

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: P252003

Luminaire Tested: **LD4B20D010 EU4B10209024 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252003
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 EU4B10209024 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

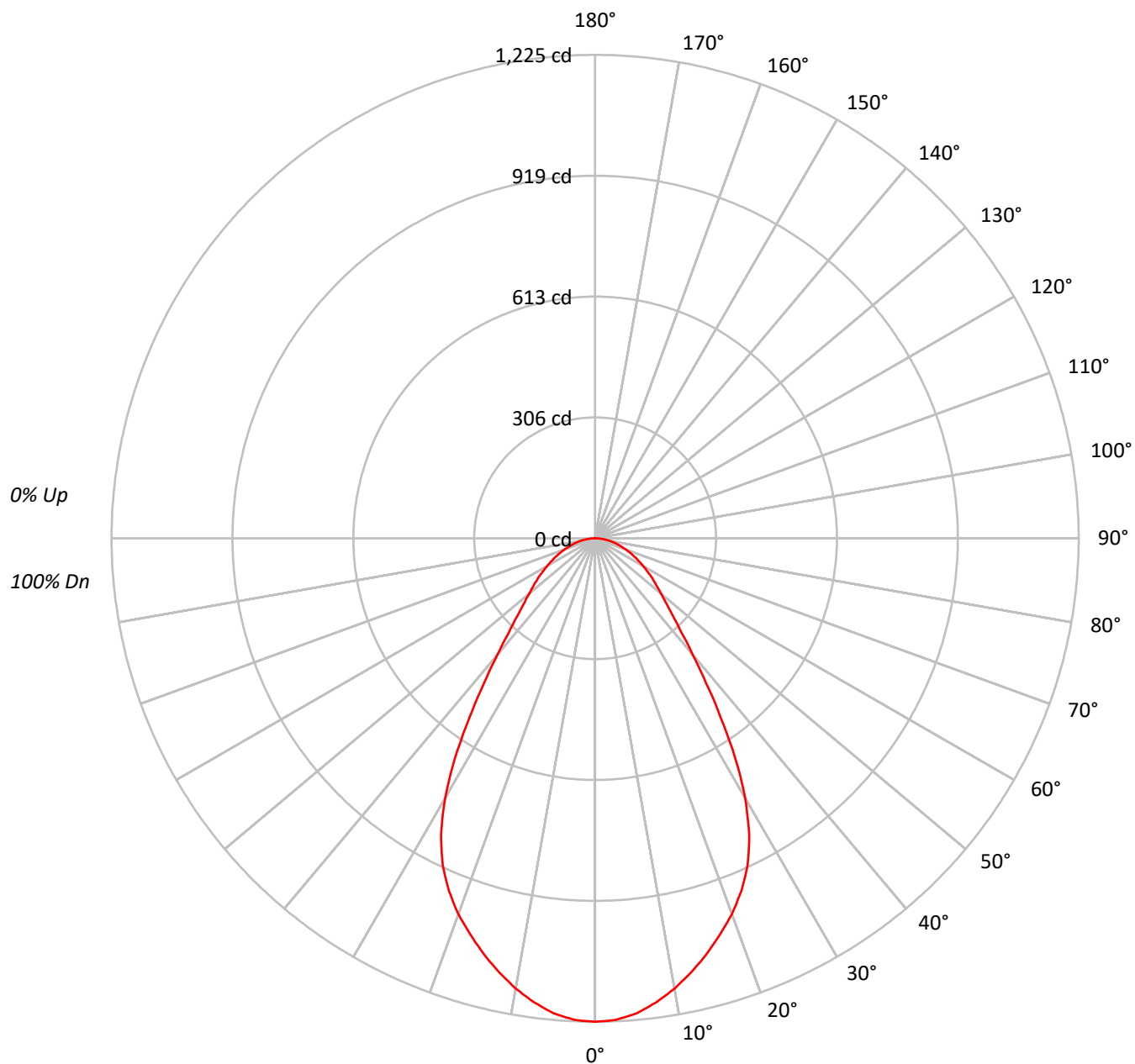
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		55	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°	119415
5°	118189
10°	114637
15°	110037
20°	105082
25°	98274
30°	85549
35°	66019
40°	48841
45°	38440
50°	33007
55°	30024
60°	27366
65°	25320
70°	23394
75°	21953
80°	20373
85°	19233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	6.5
10°-20°	306.5	17.5
20°-30°	414.7	23.7
30°-40°	348.5	19.9
40°-50°	220.5	12.6
50°-60°	158.4	9.0
60°-70°	109.0	6.2
70°-80°	61.7	3.5
80°-90°	18.9	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°	834.9	47.7
0°-40°	1183.4	67.5
0°-60°	1562.4	89.2
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1225	
5°	1208	114
15°	1091	306
25°	914	415
35°	555	349
45°	279	221
55°	177	158
65°	110	109
75°	58	62
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1225.3
2.5°	1221.4
5°	1208.1
7.5°	1186.1
10°	1158.4
12.5°	1125.9
15°	1090.6
17.5°	1052.4
20°	1013.2
22.5°	967.4
25°	913.9
27.5°	845.2
30°	760.2
32.5°	660.9
35°	554.9
37.5°	461.3
40°	383.9
42.5°	323.7
45°	278.9
47.5°	244.5
50°	217.7
52.5°	195.8
55°	176.7
57.5°	157.6
60°	140.4
62.5°	124.1
65°	109.8
67.5°	95.5
70°	82.1
72.5°	69.7
75°	58.3
77.5°	46.8
80°	36.3
82.5°	26.7
85°	17.2
87.5°	7.6
90°	0.0



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— 0°-180°







(END OF REPORT)