

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: P252036

Luminaire Tested: **LD4B40D010 EU4B30509730 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252036
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 EU4B30509730 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3653.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

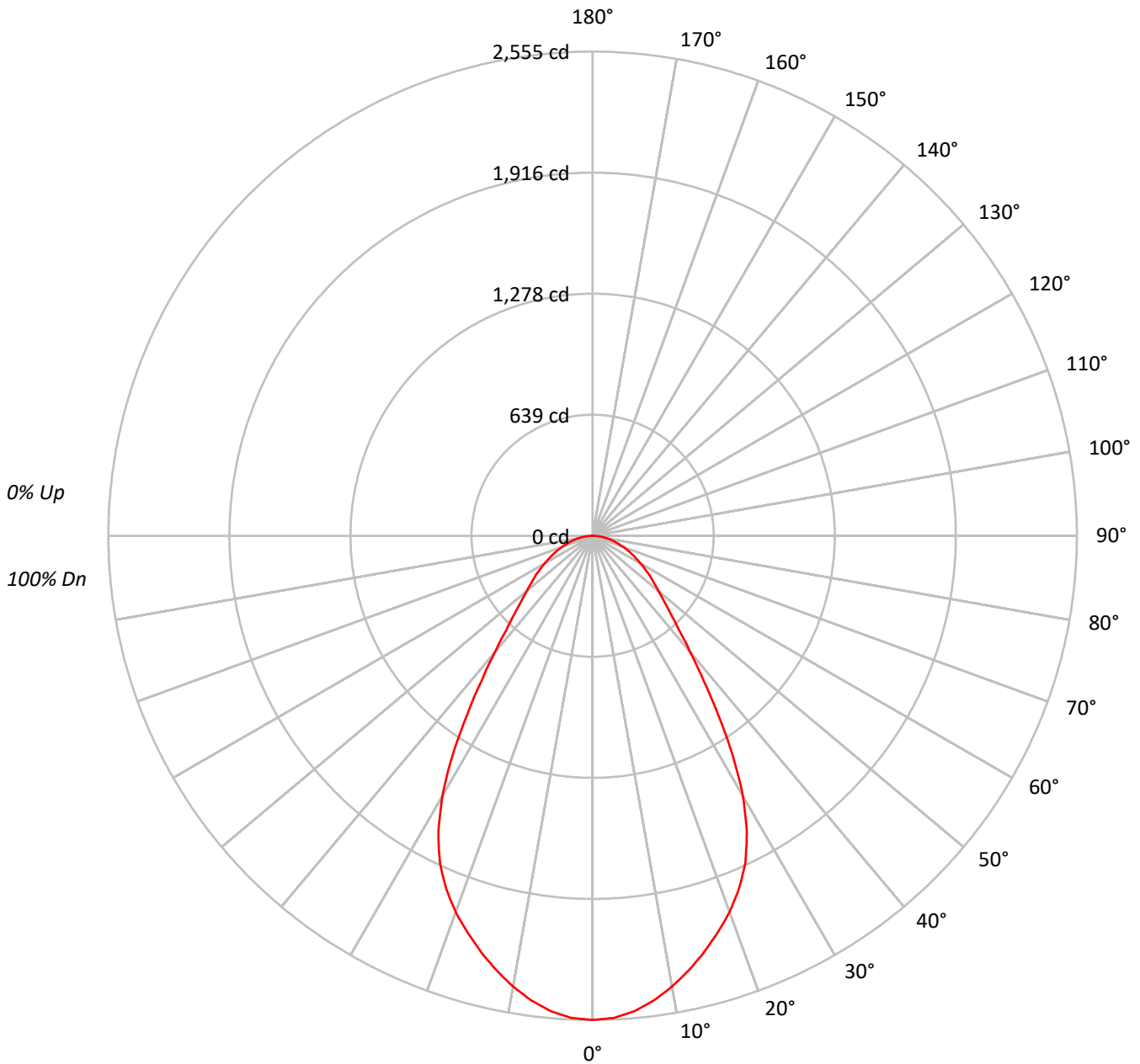
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	248976
5°	246425
10°	239022
15°	229438
20°	219114
25°	204915
30°	178368
35°	137641
40°	101842
45°	80132
50°	68835
55°	62596
60°	57052
65°	52809
70°	48783
75°	45751
80°	42486
85°	40032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	6.5
10°-20°	639.1	17.5
20°-30°	864.7	23.7
30°-40°	726.6	19.9
40°-50°	459.8	12.6
50°-60°	330.2	9.0
60°-70°	227.3	6.2
70°-80°	128.7	3.5
80°-90°	39.5	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°	1740.9	47.7
0°-40°	2467.5	67.5
0°-60°	3257.5	89.2
0°-90°	3653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3653.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2555	
5°	2519	237
15°	2274	639
25°	1906	865
35°	1157	727
45°	581	460
55°	368	330
65°	229	227
75°	122	129
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2554.7
2.5°	2546.8
5°	2518.9
7.5°	2473.1
10°	2415.3
12.5°	2347.6
15°	2274.0
17.5°	2194.3
20°	2112.7
22.5°	2017.1
25°	1905.6
27.5°	1762.2
30°	1585.0
32.5°	1377.9
35°	1156.9
37.5°	961.8
40°	800.5
42.5°	675.0
45°	581.4
47.5°	509.7
50°	454.0
52.5°	408.2
55°	368.4
57.5°	328.5
60°	292.7
62.5°	258.9
65°	229.0
67.5°	199.1
70°	171.2
72.5°	145.4
75°	121.5
77.5°	97.6
80°	75.7
82.5°	55.8
85°	35.8
87.5°	15.9
90°	0.0



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— 0°-180°







(END OF REPORT)