

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: P252083

Luminaire Tested: **LD4B20D010 EU4B10209030 4LBBA1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B20D010 EU4B10209030 4LBBA1MB  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 865.0 lumens  
Efficiency: N/A  
Efficacy: 41.6 lumens/watt  
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.94  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct

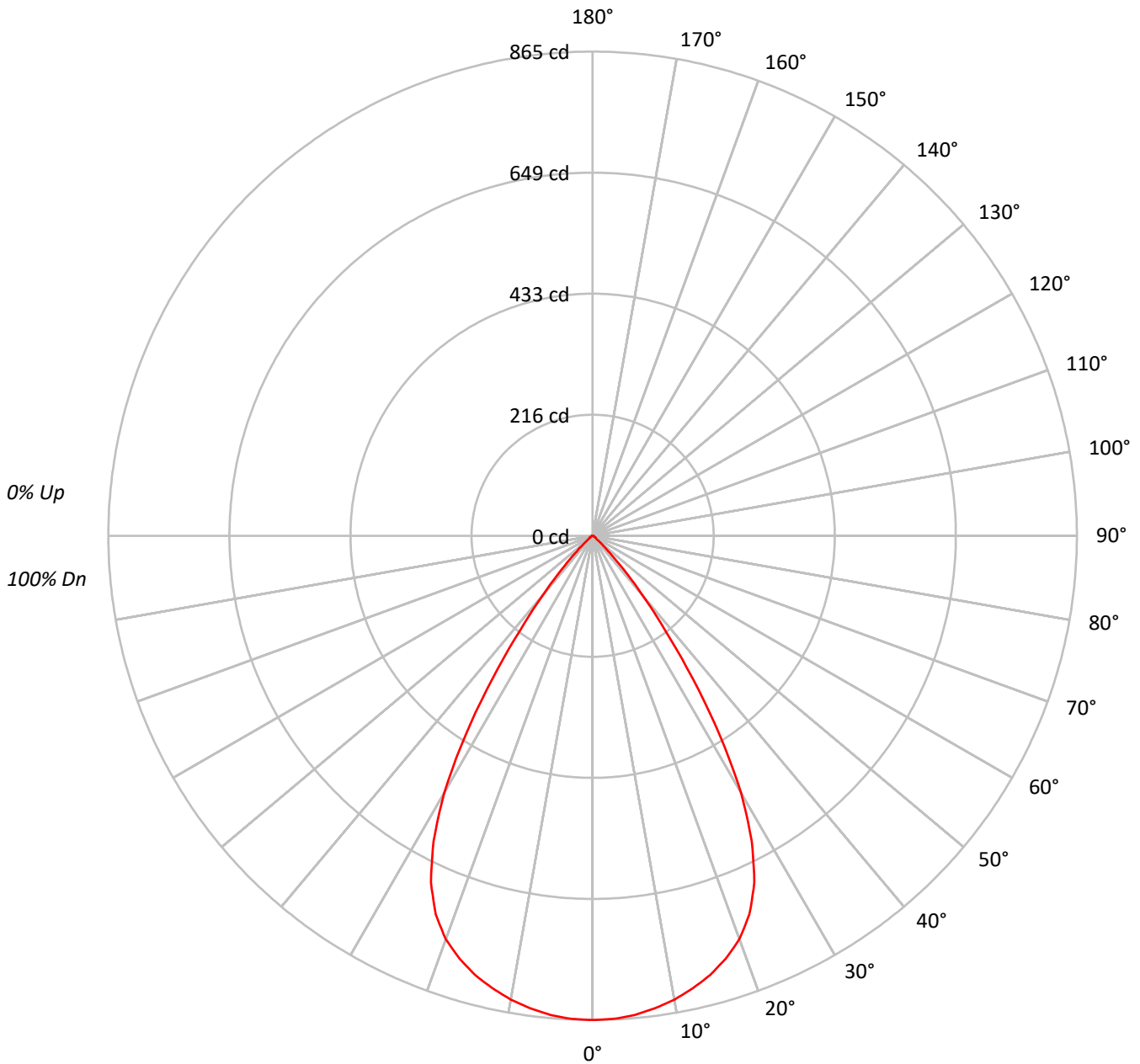
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93		
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61		
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57		
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53		
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50		

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

	0°
0°	84311
5°	84075
10°	83266
15°	81928
20°	79527
25°	73477
30°	59610
35°	36953
40°	17391
45°	6064
50°	1713
55°	1155
60°	877
65°	784
70°	655
75°	414
80°	617
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.4	9.4
10°-20°	228.2	26.4
20°-30°	306.8	35.5
30°-40°	196.0	22.7
40°-50°	41.7	4.8
50°-60°	6.3	0.7
60°-70°	3.1	0.4
70°-80°	1.3	0.2
80°-90°	0.1	0.0
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°	616.5	71.3
0°-40°	812.5	93.9
0°-60°	860.4	99.5
0°-90°	865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	865	
5°	859	81
15°	812	228
25°	683	307
35°	311	196
45°	44	42
55°	7	6
65°	3	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	865.1
2.5°	864.0
5°	859.4
7.5°	851.5
10°	841.4
12.5°	827.8
15°	812.0
17.5°	791.7
20°	766.8
22.5°	731.8
25°	683.3
27.5°	615.5
30°	529.7
32.5°	423.5
35°	310.6
37.5°	212.3
40°	136.7
42.5°	81.3
45°	44.0
47.5°	22.6
50°	11.3
52.5°	7.9
55°	6.8
57.5°	5.6
60°	4.5
62.5°	3.4
65°	3.4
67.5°	2.3
70°	2.3
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)