

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: P251978

Luminaire Tested: **LD4B10D010 EU4B10209027 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251978
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 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: 1056.0 lumens
Efficiency: N/A
Efficacy: 105.1 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

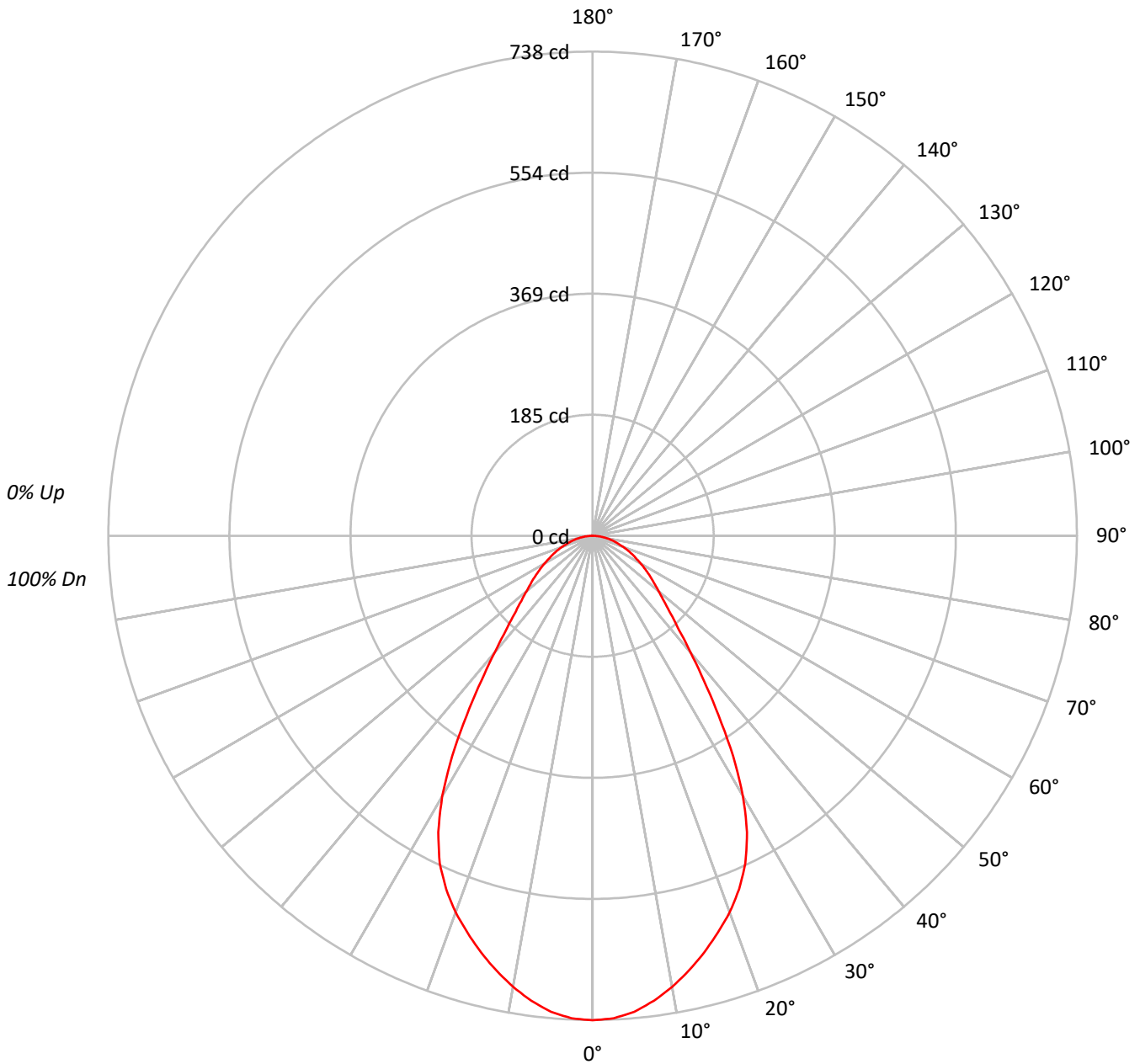
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	54	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°	71973
5°	71240
10°	69095
15°	66319
20°	63337
25°	59240
30°	51563
35°	39785
40°	29439
45°	23169
50°	19892
55°	18096
60°	16490
65°	15266
70°	14105
75°	13217
80°	12291
85°	11629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	6.5
10°-20°	184.7	17.5
20°-30°	250.0	23.7
30°-40°	210.0	19.9
40°-50°	132.9	12.6
50°-60°	95.5	9.0
60°-70°	65.7	6.2
70°-80°	37.2	3.5
80°-90°	11.4	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°	503.2	47.7
0°-40°	713.3	67.5
0°-60°	941.7	89.2
0°-90°	1056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	738	
5°	728	69
15°	657	185
25°	551	250
35°	334	210
45°	168	133
55°	106	95
65°	66	66
75°	35	37
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	738.5
2.5°	736.2
5°	728.2
7.5°	714.9
10°	698.2
12.5°	678.6
15°	657.3
17.5°	634.3
20°	610.7
22.5°	583.1
25°	550.9
27.5°	509.4
30°	458.2
32.5°	398.3
35°	334.4
37.5°	278.0
40°	231.4
42.5°	195.1
45°	168.1
47.5°	147.4
50°	131.2
52.5°	118.0
55°	106.5
57.5°	95.0
60°	84.6
62.5°	74.8
65°	66.2
67.5°	57.6
70°	49.5
72.5°	42.0
75°	35.1
77.5°	28.2
80°	21.9
82.5°	16.1
85°	10.4
87.5°	4.6
90°	0.0



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— 0°-180°







(END OF REPORT)