

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: P252103

Luminaire Tested: **LD4B40D010 EU4B30508030 4LBBA1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252103
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: LD4B40D010 EU4B30508030 4LBBA1MB
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE BLACK TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2043.0 lumens
Efficiency: N/A
Efficacy: 47.5 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

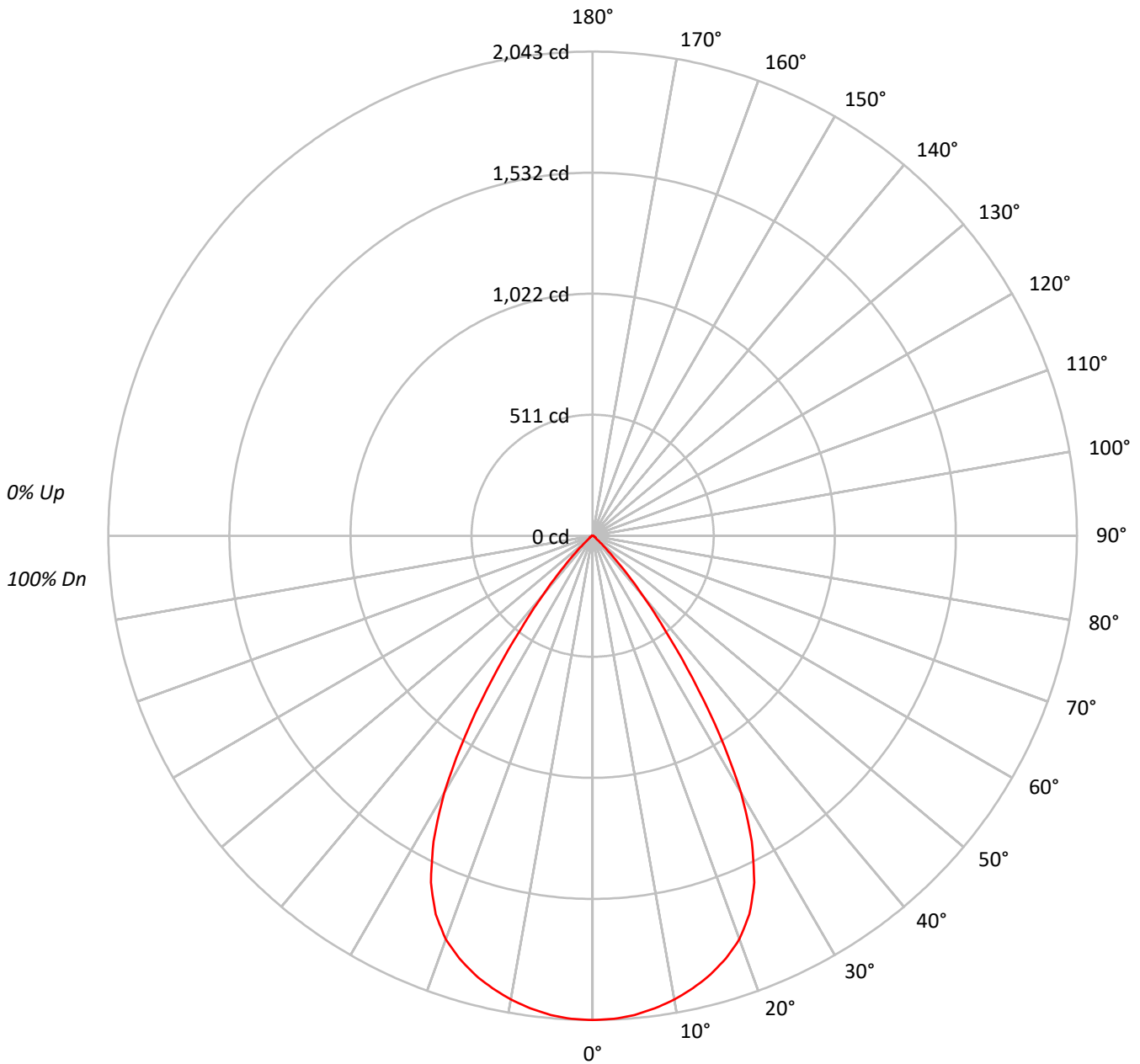
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65			
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61			
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57			
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			
10	72	62	56	52	71	61	56	52	60	55	52	60	55	52	59	55	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	199126
5°	198586
10°	196656
15°	193498
20°	187844
25°	173537
30°	140781
35°	87268
40°	41067
45°	14334
50°	4048
55°	2719
60°	2086
65°	1845
70°	1510
75°	1017
80°	1515
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	9.4
10°-20°	539.1	26.4
20°-30°	724.6	35.5
30°-40°	462.9	22.7
40°-50°	98.4	4.8
50°-60°	14.8	0.7
60°-70°	7.2	0.4
70°-80°	3.2	0.2
80°-90°	0.4	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°	1456.1	71.3
0°-40°	1919.0	93.9
0°-60°	2032.2	99.5
0°-90°	2043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2043.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2043	
5°	2030	192
15°	1918	539
25°	1614	725
35°	734	463
45°	104	98
55°	16	15
65°	8	7
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2043.2
2.5°	2040.5
5°	2029.9
7.5°	2011.2
10°	1987.2
12.5°	1955.2
15°	1917.8
17.5°	1869.8
20°	1811.2
22.5°	1728.5
25°	1613.8
27.5°	1453.7
30°	1251.0
32.5°	1000.3
35°	733.5
37.5°	501.5
40°	322.8
42.5°	192.1
45°	104.0
47.5°	53.3
50°	26.7
52.5°	18.7
55°	16.0
57.5°	13.3
60°	10.7
62.5°	8.0
65°	8.0
67.5°	5.3
70°	5.3
72.5°	2.7
75°	2.7
77.5°	2.7
80°	2.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)