

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: P206313

Luminaire Tested: **LD4B10D010 EU4B10209730 4LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P206313
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 EU4B10209730 4LBCSMW1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 836.1 lumens
Efficiency: N/A
Efficacy: 84.5 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

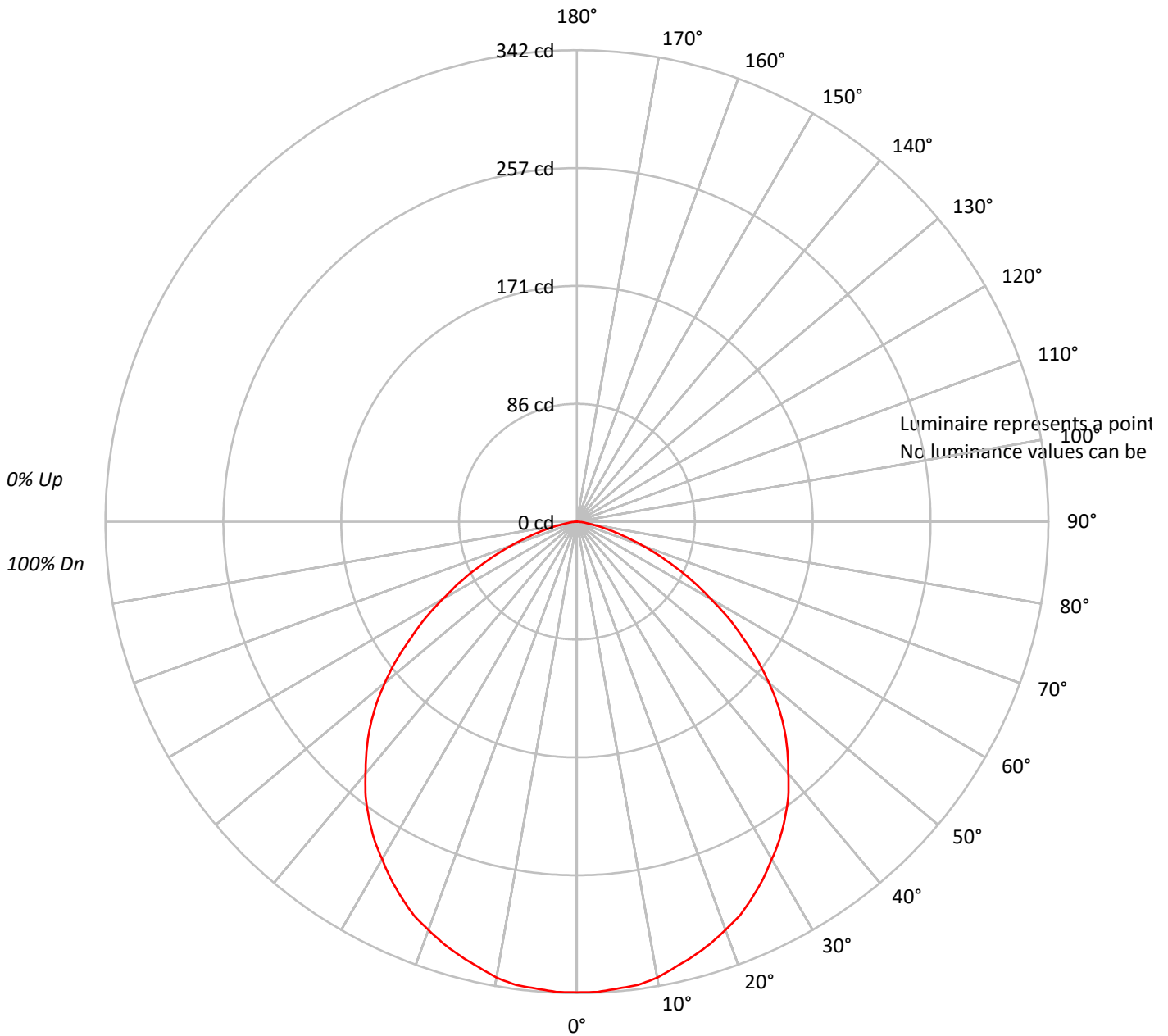
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P206313

CATALOG NUMBER: LD4B10D010 EU4B10209730 4LBCSMW1

Luminous Intensity Polar Plot





TEST NUMBER: P206313

CATALOG NUMBER: LD4B10D010 EU4B10209730 4LBCSMW1

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74			74
3	93	83	75	70	90	81	74	69	79	73	68	76	71	67	73	69	65	63			63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55			55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48			48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42			42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37			37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33			33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30			30
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27			27

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P206313

CATALOG NUMBER: LD4B10D010 EU4B10209730 4LBCSMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	3.9
10°-20°	92.1	11.0
20°-30°	138.6	16.6
30°-40°	164.2	19.6
40°-50°	163.4	19.5
50°-60°	131.7	15.8
60°-70°	79.7	9.5
70°-80°	29.6	3.5
80°-90°	4.4	0.5
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°	263.0	31.5
0°-40°	427.2	51.1
0°-60°	722.4	86.4
0°-90°	836.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	342	
5°	340	32
15°	326	92
25°	301	139
35°	263	164
45°	213	163
55°	147	132
65°	80	80
75°	27	30
85°	4	4
90°	0	



TEST NUMBER: P206313

CATALOG NUMBER: LD4B10D010 EU4B10209730 4LBCSMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	341.5
2.5°	341.5
5°	340.0
7.5°	339.0
10°	335.9
12.5°	330.8
15°	326.3
17.5°	321.2
20°	315.1
22.5°	309.1
25°	301.0
27.5°	292.3
30°	282.7
32.5°	273.6
35°	263.0
37.5°	251.8
40°	238.6
42.5°	226.0
45°	212.8
47.5°	198.1
50°	181.9
52.5°	165.2
55°	146.9
57.5°	130.7
60°	112.5
62.5°	96.3
65°	80.1
67.5°	64.9
70°	50.7
72.5°	38.0
75°	26.9
77.5°	17.2
80°	10.1
82.5°	6.1
85°	3.5
87.5°	1.5
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)