

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: P205989

Luminaire Tested: **LD4B10D010 EU4B10208027 4LBSB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P205989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B10D010 EU4B10208027 4LBSB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SPECULAR BLACK TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 886.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.3
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

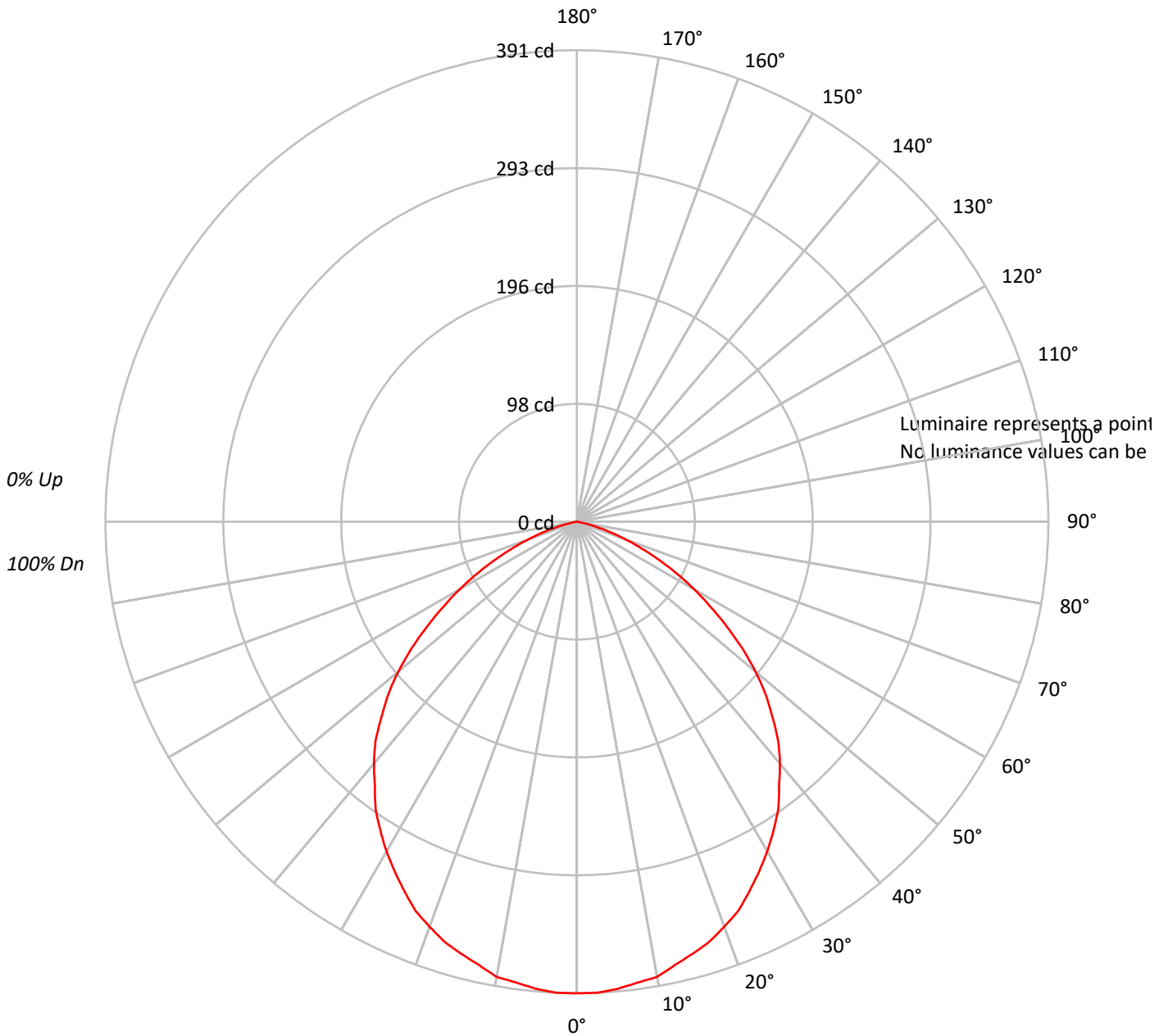
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P205989

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBSB1

Luminous Intensity Polar Plot





TEST NUMBER: P205989

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBSB1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88				88
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76				76
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65				65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57				57
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44				44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39				39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P205989

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBSB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	4.2
10°-20°	104.7	11.8
20°-30°	155.8	17.6
30°-40°	181.3	20.5
40°-50°	176.7	19.9
50°-60°	135.9	15.3
60°-70°	75.1	8.5
70°-80°	19.9	2.2
80°-90°	0.1	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°	297.5	33.6
0°-40°	478.8	54.0
0°-60°	791.5	89.3
0°-90°	886.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	391	
5°	389	37
15°	371	105
25°	338	156
35°	291	181
45°	229	177
55°	152	136
65°	75	75
75°	17	20
85°	0	0
90°	0	



TEST NUMBER: P205989

CATALOG NUMBER: LD4B10D010 EU4B10208027 4LBSB1

CANDELA DISTRIBUTION (FULL):

	0°
0°	391.1
2.5°	391.1
5°	388.9
7.5°	385.5
10°	383.3
12.5°	376.5
15°	370.9
17.5°	365.3
20°	357.4
22.5°	349.6
25°	338.3
27.5°	327.1
30°	315.8
32.5°	303.5
35°	291.1
37.5°	275.4
40°	261.9
42.5°	247.3
45°	229.3
47.5°	212.4
50°	193.3
52.5°	173.1
55°	151.7
57.5°	131.5
60°	112.4
62.5°	93.3
65°	75.3
67.5°	58.4
70°	42.7
72.5°	29.2
75°	16.9
77.5°	7.9
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)