

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: P252028

Luminaire Tested: **LD4B40D010 EU4B30508050 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252028  
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: LD4B40D010 EU4B30508050 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: 5067.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

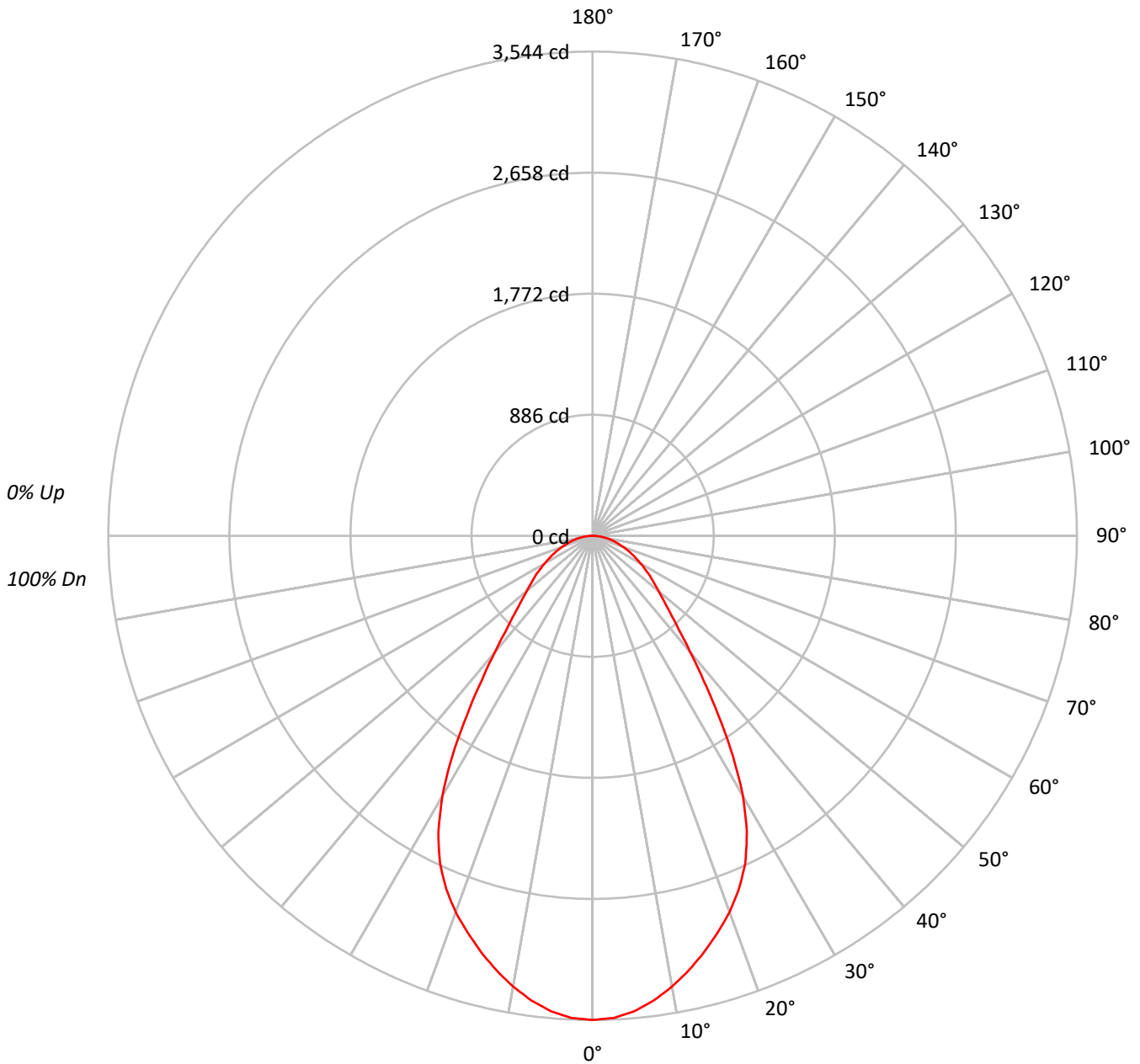
Input Watts (W): 43.02  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	345352
5°	341809
10°	331551
15°	318246
20°	303920
25°	284231
30°	247408
35°	190918
40°	141255
45°	111157
50°	95474
55°	86826
60°	79136
65°	73240
70°	67675
75°	63449
80°	58930
85°	55575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.9	6.5
10°-20°	886.4	17.5
20°-30°	1199.4	23.7
30°-40°	1007.9	19.9
40°-50°	637.8	12.6
50°-60°	458.1	9.0
60°-70°	315.3	6.2
70°-80°	178.4	3.5
80°-90°	54.8	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°	2414.8	47.7
0°-40°	3422.6	67.5
0°-60°	4518.4	89.2
0°-90°	5067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3544	
5°	3494	329
15°	3154	886
25°	2643	1199
35°	1605	1008
45°	806	638
55°	511	458
65°	318	315
75°	168	178
85°	50	55
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3543.6
2.5°	3532.5
5°	3493.9
7.5°	3430.4
10°	3350.3
12.5°	3256.4
15°	3154.2
17.5°	3043.7
20°	2930.4
22.5°	2797.9
25°	2643.2
27.5°	2444.3
30°	2198.5
32.5°	1911.3
35°	1604.7
37.5°	1334.0
40°	1110.3
42.5°	936.3
45°	806.5
47.5°	707.1
50°	629.7
52.5°	566.2
55°	511.0
57.5°	455.7
60°	406.0
62.5°	359.1
65°	317.6
67.5°	276.2
70°	237.5
72.5°	201.6
75°	168.5
77.5°	135.3
80°	105.0
82.5°	77.3
85°	49.7
87.5°	22.1
90°	0.0



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— 0°-180°







(END OF REPORT)