

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: P251994

Luminaire Tested: **LD4B15D010 EU4B10209040 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251994
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: LD4B15D010 EU4B10209040 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1553.9 lumens
Efficiency: N/A
Efficacy: 108.0 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

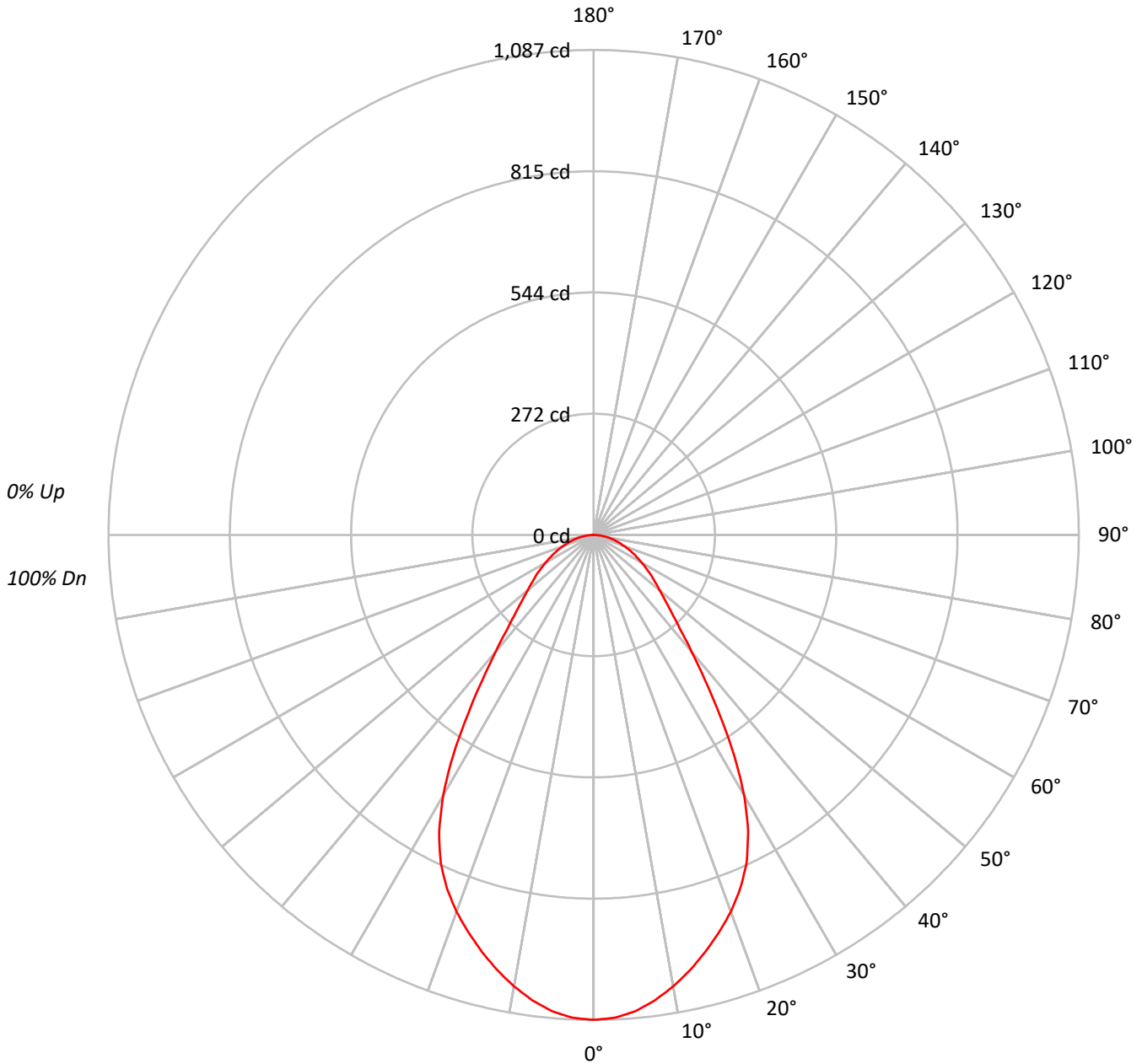
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	55	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°	105917
5°	104825
10°	101683
15°	97607
20°	93207
25°	87166
30°	75882
35°	58547
40°	43319
45°	34085
50°	29277
55°	26625
60°	24267
65°	22461
70°	20744
75°	19468
80°	18072
85°	16997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	6.5
10°-20°	271.9	17.5
20°-30°	367.9	23.7
30°-40°	309.1	19.9
40°-50°	195.6	12.6
50°-60°	140.5	9.0
60°-70°	96.7	6.2
70°-80°	54.7	3.5
80°-90°	16.8	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°	740.6	47.7
0°-40°	1049.7	67.5
0°-60°	1385.7	89.2
0°-90°	1553.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1087	
5°	1072	101
15°	967	272
25°	811	368
35°	492	309
45°	247	196
55°	157	140
65°	97	97
75°	52	55
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1086.8
2.5°	1083.4
5°	1071.5
7.5°	1052.1
10°	1027.5
12.5°	998.7
15°	967.4
17.5°	933.5
20°	898.7
22.5°	858.1
25°	810.6
27.5°	749.7
30°	674.3
32.5°	586.2
35°	492.1
37.5°	409.1
40°	340.5
42.5°	287.2
45°	247.3
47.5°	216.8
50°	193.1
52.5°	173.6
55°	156.7
57.5°	139.8
60°	124.5
62.5°	110.1
65°	97.4
67.5°	84.7
70°	72.8
72.5°	61.8
75°	51.7
77.5°	41.5
80°	32.2
82.5°	23.7
85°	15.2
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)