

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: P252030

Luminaire Tested: **LD4B40D010 EU4B30509027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252030
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 EU4B30509027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4020.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

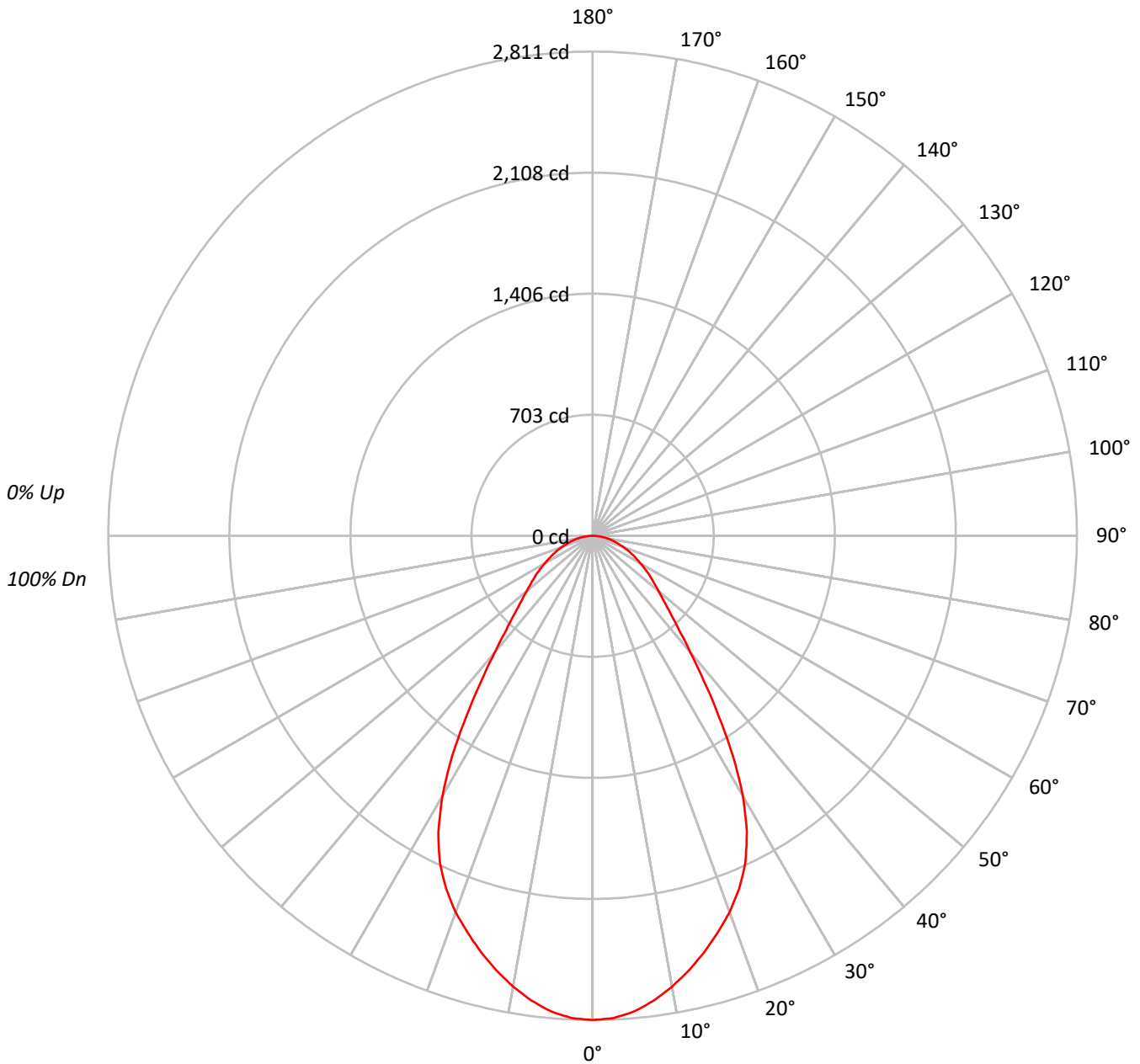
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	273994
5°	271176
10°	263040
15°	252482
20°	241122
25°	225497
30°	196283
35°	151466
40°	112070
45°	88181
50°	75748
55°	68883
60°	62782
65°	58113
70°	53684
75°	50345
80°	46751
85°	44057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	6.5
10°-20°	703.3	17.5
20°-30°	951.6	23.7
30°-40°	799.6	19.9
40°-50°	506.0	12.6
50°-60°	363.4	9.0
60°-70°	250.1	6.2
70°-80°	141.6	3.5
80°-90°	43.5	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°	1915.8	47.7
0°-40°	2715.4	67.5
0°-60°	3584.8	89.2
0°-90°	4020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2811	
5°	2772	261
15°	2502	703
25°	2097	952
35°	1273	800
45°	640	506
55°	405	363
65°	252	250
75°	134	142
85°	39	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2811.4
2.5°	2802.6
5°	2771.9
7.5°	2721.5
10°	2658.0
12.5°	2583.5
15°	2502.4
17.5°	2414.8
20°	2324.9
22.5°	2219.7
25°	2097.0
27.5°	1939.3
30°	1744.2
32.5°	1516.3
35°	1273.1
37.5°	1058.4
40°	880.9
42.5°	742.8
45°	639.8
47.5°	561.0
50°	499.6
52.5°	449.2
55°	405.4
57.5°	361.6
60°	322.1
62.5°	284.9
65°	252.0
67.5°	219.1
70°	188.4
72.5°	160.0
75°	133.7
77.5°	107.4
80°	83.3
82.5°	61.4
85°	39.4
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)