

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: P252044

Luminaire Tested: **LD4B50D010TE EU4B30509030 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252044  
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: LD4B50D010TE EU4B30509030 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5316.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

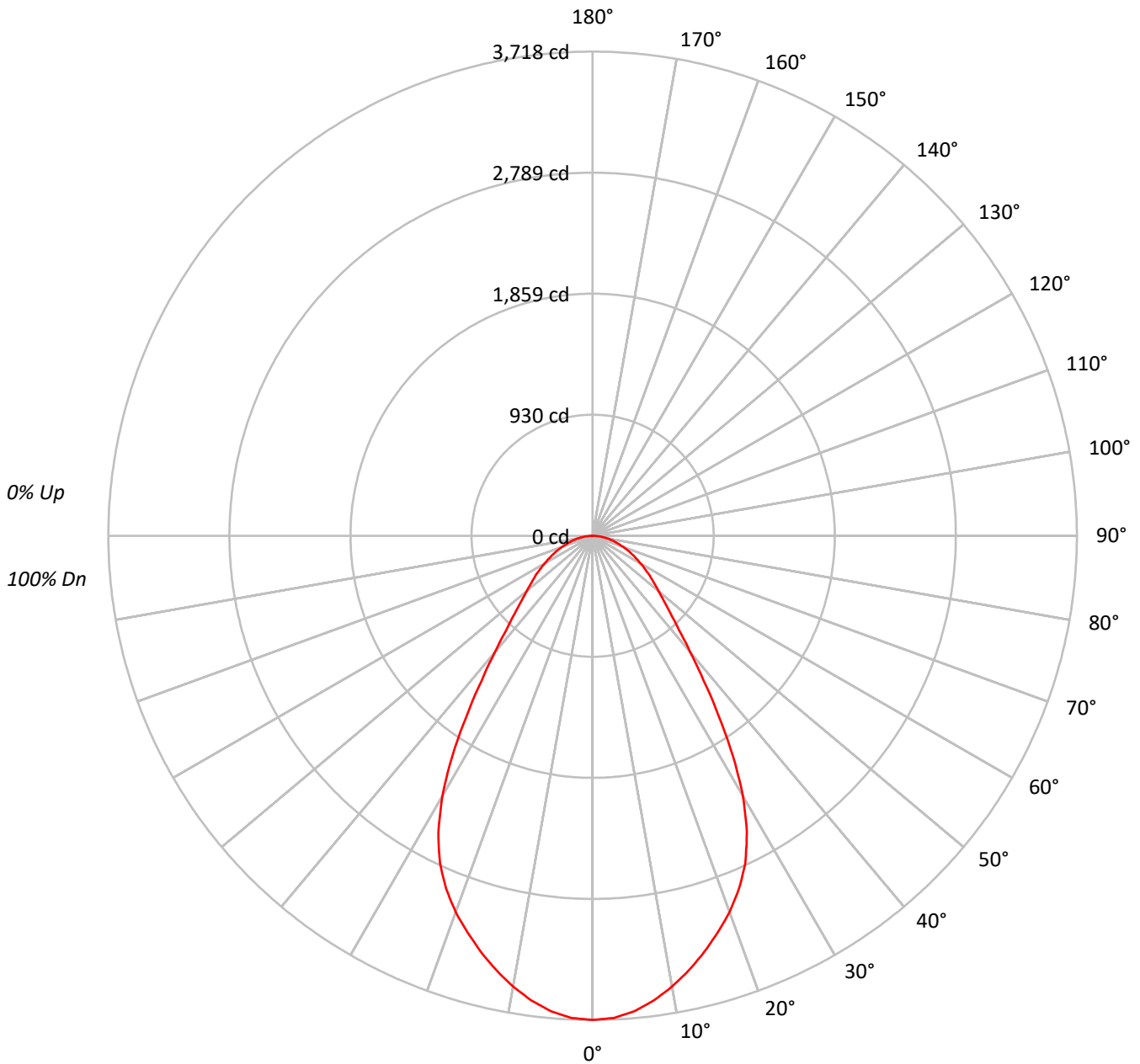
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43				43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37				37

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

	0°
0°	362320
5°	358607
10°	347840
15°	333885
20°	318854
25°	298200
30°	259573
35°	200305
40°	148201
45°	116615
50°	100174
55°	91090
60°	83034
65°	76838
70°	71009
75°	66574
80°	61792
85°	58370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.0	6.5
10°-20°	930.0	17.5
20°-30°	1258.4	23.7
30°-40°	1057.4	19.9
40°-50°	669.1	12.6
50°-60°	480.6	9.0
60°-70°	330.7	6.2
70°-80°	187.2	3.5
80°-90°	57.6	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°	2533.4	47.7
0°-40°	3590.8	67.5
0°-60°	4740.5	89.2
0°-90°	5316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5316.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3718	
5°	3666	345
15°	3309	930
25°	2773	1258
35°	1684	1057
45°	846	669
55°	536	481
65°	333	331
75°	177	187
85°	52	58
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3717.7
2.5°	3706.1
5°	3665.6
7.5°	3598.9
10°	3514.9
12.5°	3416.4
15°	3309.2
17.5°	3193.3
20°	3074.4
22.5°	2935.4
25°	2773.1
27.5°	2564.5
30°	2306.6
32.5°	2005.2
35°	1683.6
37.5°	1399.6
40°	1164.9
42.5°	982.3
45°	846.1
47.5°	741.8
50°	660.7
52.5°	594.0
55°	536.1
57.5°	478.1
60°	426.0
62.5°	376.7
65°	333.2
67.5°	289.8
70°	249.2
72.5°	211.5
75°	176.8
77.5°	142.0
80°	110.1
82.5°	81.1
85°	52.2
87.5°	23.2
90°	0.0



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— 0°-180°







(END OF REPORT)