

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: P251993

Luminaire Tested: **LD4B15D010 EU4B10209035 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P251993  
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: LD4B15D010 EU4B10209035 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

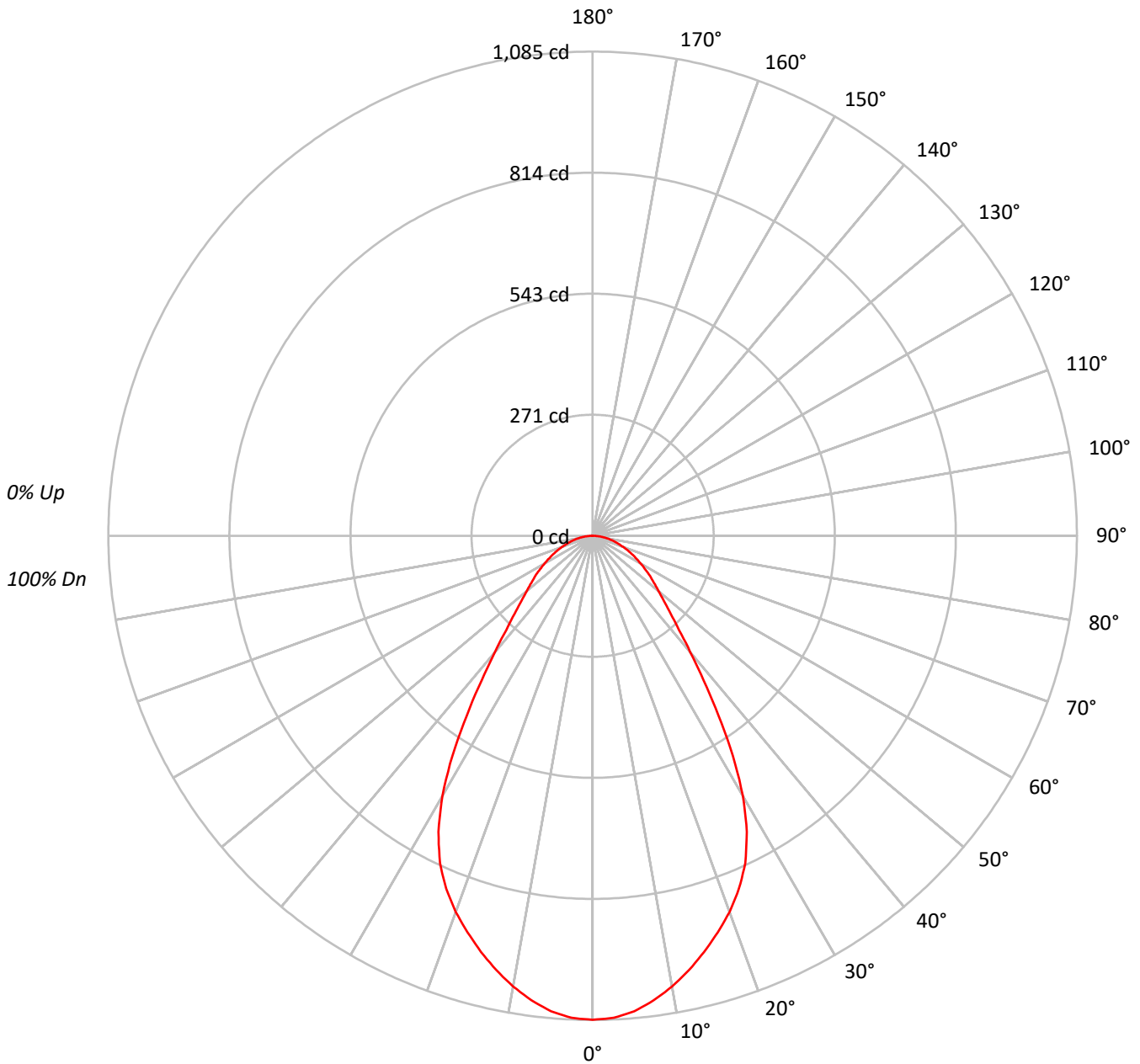
Lumens per Lamp: N/A  
Luminaire Lumens: 1551.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.99  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	55	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°	105713
5°	104630
10°	101485
15°	97415
20°	93030
25°	87005
30°	75736
35°	58440
40°	43243
45°	34029
50°	29232
55°	26574
60°	24228
65°	22415
70°	20716
75°	19430
80°	18016
85°	16997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.7	6.5
10°-20°	271.3	17.5
20°-30°	367.2	23.7
30°-40°	308.5	19.9
40°-50°	195.2	12.6
50°-60°	140.2	9.0
60°-70°	96.5	6.2
70°-80°	54.6	3.5
80°-90°	16.8	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°	739.2	47.7
0°-40°	1047.7	67.5
0°-60°	1383.1	89.2
0°-90°	1551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1085	
5°	1070	101
15°	966	271
25°	809	367
35°	491	308
45°	247	195
55°	156	140
65°	97	96
75°	52	55
85°	15	17
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1084.7
2.5°	1081.3
5°	1069.5
7.5°	1050.0
10°	1025.5
12.5°	996.8
15°	965.5
17.5°	931.7
20°	897.0
22.5°	856.4
25°	809.1
27.5°	748.2
30°	673.0
32.5°	585.0
35°	491.2
37.5°	408.3
40°	339.9
42.5°	286.6
45°	246.9
47.5°	216.4
50°	192.8
52.5°	173.3
55°	156.4
57.5°	139.5
60°	124.3
62.5°	109.9
65°	97.2
67.5°	84.5
70°	72.7
72.5°	61.7
75°	51.6
77.5°	41.4
80°	32.1
82.5°	23.7
85°	15.2
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)