

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: P252070

Luminaire Tested: **LD4B15D010 EU4B10209030 4LBBA1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B15D010 EU4B10209030 4LBBA1MB
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638.0 lumens
Efficiency: N/A
Efficacy: 44.3 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.94
Luminous Opening: Circular (Dia: 0.38' x H: 0')
CIE Type: Direct

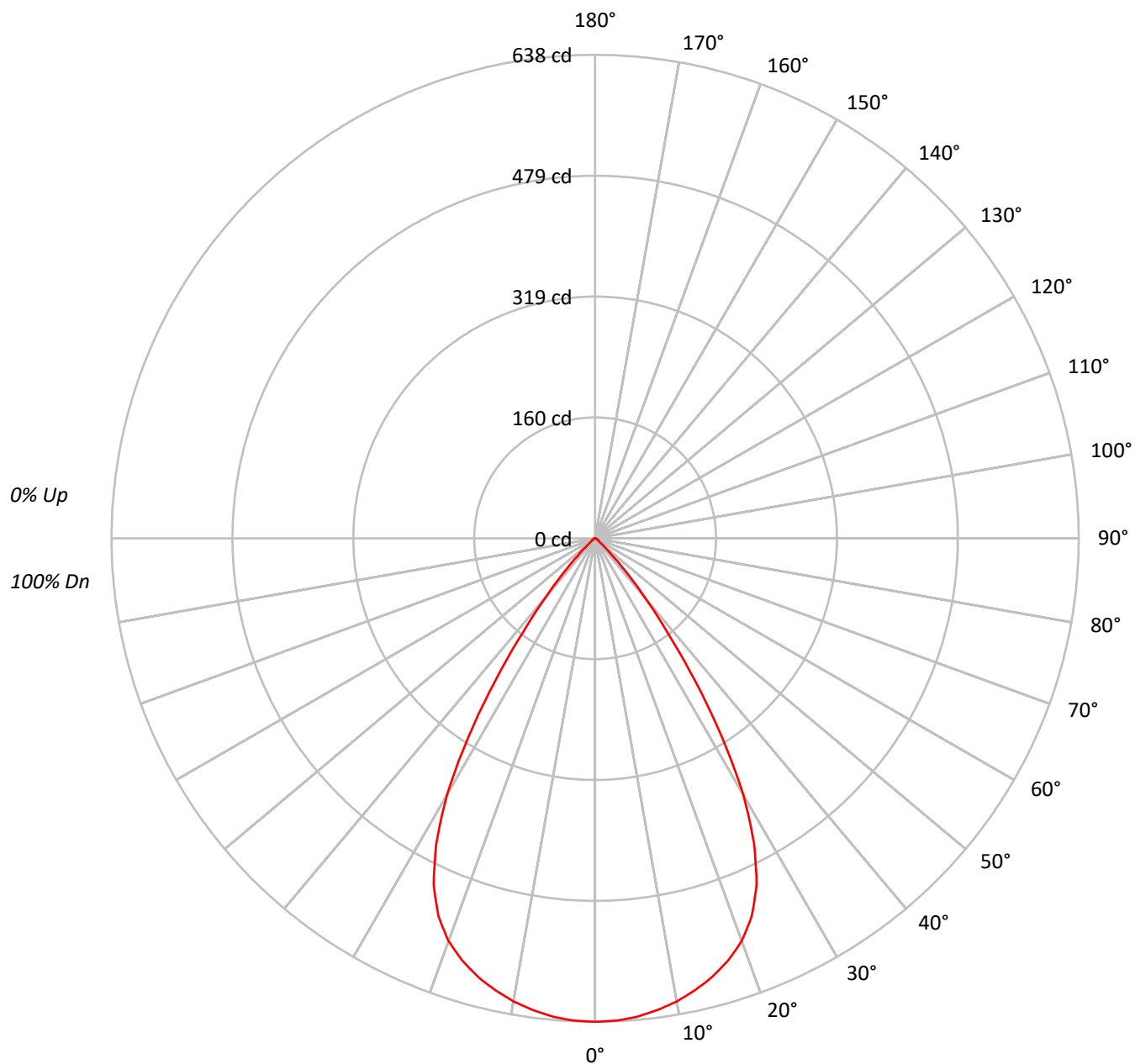
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	77		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	63	82	73	67	63	72	67	63		71	66	63		69
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	65	59	55	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	60	55	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62188
5°	62015
10°	61416
15°	60427
20°	58660
25°	54197
30°	43967
35°	27257
40°	12824
45°	4479
50°	1258
55°	850
60°	643
65°	577
70°	484
75°	301
80°	449
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	9.4
10°-20°	168.3	26.4
20°-30°	226.3	35.5
30°-40°	144.6	22.7
40°-50°	30.7	4.8
50°-60°	4.6	0.7
60°-70°	2.3	0.4
70°-80°	1.0	0.2
80°-90°	0.1	0.0
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°	454.7	71.3
0°-40°	599.3	93.9
0°-60°	634.7	99.5
0°-90°	638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	638	
5°	634	60
15°	599	168
25°	504	226
35°	229	145
45°	32	31
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	638.1
2.5°	637.2
5°	633.9
7.5°	628.1
10°	620.6
12.5°	610.6
15°	598.9
17.5°	583.9
20°	565.6
22.5°	539.8
25°	504.0
27.5°	454.0
30°	390.7
32.5°	312.4
35°	229.1
37.5°	156.6
40°	100.8
42.5°	60.0
45°	32.5
47.5°	16.7
50°	8.3
52.5°	5.8
55°	5.0
57.5°	4.2
60°	3.3
62.5°	2.5
65°	2.5
67.5°	1.7
70°	1.7
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)