

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: P252002

Luminaire Tested: **LD4B20D010 EU4B10208050 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252002  
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: LD4B20D010 EU4B10208050 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2511.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

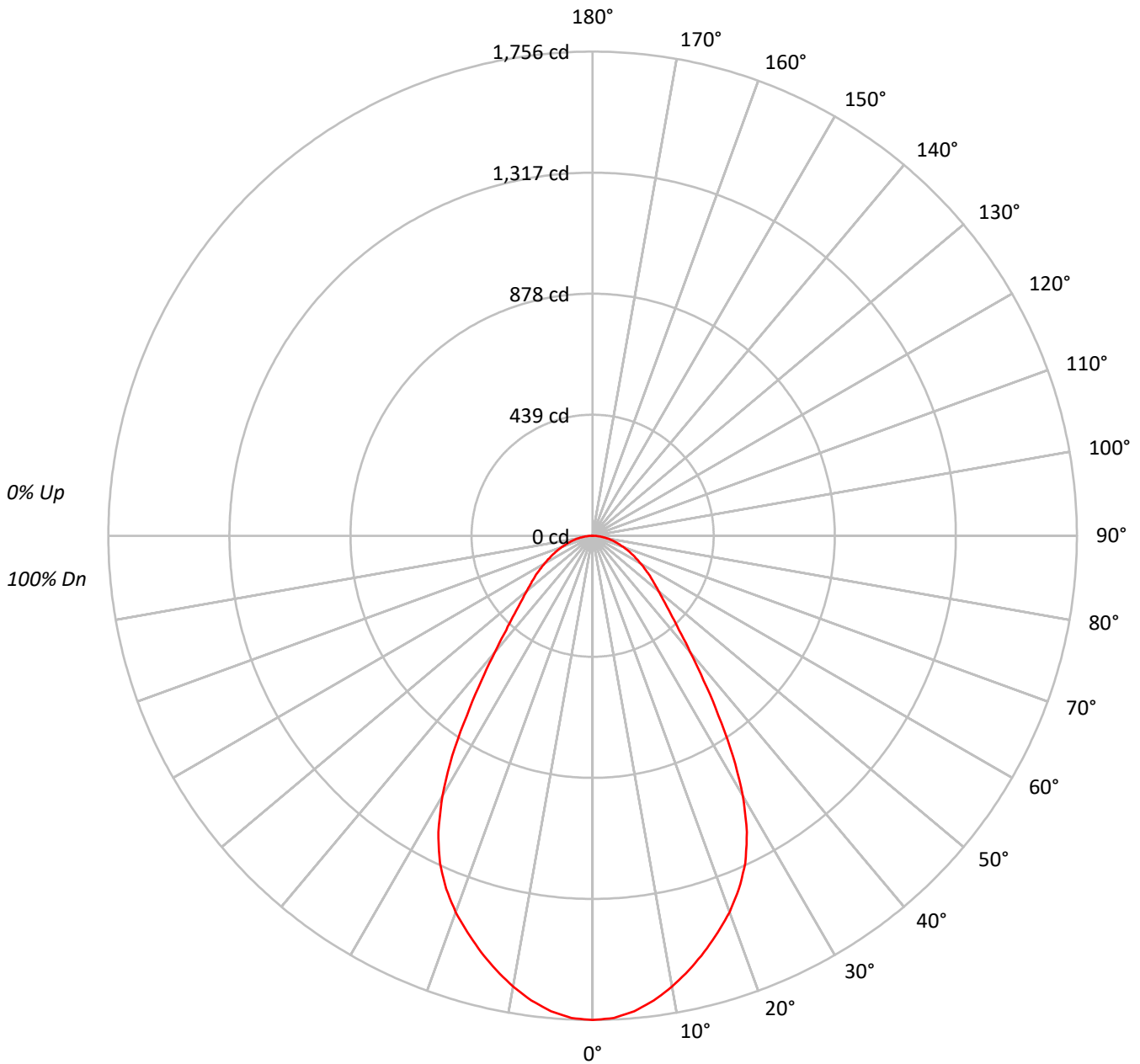
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				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	55	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°	171146
5°	169383
10°	164306
15°	157711
20°	150612
25°	140858
30°	122607
35°	94608
40°	69998
45°	55089
50°	47320
55°	43022
60°	39217
65°	36297
70°	33538
75°	31442
80°	29184
85°	27508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	6.5
10°-20°	439.3	17.5
20°-30°	594.4	23.7
30°-40°	499.5	19.9
40°-50°	316.1	12.6
50°-60°	227.0	9.0
60°-70°	156.2	6.2
70°-80°	88.4	3.5
80°-90°	27.2	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°	1196.7	47.7
0°-40°	1696.1	67.5
0°-60°	2239.2	89.2
0°-90°	2511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1756	
5°	1731	163
15°	1563	439
25°	1310	594
35°	795	499
45°	400	316
55°	253	227
65°	157	156
75°	84	88
85°	25	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1756.1
2.5°	1750.6
5°	1731.4
7.5°	1699.9
10°	1660.3
12.5°	1613.7
15°	1563.1
17.5°	1508.3
20°	1452.2
22.5°	1386.5
25°	1309.9
27.5°	1211.3
30°	1089.5
32.5°	947.2
35°	795.2
37.5°	661.1
40°	550.2
42.5°	464.0
45°	399.7
47.5°	350.4
50°	312.1
52.5°	280.6
55°	253.2
57.5°	225.8
60°	201.2
62.5°	177.9
65°	157.4
67.5°	136.9
70°	117.7
72.5°	99.9
75°	83.5
77.5°	67.1
80°	52.0
82.5°	38.3
85°	24.6
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)