

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: P251983

Luminaire Tested: **LD4B10D010 EU4B10209727 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251983
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: LD4B10D010 EU4B10209727 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 918.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

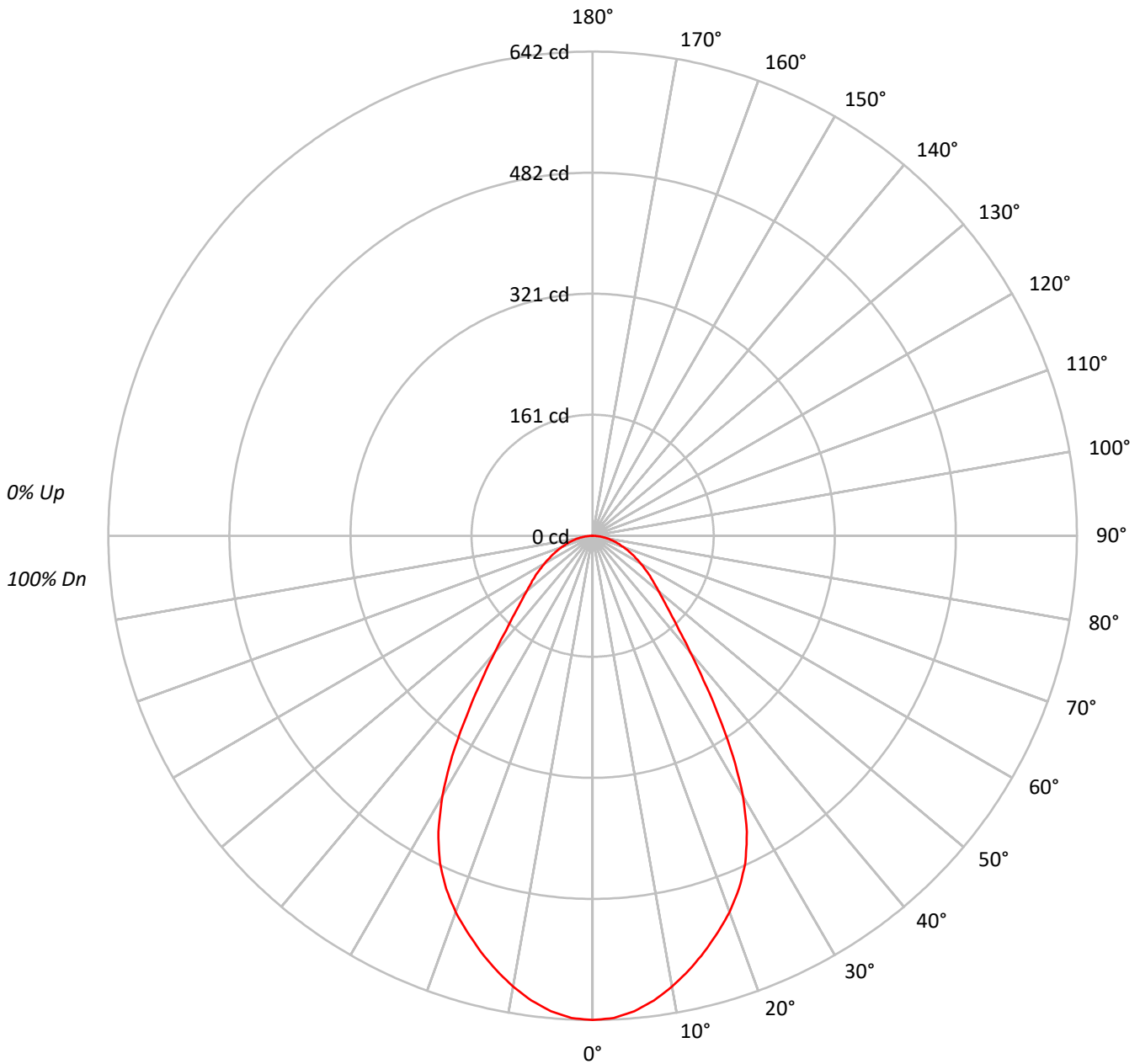
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	53	48	44	43			
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62568
5°	61927
10°	60070
15°	57652
20°	55061
25°	51498
30°	44823
35°	34586
40°	25597
45°	20136
50°	17300
55°	15734
60°	14346
65°	13260
70°	12253
75°	11485
80°	10664
85°	10064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	6.5
10°-20°	160.6	17.5
20°-30°	217.3	23.7
30°-40°	182.6	19.9
40°-50°	115.5	12.6
50°-60°	83.0	9.0
60°-70°	57.1	6.2
70°-80°	32.3	3.5
80°-90°	9.9	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°	437.5	47.7
0°-40°	620.1	67.5
0°-60°	818.6	89.2
0°-90°	918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	642	
5°	633	60
15°	571	161
25°	479	217
35°	291	183
45°	146	116
55°	93	83
65°	58	57
75°	30	32
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	642.0
2.5°	640.0
5°	633.0
7.5°	621.5
10°	607.0
12.5°	590.0
15°	571.4
17.5°	551.4
20°	530.9
22.5°	506.9
25°	478.9
27.5°	442.8
30°	398.3
32.5°	346.3
35°	290.7
37.5°	241.7
40°	201.2
42.5°	169.6
45°	146.1
47.5°	128.1
50°	114.1
52.5°	102.6
55°	92.6
57.5°	82.6
60°	73.6
62.5°	65.1
65°	57.5
67.5°	50.0
70°	43.0
72.5°	36.5
75°	30.5
77.5°	24.5
80°	19.0
82.5°	14.0
85°	9.0
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)