

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: P232469

Luminaire Tested: **LD4B10D010 EU4B10209030D2W 4LBM0GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P232469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27690)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10209030D2W 4LBM0GPH
Description: 4" MEDIUM D2W Dimmed to 3000K, with Graphite Haze trim
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 464.7 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.87
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

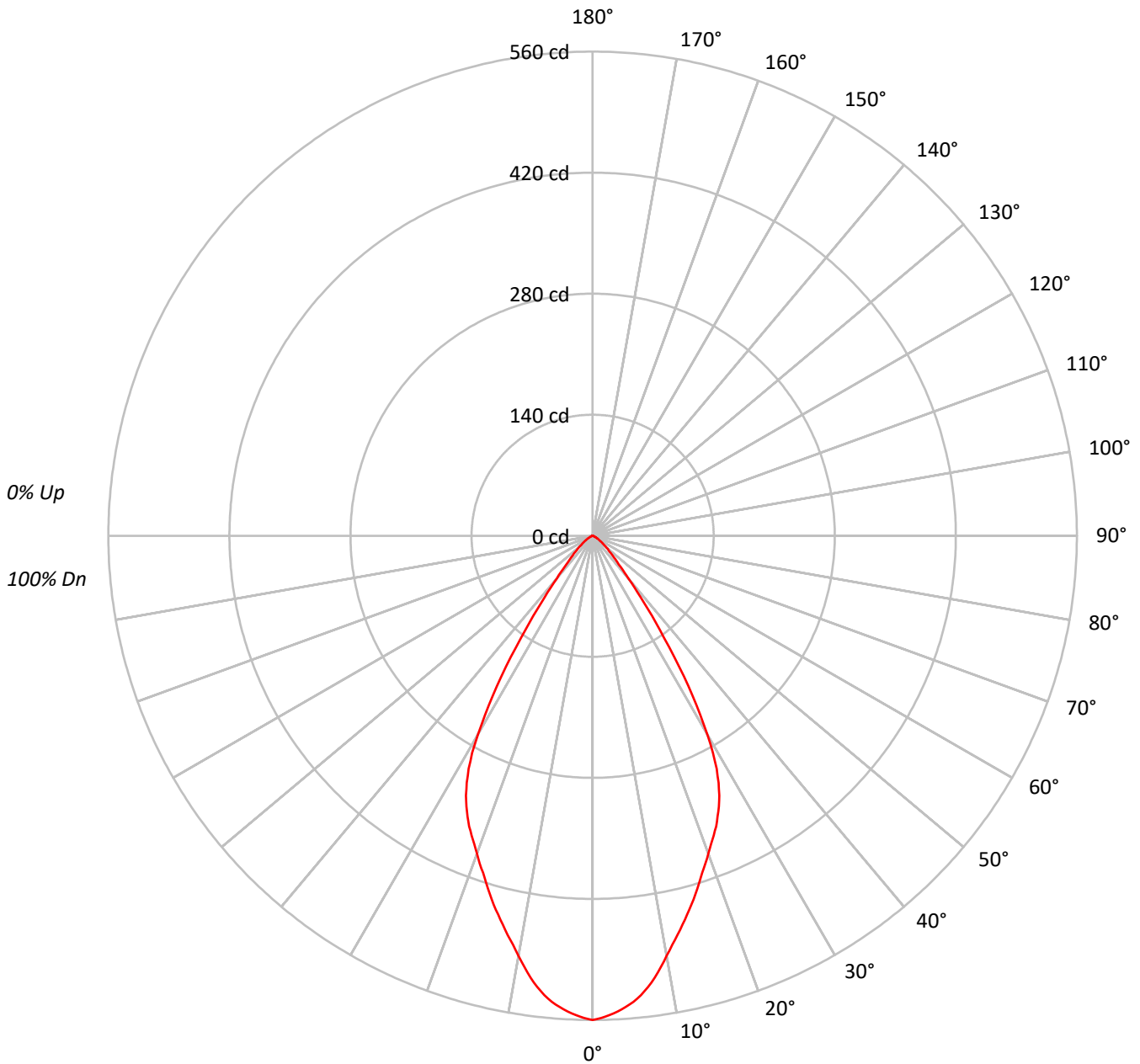
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P232469

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P232469

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0GPH

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	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	59	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°	69087
5°	66998
10°	61799
15°	56417
20°	51337
25°	47036
30°	37787
35°	21684
40°	10370
45°	5809
50°	3780
55°	2452
60°	1505
65°	876
70°	289
75°	381
80°	0
85°	0



TEST NUMBER: P232469

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	10.8
10°-20°	123.6	26.6
20°-30°	155.6	33.5
30°-40°	93.4	20.1
40°-50°	27.8	6.0
50°-60°	10.6	2.3
60°-70°	3.1	0.7
70°-80°	0.5	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°	329.3	70.9
0°-40°	422.7	91.0
0°-60°	461.1	99.2
0°-90°	464.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	560	
5°	541	50
15°	442	124
25°	346	156
35°	144	93
45°	33	28
55°	11	11
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P232469

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	560.1
1°	557.8
2°	554.8
3°	551.0
4°	546.4
5°	541.1
6°	534.3
7°	526.0
8°	516.1
9°	504.7
10°	493.4
11°	482.0
12°	472.2
13°	461.5
14°	451.7
15°	441.8
16°	431.2
17°	420.6
18°	410.0
19°	400.9
20°	391.1
21°	382.0
22°	373.6
23°	365.3
24°	355.4
25°	345.6
26°	334.2
27°	320.6
28°	305.4
29°	287.2
30°	265.3
32.5°	206.1
35°	144.0
37.5°	96.3
40°	64.4
42.5°	44.7
45°	33.3
47.5°	25.8
50°	19.7
52.5°	15.2
55°	11.4
57.5°	8.3
60°	6.1



TEST NUMBER: P232469

CATALOG NUMBER: LD4B10D010 EU4B10209030D2W 4LBM0GPH

CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.5
70°	0.8
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







62.5°		4.5
65°		3.0



(END OF REPORT)