

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: P252013

Luminaire Tested: **LD4B30D010 EU4B30508035 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252013  
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 EU4B30508035 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3581.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 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

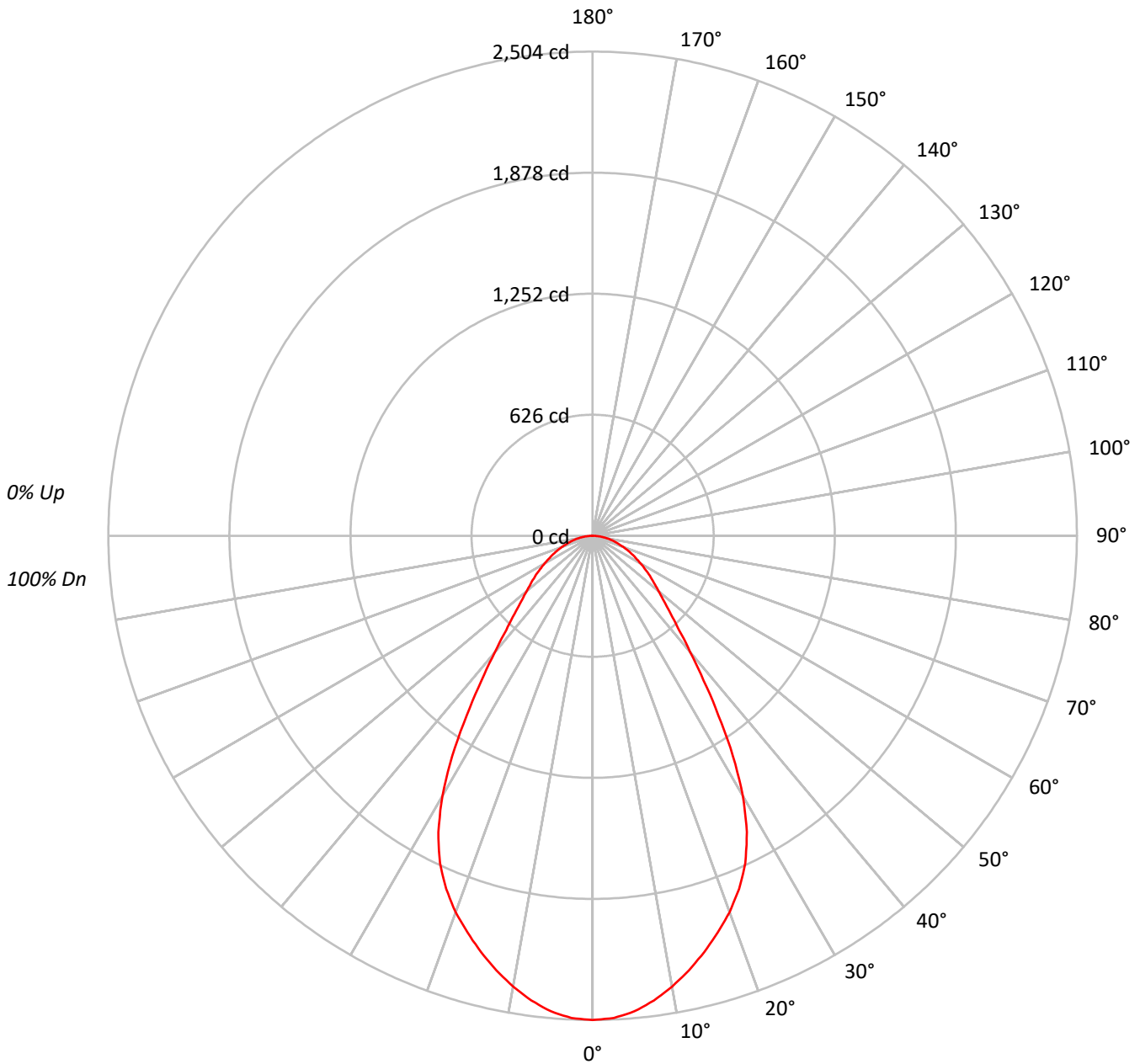
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	244074
5°	241563
10°	234311
15°	224907
20°	214789
25°	200872
30°	174857
35°	134929
40°	99831
45°	78561
50°	67470
55°	61356
60°	55921
65°	51771
70°	47843
75°	44847
80°	41644
85°	39249



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.4	6.5
10°-20°	626.5	17.5
20°-30°	847.7	23.7
30°-40°	712.3	19.9
40°-50°	450.7	12.6
50°-60°	323.7	9.0
60°-70°	222.8	6.2
70°-80°	126.1	3.5
80°-90°	38.8	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°	1706.6	47.7
0°-40°	2418.9	67.5
0°-60°	3193.3	89.2
0°-90°	3581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3581.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2504	
5°	2469	232
15°	2229	626
25°	1868	848
35°	1134	712
45°	570	451
55°	361	324
65°	224	223
75°	119	126
85°	35	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2504.4
2.5°	2496.6
5°	2469.2
7.5°	2424.3
10°	2367.7
12.5°	2301.4
15°	2229.1
17.5°	2151.1
20°	2071.0
22.5°	1977.3
25°	1868.0
27.5°	1727.5
30°	1553.8
32.5°	1350.8
35°	1134.1
37.5°	942.8
40°	784.7
42.5°	661.7
45°	570.0
47.5°	499.7
50°	445.0
52.5°	400.2
55°	361.1
57.5°	322.1
60°	286.9
62.5°	253.8
65°	224.5
67.5°	195.2
70°	167.9
72.5°	142.5
75°	119.1
77.5°	95.6
80°	74.2
82.5°	54.7
85°	35.1
87.5°	15.6
90°	0.0



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— 0°-180°







(END OF REPORT)