

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: P252014

Luminaire Tested: **LD4B30D010 EU4B30508040 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-3)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B30D010 EU4B30508040 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3619.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct

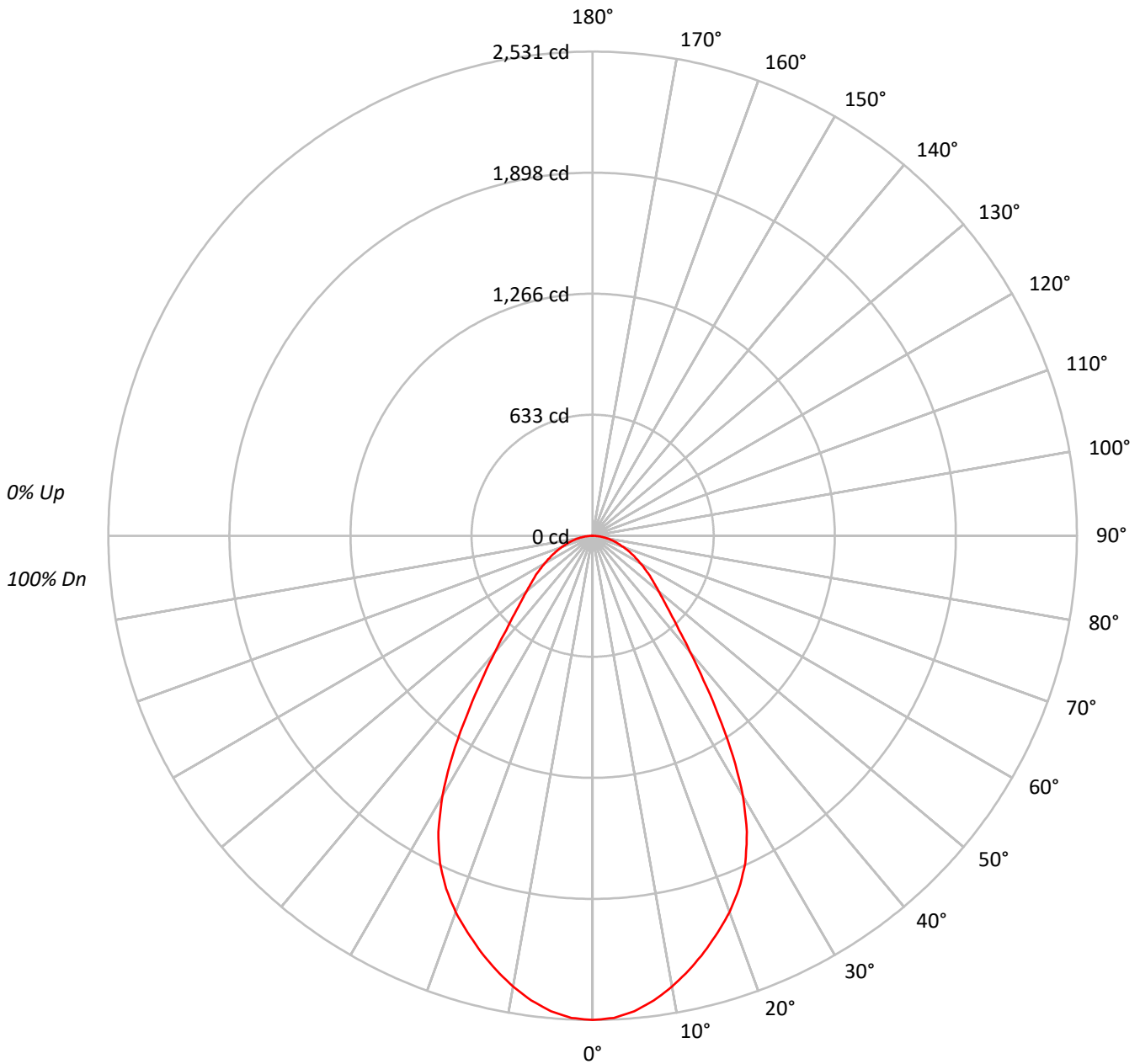
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43			
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			

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

	0°
0°	246657
5°	244126
10°	236805
15°	227299
20°	217071
25°	203001
30°	176702
35°	136356
40°	100887
45°	79388
50°	68198
55°	62001
60°	56526
65°	52324
70°	48327
75°	45299
80°	42093
85°	39696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.9	6.5
10°-20°	633.1	17.5
20°-30°	856.7	23.7
30°-40°	719.8	19.9
40°-50°	455.5	12.6
50°-60°	327.2	9.0
60°-70°	225.2	6.2
70°-80°	127.5	3.5
80°-90°	39.2	1.1
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°	1724.7	47.7
0°-40°	2444.5	67.5
0°-60°	3227.2	89.2
0°-90°	3619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2531	
5°	2495	235
15°	2253	633
25°	1888	857
35°	1146	720
45°	576	456
55°	365	327
65°	227	225
75°	120	127
85°	36	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2530.9
2.5°	2523.0
5°	2495.4
7.5°	2450.1
10°	2392.9
12.5°	2325.8
15°	2252.8
17.5°	2173.9
20°	2093.0
22.5°	1998.3
25°	1887.8
27.5°	1745.8
30°	1570.2
32.5°	1365.1
35°	1146.1
37.5°	952.8
40°	793.0
42.5°	668.7
45°	576.0
47.5°	505.0
50°	449.8
52.5°	404.4
55°	364.9
57.5°	325.5
60°	290.0
62.5°	256.4
65°	226.9
67.5°	197.3
70°	169.6
72.5°	144.0
75°	120.3
77.5°	96.7
80°	75.0
82.5°	55.2
85°	35.5
87.5°	15.8
90°	0.0



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— 0°-180°







(END OF REPORT)