

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: P251991

Luminaire Tested: **LD4B15D010 EU4B10209027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251991
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 EU4B10209027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1471.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

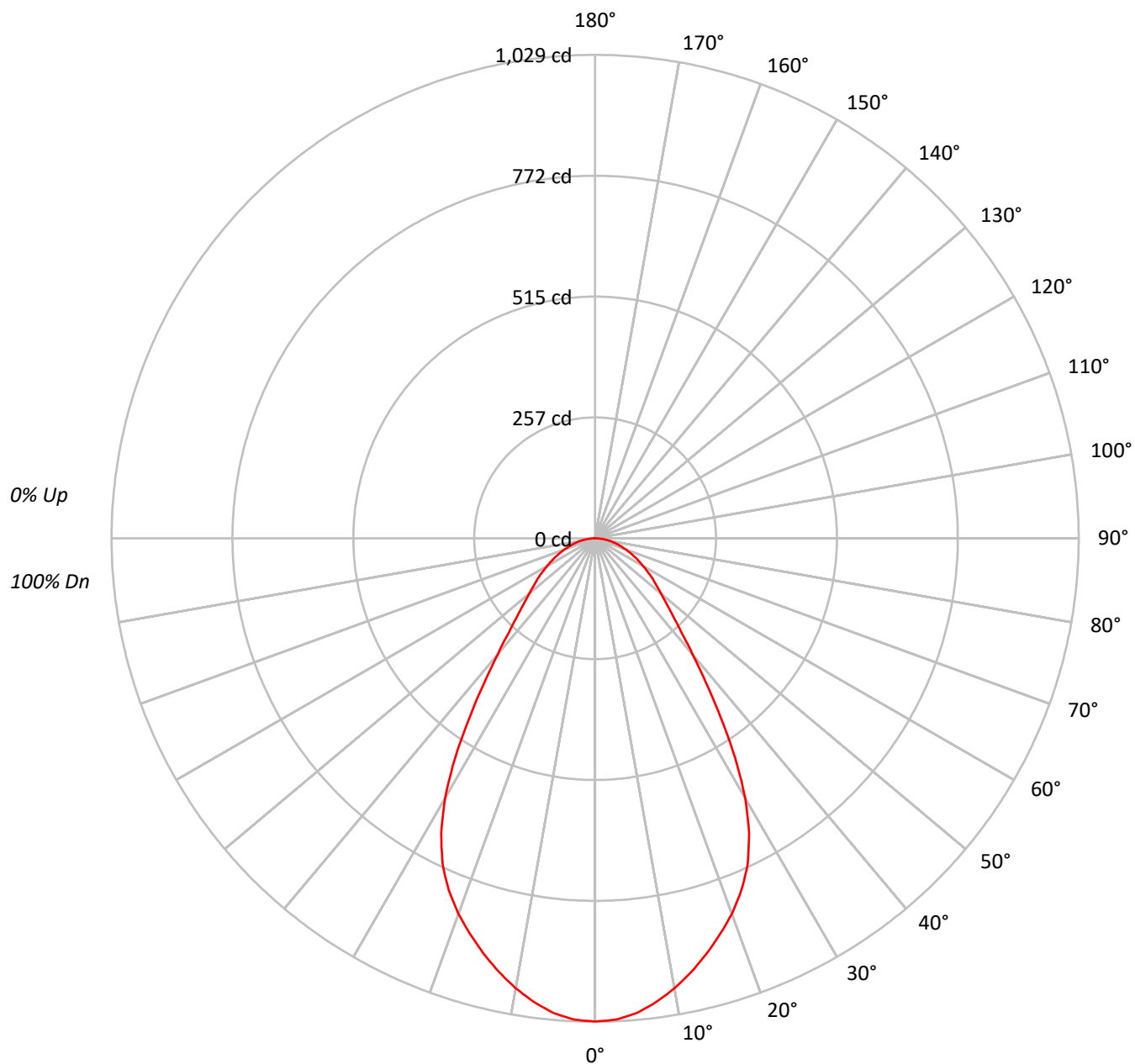
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
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	111	107	104	101	108	105	102	99	101	98	96		97	95	93		93
2	103	96	91	86	101	95	90	85	91	87	83		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	80	72	67	87	78	72	66	76	70	65		74	69	65		72
5	84	73	65	60	82	72	65	59	70	64	59		68	63	58		66
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	74	62	54	49	72	61	54	49	60	53	49		58	53	48		57
8	69	58	50	45	68	57	50	45	56	49	45		54	49	45		53
9	65	54	46	42	64	53	46	42	52	46	41		51	45	41		50
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100255
5°	99229
10°	96250
15°	92390
20°	88228
25°	82510
30°	71831
35°	55430
40°	41004
45°	32265
50°	27716
55°	25198
60°	22981
65°	21262
70°	19661
75°	18413
80°	17118
85°	16102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	6.5
10°-20°	257.3	17.5
20°-30°	348.2	23.7
30°-40°	292.6	19.9
40°-50°	185.1	12.6
50°-60°	133.0	9.0
60°-70°	91.5	6.2
70°-80°	51.8	3.5
80°-90°	15.9	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°	701.0	47.7
0°-40°	993.6	67.5
0°-60°	1311.7	89.2
0°-90°	1471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1471.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1029	
5°	1014	95
15°	916	257
25°	767	348
35°	466	293
45°	234	185
55°	148	133
65°	92	92
75°	49	52
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1028.7
2.5°	1025.5
5°	1014.3
7.5°	995.9
10°	972.6
12.5°	945.4
15°	915.7
17.5°	883.6
20°	850.7
22.5°	812.2
25°	767.3
27.5°	709.6
30°	638.3
32.5°	554.9
35°	465.9
37.5°	387.3
40°	322.3
42.5°	271.8
45°	234.1
47.5°	205.3
50°	182.8
52.5°	164.4
55°	148.3
57.5°	132.3
60°	117.9
62.5°	104.2
65°	92.2
67.5°	80.2
70°	69.0
72.5°	58.5
75°	48.9
77.5°	39.3
80°	30.5
82.5°	22.5
85°	14.4
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)