

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: P252039

Luminaire Tested: **LD4B50D010TE EU4B30508035 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252039  
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 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**

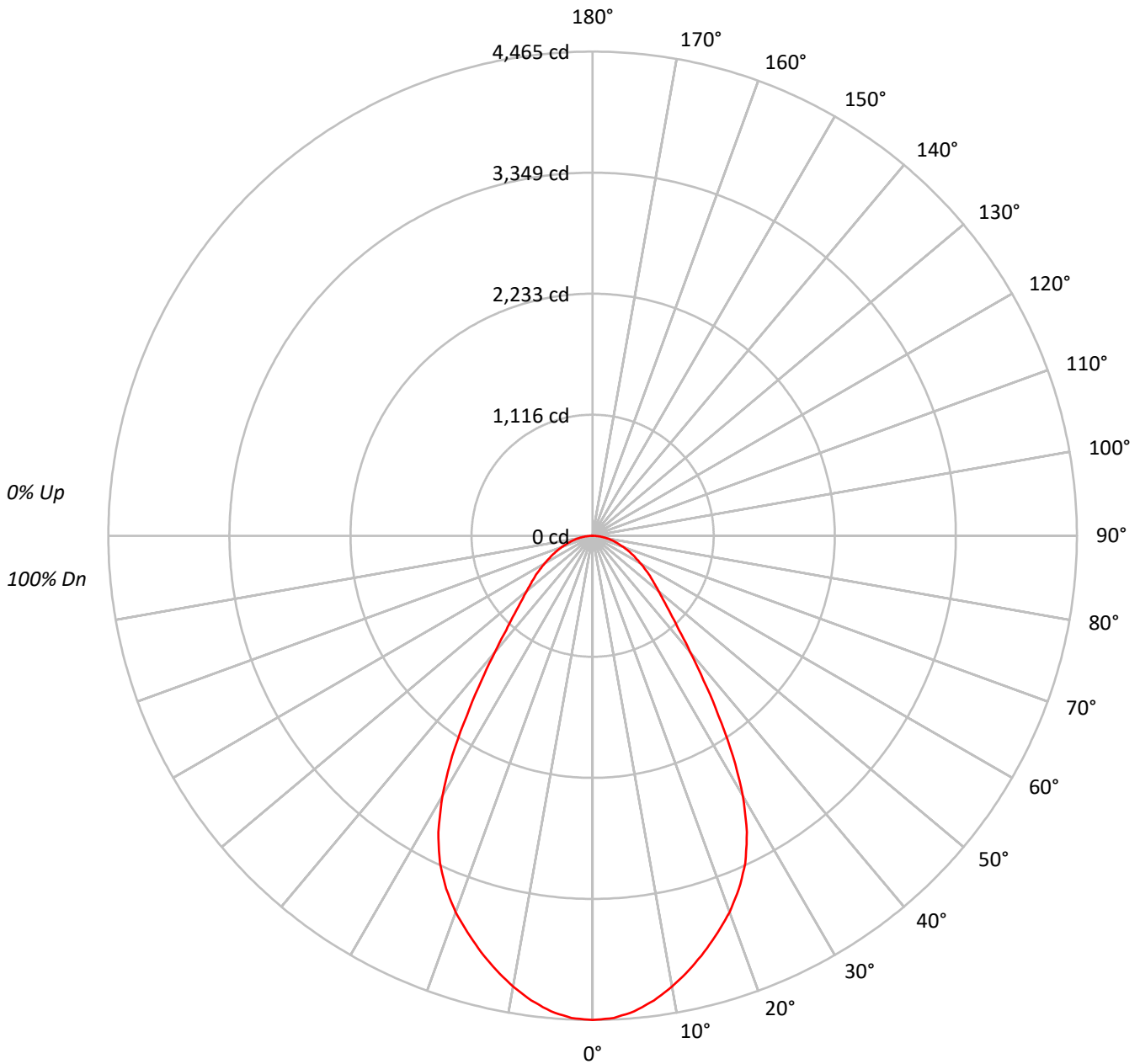
Lumens per Lamp: N/A  
Luminaire Lumens: 6385.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	435180
5°	430718
10°	417786
15°	401021
20°	382980
25°	358160
30°	311767
35°	240578
40°	177997
45°	140073
50°	120309
55°	109407
60°	99719
65°	92288
70°	85285
75°	79941
80°	74252
85°	70000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.4	6.5
10°-20°	1117.0	17.5
20°-30°	1511.4	23.7
30°-40°	1270.0	19.9
40°-50°	803.7	12.6
50°-60°	577.2	9.0
60°-70°	397.2	6.2
70°-80°	224.9	3.5
80°-90°	69.1	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°	3042.9	47.7
0°-40°	4312.9	67.5
0°-60°	5693.8	89.2
0°-90°	6385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4465	
5°	4403	414
15°	3975	1117
25°	3331	1511
35°	2022	1270
45°	1016	804
55°	644	577
65°	400	397
75°	212	225
85°	63	69
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4465.3
2.5°	4451.4
5°	4402.7
7.5°	4322.6
10°	4221.7
12.5°	4103.4
15°	3974.6
17.5°	3835.4
20°	3692.7
22.5°	3525.6
25°	3330.7
27.5°	3080.1
30°	2770.4
32.5°	2408.4
35°	2022.1
37.5°	1681.0
40°	1399.1
42.5°	1179.9
45°	1016.3
47.5°	891.0
50°	793.5
52.5°	713.5
55°	643.9
57.5°	574.3
60°	511.6
62.5°	452.5
65°	400.2
67.5°	348.0
70°	299.3
72.5°	254.1
75°	212.3
77.5°	170.5
80°	132.3
82.5°	97.5
85°	62.6
87.5°	27.8
90°	0.0



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— 0°-180°







(END OF REPORT)