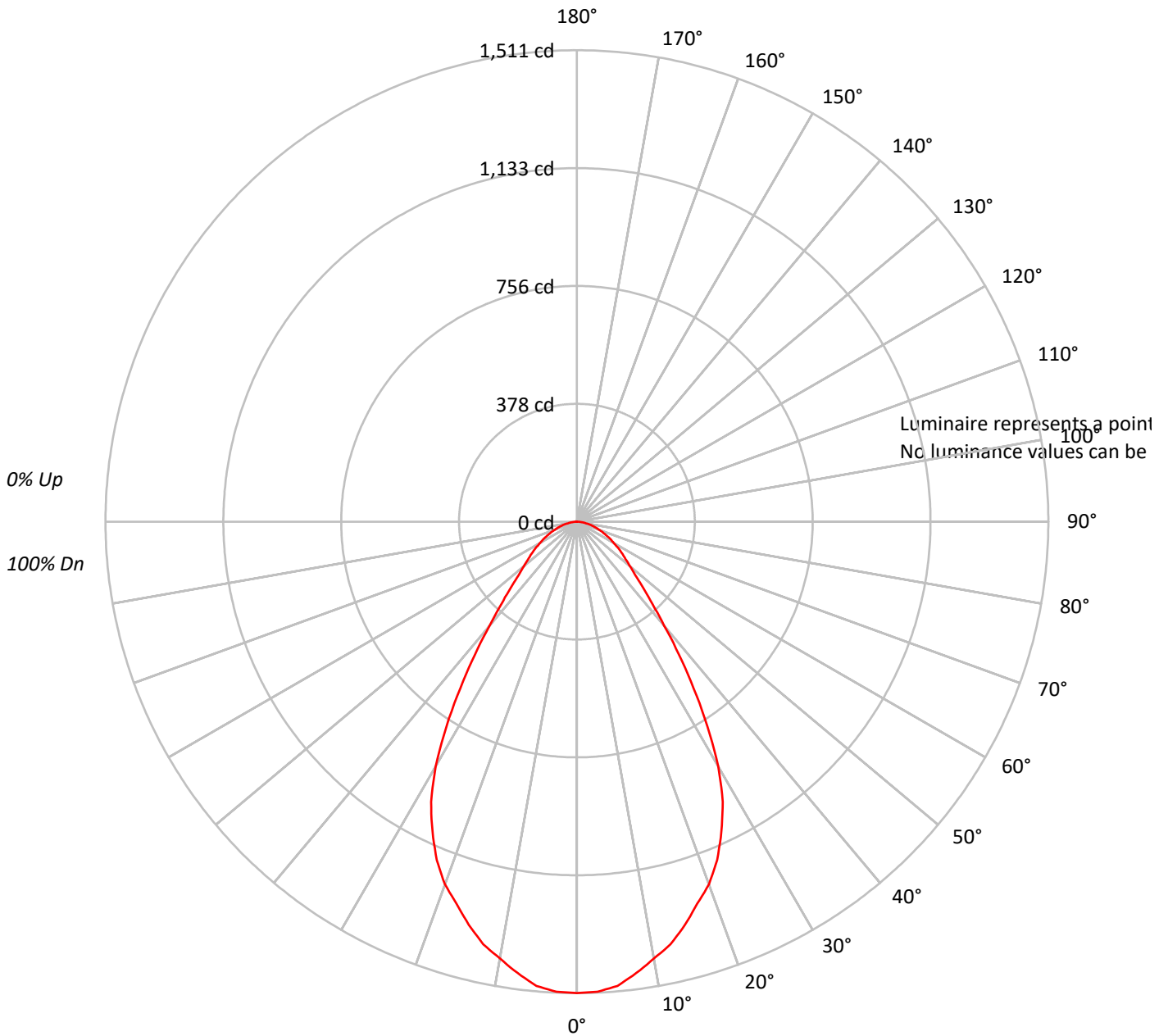
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	140.1	7.0
10°-20°	375.4	18.9
20°-30°	499.2	25.1
30°-40°	408.3	20.5
40°-50°	237.8	11.9
50°-60°	157.7	7.9
60°-70°	103.7	5.2
70°-80°	54.7	2.7
80°-90°	13.3	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°	1014.7	51.0
0°-40°	1423.0	71.5
0°-60°	1818.6	91.4
0°-90°	1990.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1511	
5°	1494	140
15°	1338	375
25°	1096	499
35°	652	408
45°	300	238
55°	176	158
65°	104	104
75°	52	55
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1511.0
2.5°	1508.1
5°	1493.6
7.5°	1459.0
10°	1421.6
12.5°	1387.0
15°	1337.9
17.5°	1283.2
20°	1237.0
22.5°	1173.6
25°	1095.7
27.5°	1012.1
30°	905.4
32.5°	778.5
35°	651.7
37.5°	536.3
40°	435.4
42.5°	357.6
45°	299.9
47.5°	253.7
50°	222.0
52.5°	196.1
55°	175.9
57.5°	155.7
60°	135.5
62.5°	121.1
65°	103.8
67.5°	89.4
70°	75.0
72.5°	63.4
75°	51.9
77.5°	40.4
80°	28.8
82.5°	20.2
85°	11.5
87.5°	2.9
90°	0.0



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— 0°-180°







(END OF REPORT)