

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: P252040

Luminaire Tested: **LD4B50D010TE EU4B30508040 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252040  
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 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: 6448.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

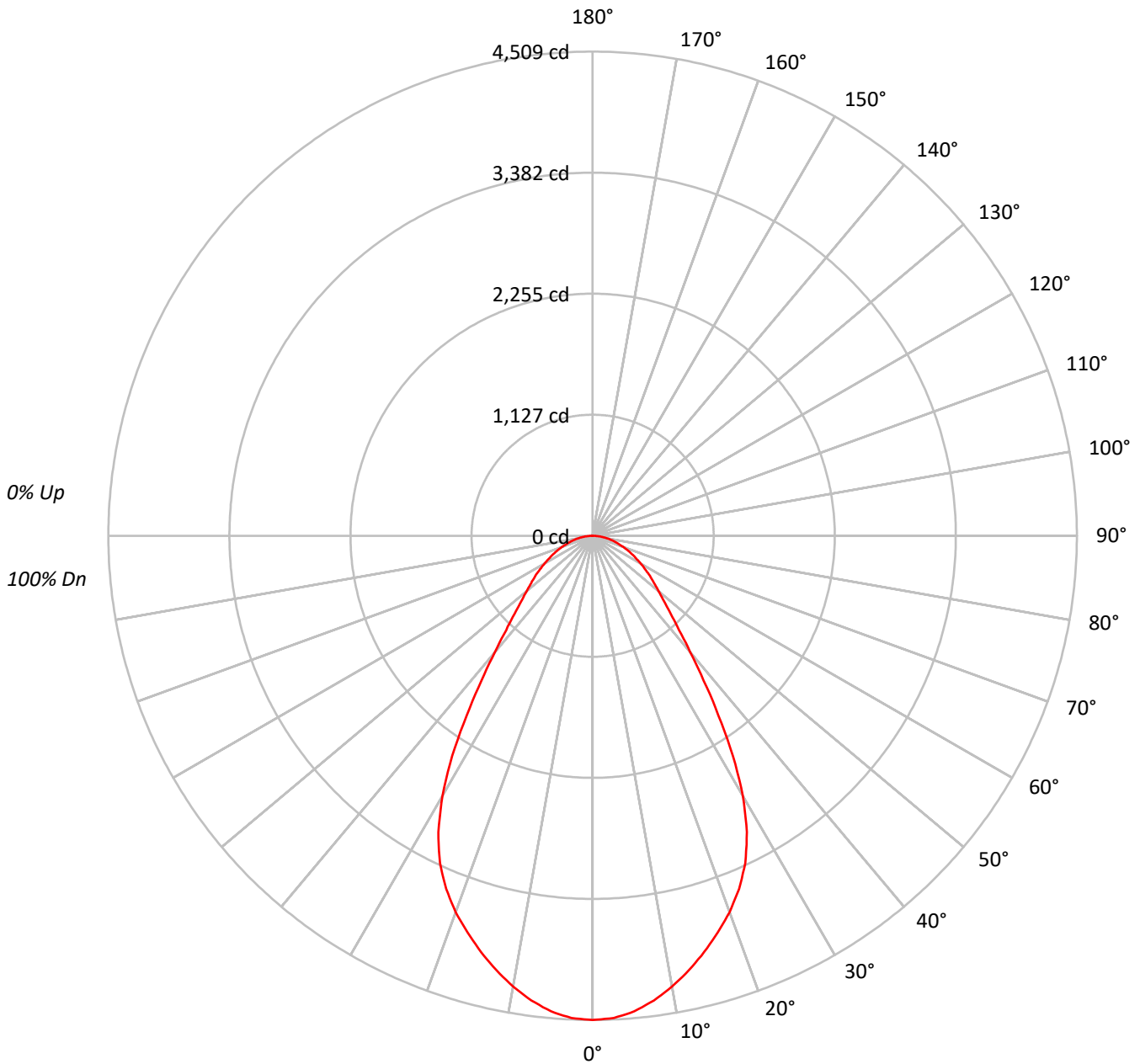
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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°	439477
5°	434964
10°	421913
15°	404976
20°	386755
25°	361698
30°	314839
35°	242958
40°	179753
45°	141451
50°	121507
55°	110477
60°	100713
65°	93211
70°	86140
75°	80732
80°	74981
85°	70782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.5	6.5
10°-20°	1128.0	17.5
20°-30°	1526.4	23.7
30°-40°	1282.6	19.9
40°-50°	811.6	12.6
50°-60°	582.9	9.0
60°-70°	401.2	6.2
70°-80°	227.1	3.5
80°-90°	69.8	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°	3072.9	47.7
0°-40°	4355.4	67.5
0°-60°	5749.9	89.2
0°-90°	6448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4509	
5°	4446	418
15°	4014	1128
25°	3364	1526
35°	2042	1283
45°	1026	812
55°	650	583
65°	404	401
75°	214	227
85°	63	70
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4509.4
2.5°	4495.3
5°	4446.1
7.5°	4365.3
10°	4263.4
12.5°	4143.9
15°	4013.8
17.5°	3873.2
20°	3729.1
22.5°	3560.4
25°	3363.6
27.5°	3110.5
30°	2797.7
32.5°	2432.2
35°	2042.1
37.5°	1697.6
40°	1412.9
42.5°	1191.5
45°	1026.3
47.5°	899.8
50°	801.4
52.5°	720.5
55°	650.2
57.5°	579.9
60°	516.7
62.5°	456.9
65°	404.2
67.5°	351.5
70°	302.3
72.5°	256.6
75°	214.4
77.5°	172.2
80°	133.6
82.5°	98.4
85°	63.3
87.5°	28.1
90°	0.0



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— 0°-180°







(END OF REPORT)