

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: P211380

Luminaire Tested: **LE_4B15D010 EC4B10209040 4LBW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211380
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 EC4B10209040 4LBW1MW
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH 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: 1314.6 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

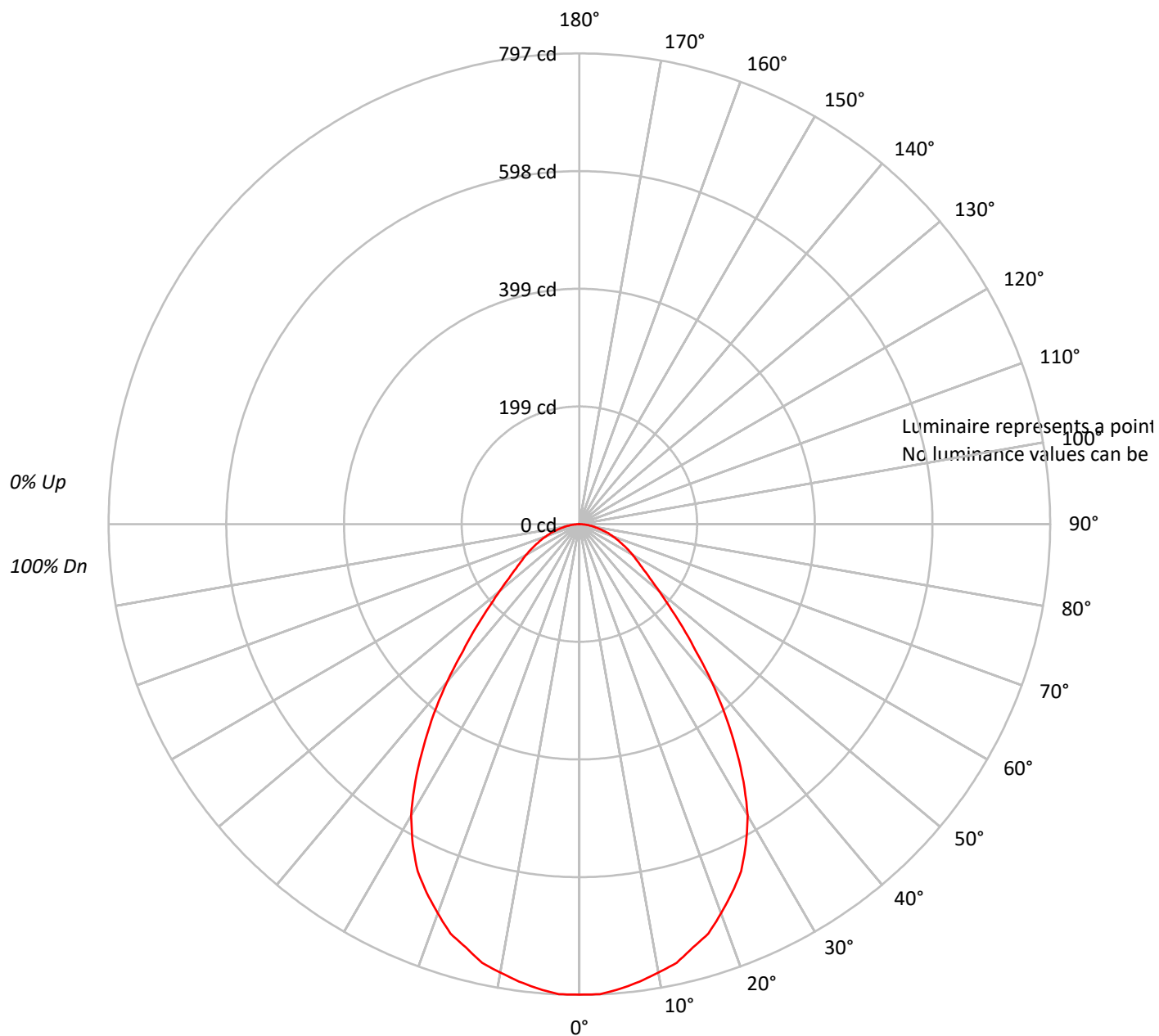
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211380

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P211380

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBW1MW

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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61			
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50			
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38			
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211380

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	5.7
10°-20°	209.2	15.9
20°-30°	295.6	22.5
30°-40°	286.4	21.8
40°-50°	193.2	14.7
50°-60°	119.9	9.1
60°-70°	80.1	6.1
70°-80°	43.8	3.3
80°-90°	11.6	0.9
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°	579.6	44.1
0°-40°	865.9	65.9
0°-60°	1179.0	89.7
0°-90°	1314.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	797	
5°	790	75
15°	742	209
25°	648	296
35°	461	286
45°	247	193
55°	131	120
65°	80	80
75°	41	44
85°	10	12
90°	0	



TEST NUMBER: P211380

CATALOG NUMBER: LE_4B15D010 EC4B10209040 4LBW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	796.7
2.5°	796.7
5°	789.8
7.5°	781.3
10°	771.1
12.5°	760.8
15°	742.1
17.5°	726.7
20°	701.1
22.5°	675.6
25°	648.2
27.5°	610.7
30°	569.8
32.5°	516.9
35°	460.6
37.5°	404.3
40°	348.0
42.5°	291.7
45°	247.3
47.5°	206.4
50°	175.7
52.5°	150.1
55°	131.3
57.5°	116.0
60°	104.1
62.5°	92.1
65°	80.2
67.5°	69.9
70°	59.7
72.5°	51.2
75°	40.9
77.5°	32.4
80°	23.9
82.5°	17.1
85°	10.2
87.5°	3.4
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)