

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: P211123

Luminaire Tested: **LE_4B15D010 EC4B10209027 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211123
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 EC4B10209027 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1486.7 lumens
Efficiency: N/A
Efficacy: 104.0 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

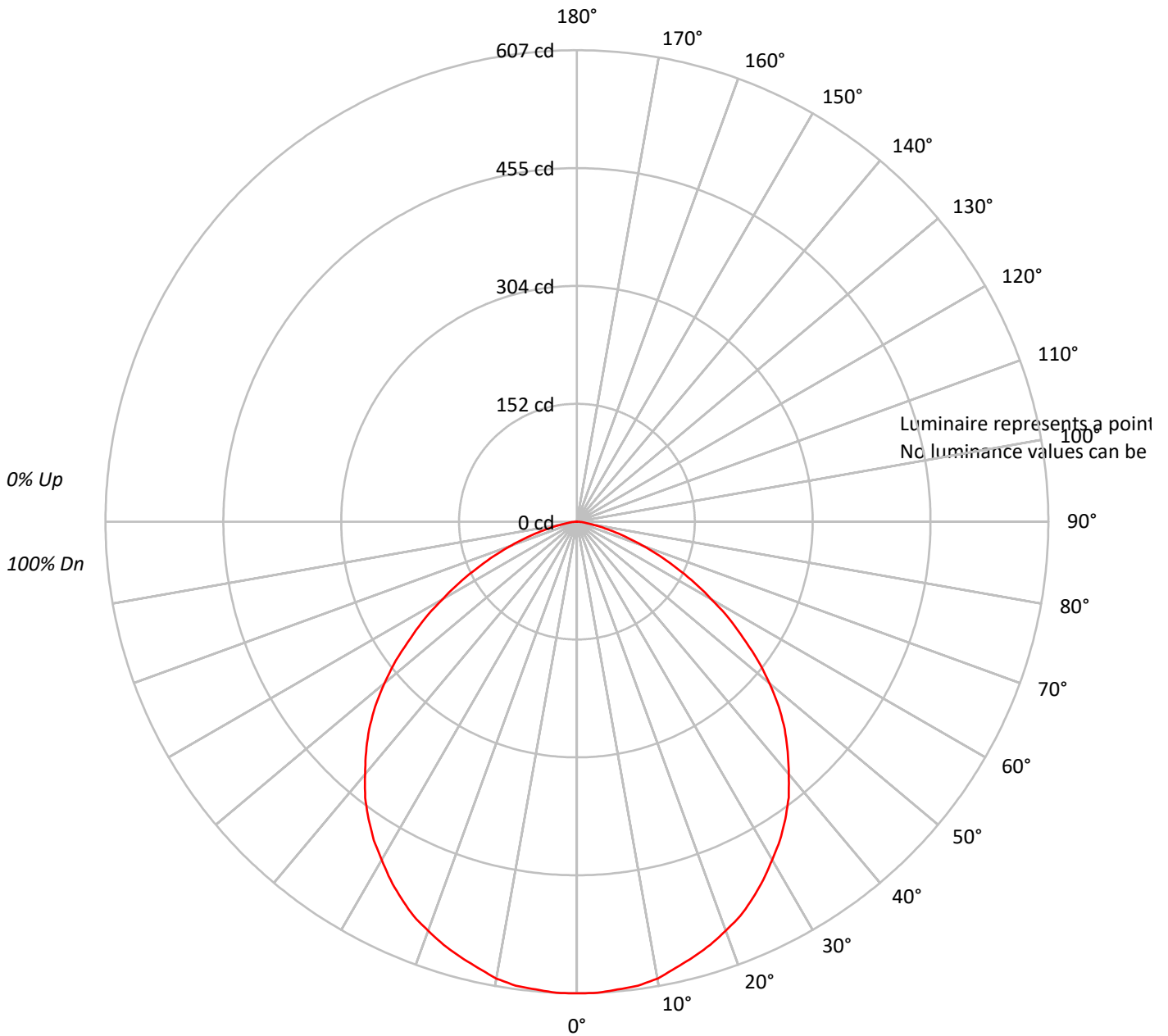
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211123

CATALOG NUMBER: LE_4B15D010 EC4B10209027 4LBCS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P211123

CATALOG NUMBER: LE_4B15D010 EC4B10209027 4LBCS1MW

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	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: P211123

CATALOG NUMBER: LE_4B15D010 EC4B10209027 4LBCS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.9
10°-20°	163.8	11.0
20°-30°	246.4	16.6
30°-40°	292.0	19.6
40°-50°	290.6	19.5
50°-60°	234.2	15.8
60°-70°	141.7	9.5
70°-80°	52.6	3.5
80°-90°	7.8	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°	467.7	31.5
0°-40°	759.7	51.1
0°-60°	1284.6	86.4
0°-90°	1486.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	607	
5°	605	58
15°	580	164
25°	535	246
35°	468	292
45°	378	291
55°	261	234
65°	142	142
75°	48	53
85°	6	8
90°	0	



TEST NUMBER: P211123

CATALOG NUMBER: LE_4B15D010 EC4B10209027 4LBCS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	607.3
2.5°	607.3
5°	604.6
7.5°	602.7
10°	597.3
12.5°	588.4
15°	580.2
17.5°	571.2
20°	560.4
22.5°	549.6
25°	535.2
27.5°	519.9
30°	502.7
32.5°	486.5
35°	467.6
37.5°	447.8
40°	424.3
42.5°	401.8
45°	378.4
47.5°	352.3
50°	323.4
52.5°	293.7
55°	261.2
57.5°	232.5
60°	200.0
62.5°	171.2
65°	142.3
67.5°	115.3
70°	90.1
72.5°	67.6
75°	47.8
77.5°	30.6
80°	18.0
82.5°	10.8
85°	6.3
87.5°	2.7
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)