

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: P211068

Luminaire Tested: **LE_4B15D010 EC4B10209024 4LBM1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211068
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: LE_4B15D010 EC4B10209024 4LBM1H
Description: PORTFOLIO 4 INCH CYLINDER
MEDIUM DISTRIBUTION WITH SEMI-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

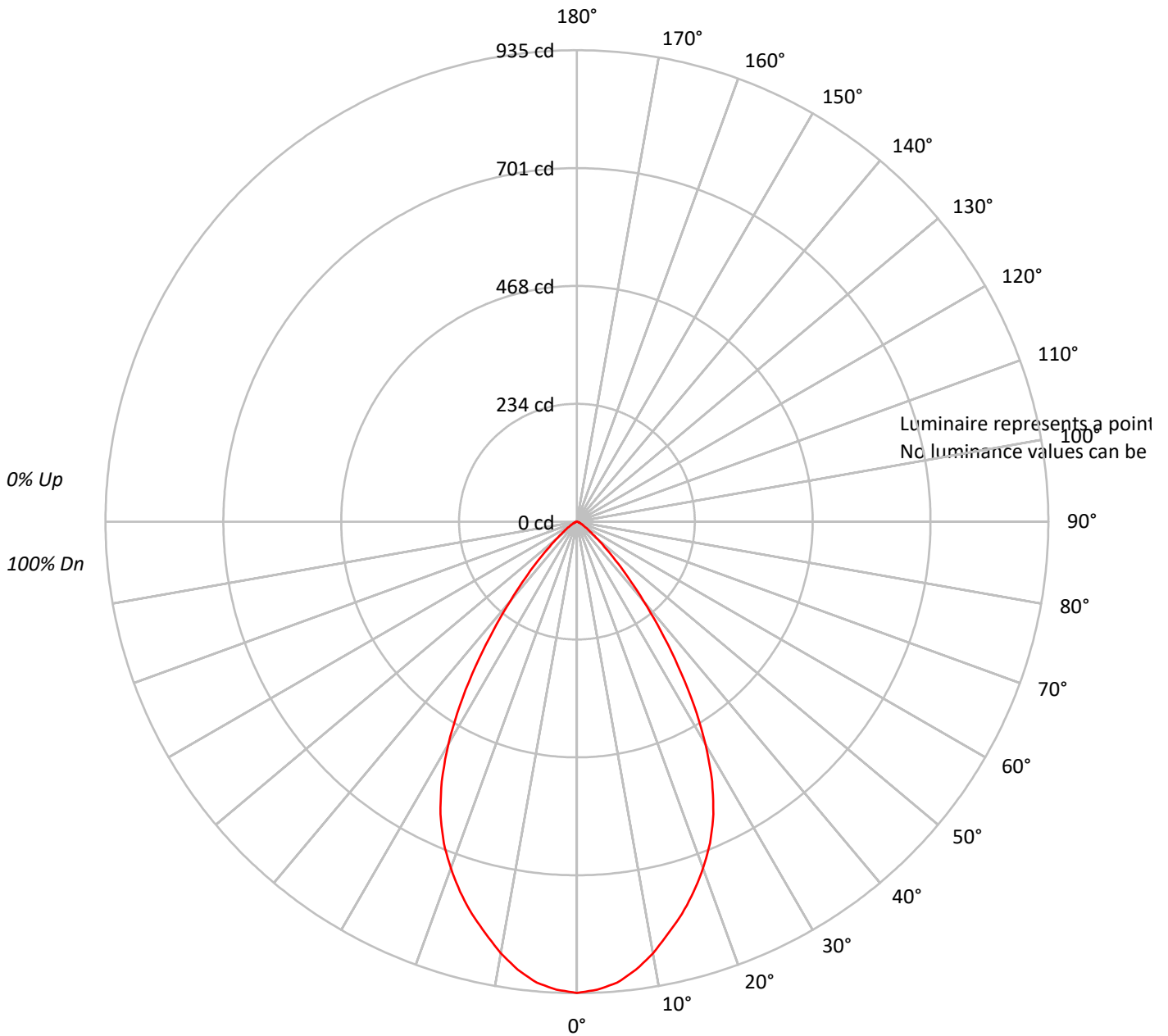
Lumens per Lamp: N/A
Luminaire Lumens: 942.8 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

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: P211068
CATALOG NUMBER: LE_4B15D010 EC4B10209024 4LBM1H

Luminous Intensity Polar Plot





TEST NUMBER: P211068

CATALOG NUMBER: LE_4B15D010 EC4B10209024 4LBM1H

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73			73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67			67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211068

CATALOG NUMBER: LE_4B15D010 EC4B10209024 4LBM1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	9.1
10°-20°	225.7	23.9
20°-30°	290.0	30.8
30°-40°	218.2	23.1
40°-50°	87.6	9.3
50°-60°	24.9	2.6
60°-70°	7.9	0.8
70°-80°	2.2	0.2
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°	601.7	63.8
0°-40°	819.9	87.0
0°-60°	932.4	98.9
0°-90°	942.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	935	
5°	918	86
15°	805	226
25°	640	290
35°	350	218
45°	108	88
55°	26	25
65°	7	8
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P211068

CATALOG NUMBER: LE_4B15D010 EC4B10209024 4LBM1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	934.8
2.5°	929.0
5°	917.7
7.5°	896.3
10°	869.3
12.5°	836.6
15°	805.3
17.5°	769.8
20°	731.4
22.5°	690.1
25°	640.3
27.5°	580.5
30°	510.7
32.5°	432.6
35°	350.0
37.5°	273.2
40°	204.9
42.5°	150.8
45°	108.1
47.5°	74.0
50°	51.3
52.5°	35.6
55°	25.6
57.5°	18.4
60°	14.3
62.5°	10.0
65°	7.1
67.5°	5.7
70°	4.3
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)