

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: P252021

Luminaire Tested: **LD4B30D010 EU4B30509050 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252021  
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 EU4B30509050 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3045.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 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

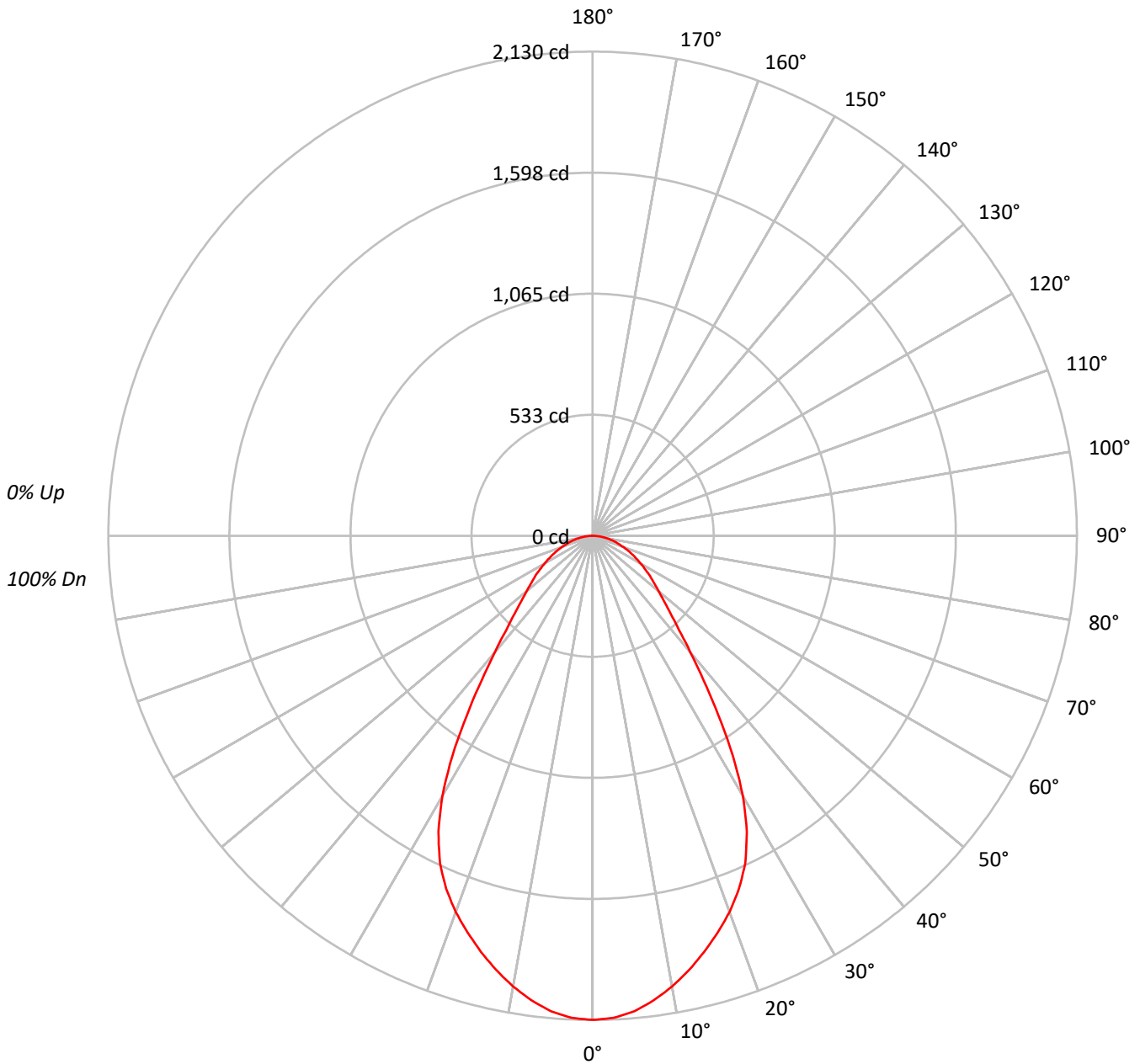
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	207537
5°	205405
10°	199239
15°	191248
20°	182638
25°	170806
30°	148681
35°	114727
40°	84883
45°	66805
50°	57372
55°	52180
60°	47560
65°	44023
70°	40662
75°	38107
80°	35414
85°	33434



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.6	6.5
10°-20°	532.7	17.5
20°-30°	720.8	23.7
30°-40°	605.7	19.9
40°-50°	383.3	12.6
50°-60°	275.3	9.0
60°-70°	189.5	6.2
70°-80°	107.2	3.5
80°-90°	33.0	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°	1451.1	47.7
0°-40°	2056.8	67.5
0°-60°	2715.4	89.2
0°-90°	3045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2130	
5°	2100	198
15°	1896	533
25°	1588	721
35°	964	606
45°	485	383
55°	307	275
65°	191	189
75°	101	107
85°	30	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2129.5
2.5°	2122.9
5°	2099.6
7.5°	2061.5
10°	2013.3
12.5°	1956.9
15°	1895.5
17.5°	1829.1
20°	1761.0
22.5°	1681.4
25°	1588.4
27.5°	1468.9
30°	1321.2
32.5°	1148.6
35°	964.3
37.5°	801.7
40°	667.2
42.5°	562.7
45°	484.7
47.5°	424.9
50°	378.4
52.5°	340.3
55°	307.1
57.5°	273.9
60°	244.0
62.5°	215.8
65°	190.9
67.5°	166.0
70°	142.7
72.5°	121.2
75°	101.2
77.5°	81.3
80°	63.1
82.5°	46.5
85°	29.9
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)