

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: P252011

Luminaire Tested: **LD4B30D010 EU4B30508027 4LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252011  
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: LD4B30D010 EU4B30508027 4LBBA1MW  
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3342.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 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

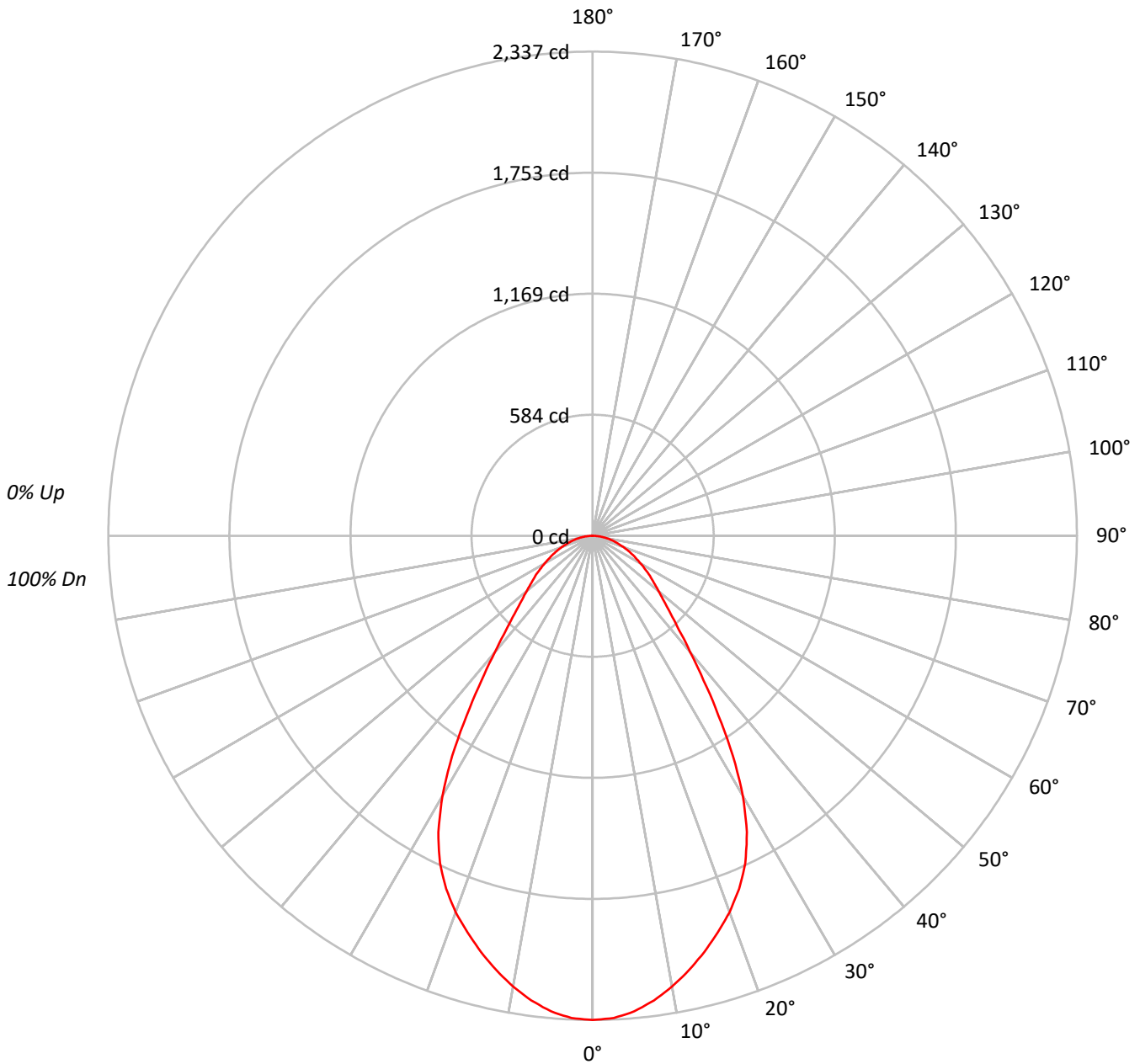
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	54	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°	227779
5°	225440
10°	218675
15°	209904
20°	200456
25°	187473
30°	163187
35°	125922
40°	93165
45°	73310
50°	62967
55°	57261
60°	52199
65°	48312
70°	44651
75°	41835
80°	38838
85°	36677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.9	6.5
10°-20°	584.7	17.5
20°-30°	791.1	23.7
30°-40°	664.8	19.9
40°-50°	420.7	12.6
50°-60°	302.1	9.0
60°-70°	207.9	6.2
70°-80°	117.7	3.5
80°-90°	36.2	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°	1592.7	47.7
0°-40°	2257.4	67.5
0°-60°	2980.2	89.2
0°-90°	3342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2337	
5°	2304	217
15°	2080	585
25°	1743	791
35°	1058	665
45°	532	421
55°	337	302
65°	210	208
75°	111	118
85°	33	36
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2337.2
2.5°	2329.9
5°	2304.4
7.5°	2262.5
10°	2209.7
12.5°	2147.8
15°	2080.4
17.5°	2007.5
20°	1932.8
22.5°	1845.4
25°	1743.4
27.5°	1612.2
30°	1450.1
32.5°	1260.6
35°	1058.4
37.5°	879.9
40°	732.3
42.5°	617.6
45°	531.9
47.5°	466.4
50°	415.3
52.5°	373.4
55°	337.0
57.5°	300.6
60°	267.8
62.5°	236.8
65°	209.5
67.5°	182.2
70°	156.7
72.5°	133.0
75°	111.1
77.5°	89.3
80°	69.2
82.5°	51.0
85°	32.8
87.5°	14.6
90°	0.0



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— 0°-180°







(END OF REPORT)