

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: P251998

Luminaire Tested: **LD4B20D010 EU4B10208027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251998
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: LD4B20D010 EU4B10208027 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2320.0 lumens
Efficiency: N/A
Efficacy: 111.5 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

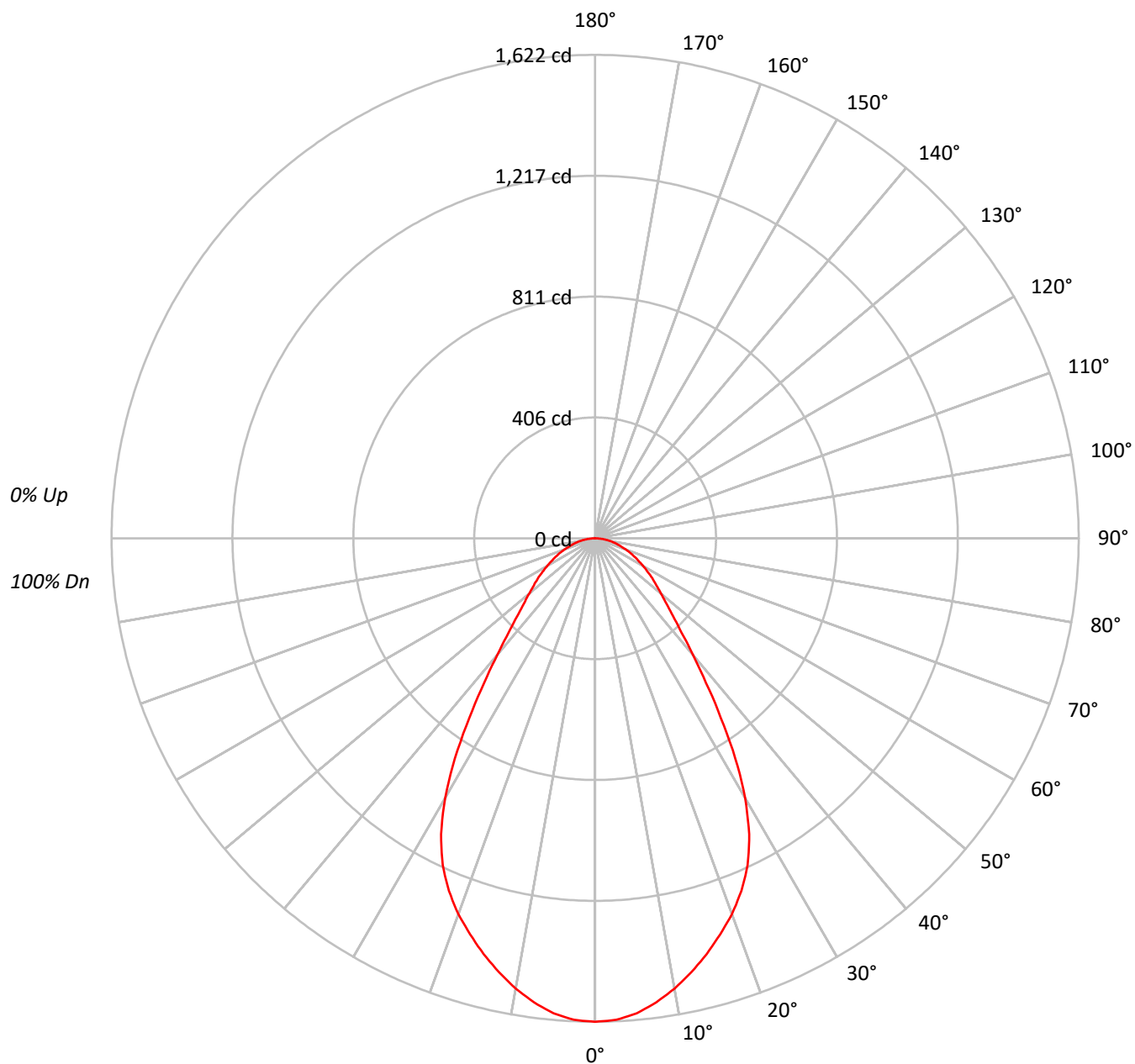
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	158126
5°	156499
10°	151807
15°	145714
20°	139151
25°	130137
30°	113278
35°	87410
40°	64680
45°	50899
50°	43711
55°	39760
60°	36235
65°	33530
70°	31002
75°	29032
80°	26996
85°	25495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	6.5
10°-20°	405.9	17.5
20°-30°	549.2	23.7
30°-40°	461.5	19.9
40°-50°	292.0	12.6
50°-60°	209.7	9.0
60°-70°	144.4	6.2
70°-80°	81.7	3.5
80°-90°	25.1	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°	1105.6	47.7
0°-40°	1567.1	67.5
0°-60°	2068.8	89.2
0°-90°	2320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1622	
5°	1600	151
15°	1444	406
25°	1210	549
35°	735	461
45°	369	292
55°	234	210
65°	145	144
75°	77	82
85°	23	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1622.5
2.5°	1617.4
5°	1599.7
7.5°	1570.6
10°	1534.0
12.5°	1491.0
15°	1444.2
17.5°	1393.6
20°	1341.7
22.5°	1281.0
25°	1210.2
27.5°	1119.2
30°	1006.6
32.5°	875.1
35°	734.7
37.5°	610.8
40°	508.4
42.5°	428.7
45°	369.3
47.5°	323.7
50°	288.3
52.5°	259.2
55°	234.0
57.5°	208.7
60°	185.9
62.5°	164.4
65°	145.4
67.5°	126.5
70°	108.8
72.5°	92.3
75°	77.1
77.5°	62.0
80°	48.1
82.5°	35.4
85°	22.8
87.5°	10.1
90°	0.0



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— 0°-180°







(END OF REPORT)