

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: P251987

Luminaire Tested: **LD4B15D010 EU4B10208035 4LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251987
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 EU4B10208035 4LBBA1MW
Description: PORTFOLIO 4 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 127.5 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

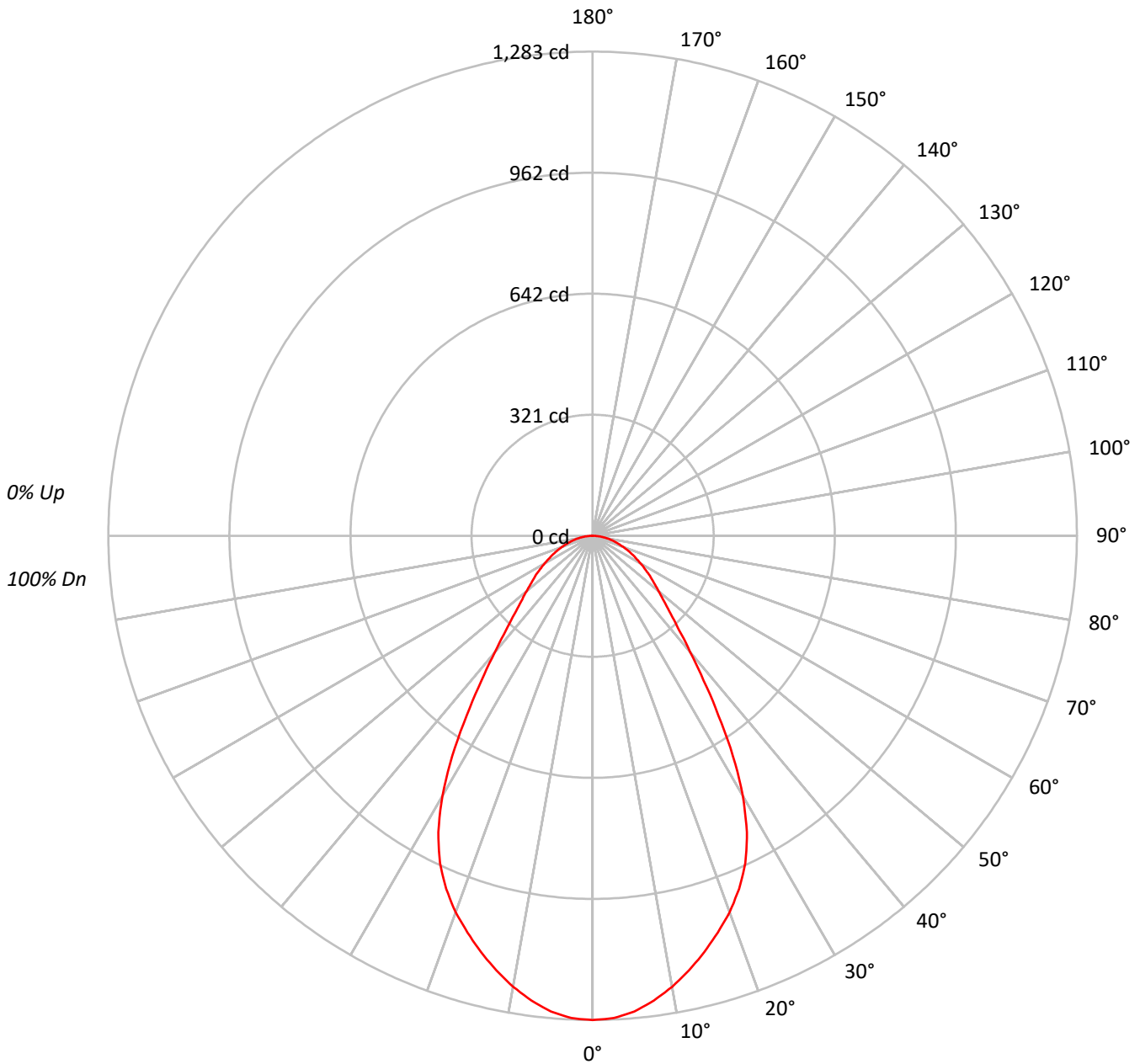
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	125068
5°	123785
10°	120070
15°	115254
20°	110070
25°	102931
30°	89600
35°	69136
40°	51156
45°	40259
50°	34584
55°	31434
60°	28653
65°	26520
70°	24506
75°	22969
80°	21327
85°	20128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	6.5
10°-20°	321.0	17.5
20°-30°	434.4	23.7
30°-40°	365.0	19.9
40°-50°	231.0	12.6
50°-60°	165.9	9.0
60°-70°	114.1	6.2
70°-80°	64.6	3.5
80°-90°	19.9	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°	874.5	47.7
0°-40°	1239.5	67.5
0°-60°	1636.3	89.2
0°-90°	1835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1283	
5°	1265	119
15°	1142	321
25°	957	434
35°	581	365
45°	292	231
55°	185	166
65°	115	114
75°	61	65
85°	18	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1283.3
2.5°	1279.3
5°	1265.3
7.5°	1242.3
10°	1213.3
12.5°	1179.3
15°	1142.3
17.5°	1102.3
20°	1061.3
22.5°	1013.2
25°	957.2
27.5°	885.2
30°	796.2
32.5°	692.2
35°	581.1
37.5°	483.1
40°	402.1
42.5°	339.1
45°	292.1
47.5°	256.1
50°	228.1
52.5°	205.0
55°	185.0
57.5°	165.0
60°	147.0
62.5°	130.0
65°	115.0
67.5°	100.0
70°	86.0
72.5°	73.0
75°	61.0
77.5°	49.0
80°	38.0
82.5°	28.0
85°	18.0
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)