

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: P206409

Luminaire Tested: **LD4B10D010 EU4B10208050 4LBCSMB1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206409
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 EU4B10208050 4LBCSMB1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 1086.8 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

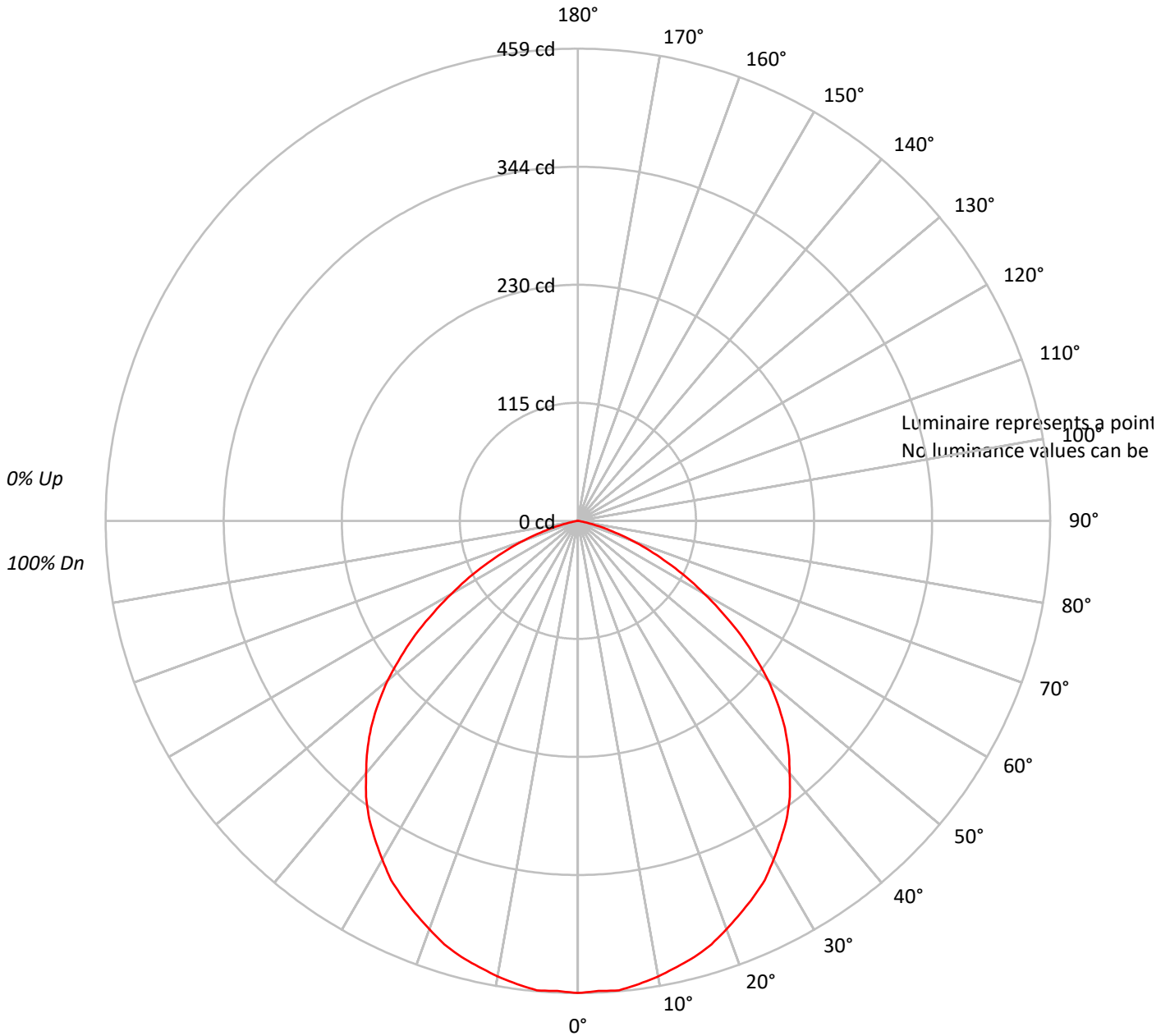
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206409

CATALOG NUMBER: LD4B10D010 EU4B10208050 4LBCSMB1

Luminous Intensity Polar Plot





TEST NUMBER: P206409

CATALOG NUMBER: LD4B10D010 EU4B10208050 4LBCSMB1

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			100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			88
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75			75
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65			65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56			56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39			39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			28

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206409

CATALOG NUMBER: LD4B10D010 EU4B10208050 4LBCSMB1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	4.0
10°-20°	123.7	11.4
20°-30°	185.9	17.1
30°-40°	220.6	20.3
40°-50°	218.3	20.1
50°-60°	171.4	15.8
60°-70°	96.1	8.8
70°-80°	27.0	2.5
80°-90°	0.4	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°	353.0	32.5
0°-40°	573.6	52.8
0°-60°	963.3	88.6
0°-90°	1086.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1086.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	459	
5°	458	43
15°	439	124
25°	404	186
35°	354	221
45°	284	218
55°	193	171
65°	96	96
75°	23	27
85°	0	0
90°	0	



TEST NUMBER: P206409

CATALOG NUMBER: LD4B10D010 EU4B10208050 4LBCSMB1

CANDELA DISTRIBUTION (FULL):

0°	
0°	458.9
2.5°	457.4
5°	458.1
7.5°	454.2
10°	449.6
12.5°	444.1
15°	438.7
17.5°	431.7
20°	422.3
22.5°	413.0
25°	403.6
27.5°	393.5
30°	380.2
32.5°	367.0
35°	353.7
37.5°	338.2
40°	320.2
42.5°	303.1
45°	284.4
47.5°	263.4
50°	241.5
52.5°	216.6
55°	193.2
57.5°	166.7
60°	141.8
62.5°	119.2
65°	95.8
67.5°	75.6
70°	56.1
72.5°	38.2
75°	23.4
77.5°	11.7
80°	3.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)