

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: P252026

Luminaire Tested: **LD4B40D010 EU4B30508035 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252026
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 EU4B30508035 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5015.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

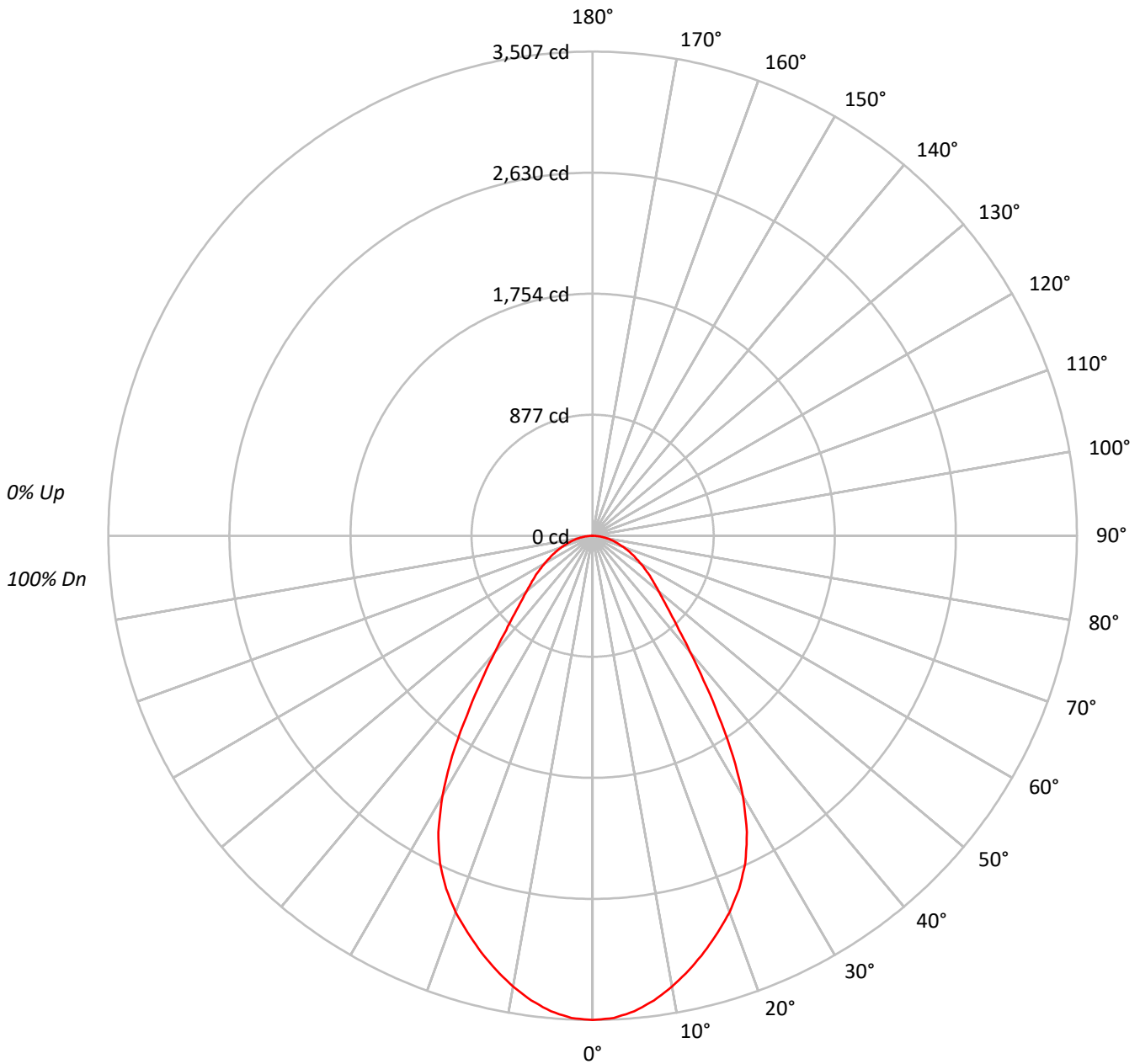
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	341805
5°	338297
10°	328147
15°	314977
20°	300808
25°	281317
30°	244876
35°	188955
40°	139805
45°	110013
50°	94503
55°	85925
60°	78317
65°	72502
70°	66991
75°	62808
80°	58313
85°	55016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	6.5
10°-20°	877.3	17.5
20°-30°	1187.2	23.7
30°-40°	997.5	19.9
40°-50°	631.2	12.6
50°-60°	453.3	9.0
60°-70°	312.0	6.2
70°-80°	176.6	3.5
80°-90°	54.3	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°	2390.0	47.7
0°-40°	3387.5	67.5
0°-60°	4472.1	89.2
0°-90°	5015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5015.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3507	
5°	3458	325
15°	3122	877
25°	2616	1187
35°	1588	998
45°	798	631
55°	506	453
65°	314	312
75°	167	177
85°	49	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3507.2
2.5°	3496.3
5°	3458.0
7.5°	3395.2
10°	3315.9
12.5°	3222.9
15°	3121.8
17.5°	3012.4
20°	2900.4
22.5°	2769.2
25°	2616.1
27.5°	2419.3
30°	2176.0
32.5°	1891.7
35°	1588.2
37.5°	1320.3
40°	1098.9
42.5°	926.7
45°	798.2
47.5°	699.8
50°	623.3
52.5°	560.4
55°	505.7
57.5°	451.0
60°	401.8
62.5°	355.4
65°	314.4
67.5°	273.4
70°	235.1
72.5°	199.6
75°	166.8
77.5°	133.9
80°	103.9
82.5°	76.5
85°	49.2
87.5°	21.9
90°	0.0



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— 0°-180°







(END OF REPORT)