

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: P208370

Luminaire Tested: **LD4B15D010 EU4B10208035 4LBSLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208370
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: LD4B15D010 EU4B10208035 4LBSLI1
Description: PORTFOLIO 4 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-14.39W DE010-14.29W D5LT-14.34W DMX-14.46W DL2-15.8W
DL3-15.28W DLE-15.432W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1569.7 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

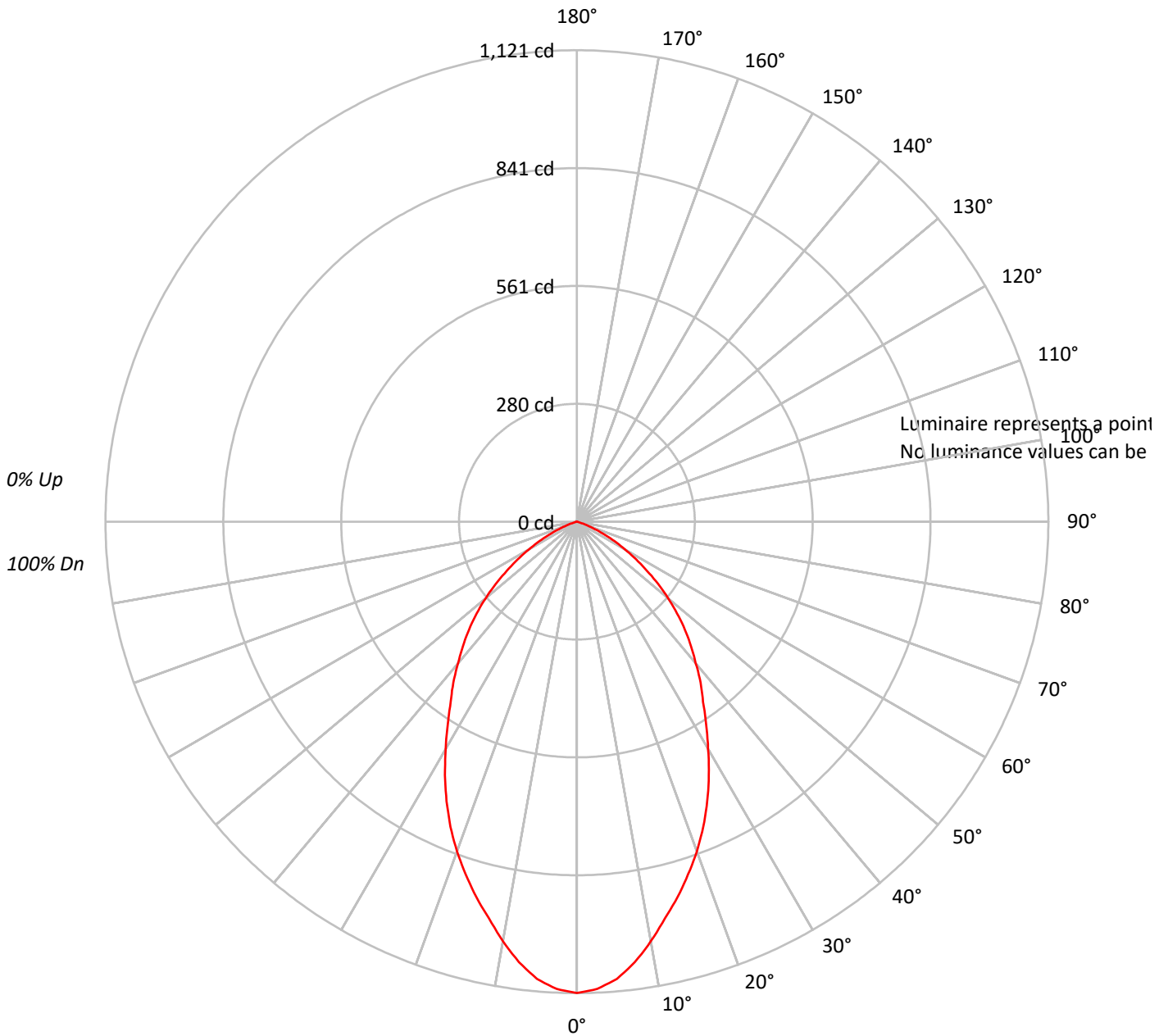
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208370

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSLI1

Luminous Intensity Polar Plot





TEST NUMBER: P208370

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSLI1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80																			
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71																			
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63																			
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57																			
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51																			
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208370

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSLI1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	6.5
10°-20°	259.2	16.5
20°-30°	335.9	21.4
30°-40°	329.1	21.0
40°-50°	278.9	17.8
50°-60°	182.9	11.6
60°-70°	73.5	4.7
70°-80°	8.4	0.5
80°-90°	0.2	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°	696.7	44.4
0°-40°	1025.7	65.3
0°-60°	1487.5	94.8
0°-90°	1569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1121	
5°	1091	102
15°	924	259
25°	733	336
35°	523	329
45°	363	279
55°	203	183
65°	71	73
75°	4	8
85°	0	0
90°	0	



TEST NUMBER: P208370

CATALOG NUMBER: LD4B15D010 EU4B10208035 4LBSL11

CANDELA DISTRIBUTION (FULL):

	0°
0°	1120.8
2.5°	1112.1
5°	1091.3
7.5°	1056.5
10°	1013.1
12.5°	966.1
15°	924.4
17.5°	879.3
20°	834.1
22.5°	785.4
25°	733.3
27.5°	679.4
30°	623.8
32.5°	571.7
35°	523.0
37.5°	483.1
40°	439.6
42.5°	401.4
45°	363.2
47.5°	323.2
50°	283.2
52.5°	243.3
55°	203.3
57.5°	166.8
60°	132.1
62.5°	100.8
65°	71.2
67.5°	46.9
70°	27.8
72.5°	12.2
75°	3.5
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)