

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: P232474

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0WHH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27688)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0WHH
Description: 4" MEDIUM D2W Dimmed to 3000K, with Wheat Haze trim
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 625.4 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.86
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

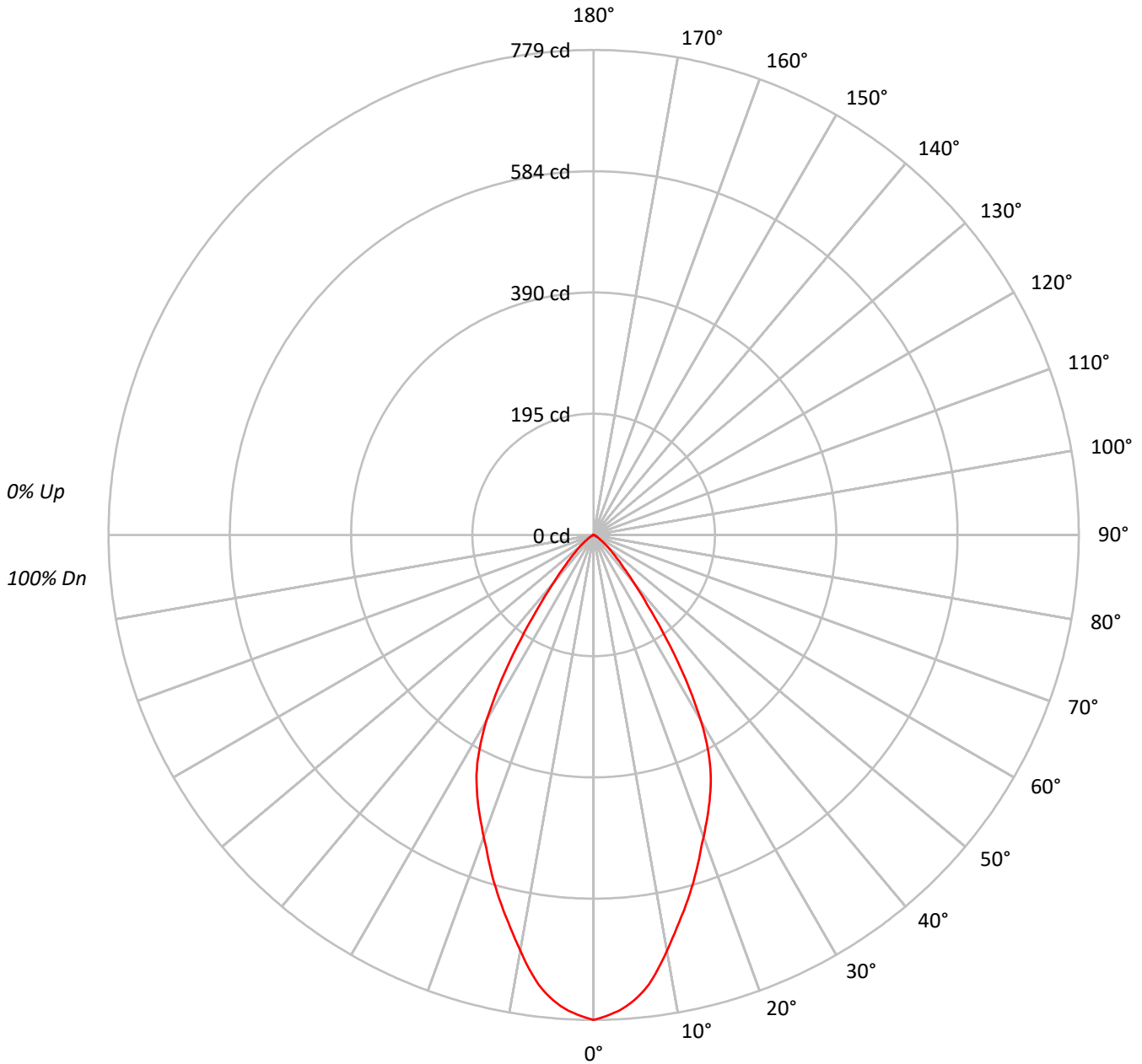
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65
7	83	74	68	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96100
5°	92901
10°	84958
15°	76160
20°	67745
25°	60551
30°	49010
35°	30477
40°	15989
45°	8984
50°	5373
55°	2774
60°	1505
65°	876
70°	541
75°	381
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	11.1
10°-20°	166.5	26.6
20°-30°	201.2	32.2
30°-40°	128.9	20.6
40°-50°	42.7	6.8
50°-60°	12.8	2.0
60°-70°	3.3	0.5
70°-80°	0.6	0.1
80°-90°	0.0	0.0
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°	437.1	69.9
0°-40°	565.9	90.5
0°-60°	621.4	99.4
0°-90°	625.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	779	
5°	750	69
15°	596	167
25°	445	201
35°	202	129
45°	52	43
55°	13	13
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	779.1
1°	775.3
2°	770.8
3°	765.5
4°	758.6
5°	750.3
6°	739.7
7°	727.6
8°	712.4
9°	695.7
10°	678.3
11°	660.9
12°	644.2
13°	628.3
14°	612.4
15°	596.4
16°	580.5
17°	563.9
18°	547.2
19°	530.5
20°	516.1
21°	501.7
22°	488.1
23°	473.7
24°	459.3
25°	444.9
26°	429.0
27°	411.5
28°	391.1
29°	369.1
30°	344.1
32.5°	274.4
35°	202.4
37.5°	141.7
40°	99.3
42.5°	71.2
45°	51.5
47.5°	37.9
50°	28.0
52.5°	18.9
55°	12.9
57.5°	9.1
60°	6.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	2.3
70°	1.5
72.5°	0.8
75°	0.8
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







62.5°		4.5
65°		3.0



(END OF REPORT)