

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: P211105

Luminaire Tested: **LE_4B15D010 EC4B10208027 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211105
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 EC4B10208027 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW 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: 1184.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

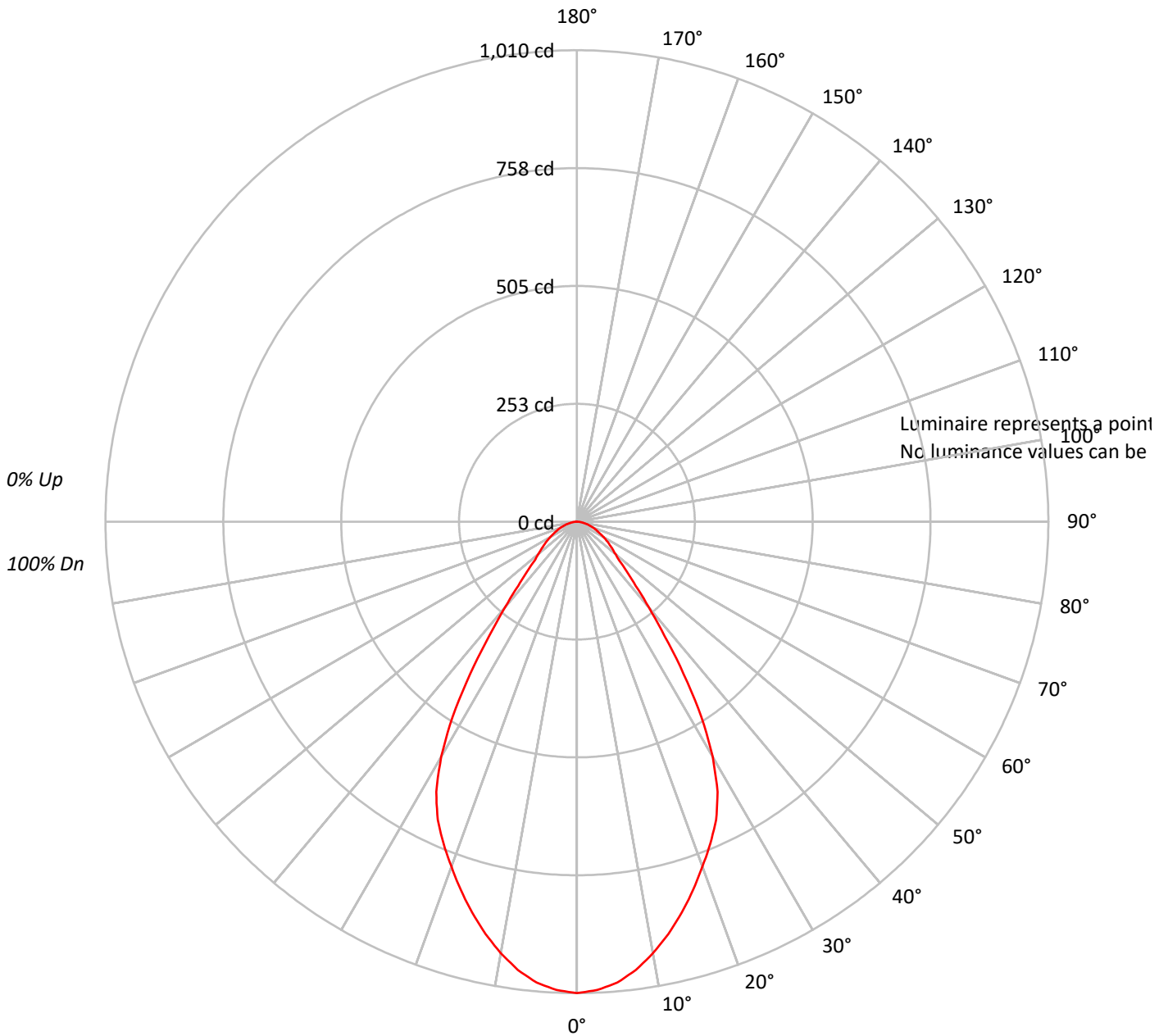
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211105

CATALOG NUMBER: LE_4B15D010 EC4B10208027 4LBN1MW

Luminous Intensity Polar Plot





TEST NUMBER: P211105

CATALOG NUMBER: LE_4B15D010 EC4B10208027 4LBN1MW

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			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48			
9	69	58	51	46	68	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211105

CATALOG NUMBER: LE_4B15D010 EC4B10208027 4LBN1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	7.8
10°-20°	243.1	20.5
20°-30°	320.0	27.0
30°-40°	249.1	21.0
40°-50°	121.0	10.2
50°-60°	76.4	6.5
60°-70°	49.3	4.2
70°-80°	25.8	2.2
80°-90°	6.4	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°	656.0	55.4
0°-40°	905.1	76.4
0°-60°	1102.5	93.1
0°-90°	1184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1184.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1010	
5°	991	93
15°	867	243
25°	705	320
35°	399	249
45°	150	121
55°	85	76
65°	49	49
75°	24	26
85°	6	6
90°	0	



TEST NUMBER: P211105

CATALOG NUMBER: LE_4B15D010 EC4B10208027 4LBN1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	1010.0
2.5°	1004.3
5°	991.2
7.5°	968.6
10°	938.6
12.5°	904.7
15°	867.1
17.5°	827.5
20°	786.2
22.5°	746.7
25°	705.3
27.5°	652.6
30°	581.2
32.5°	496.6
35°	398.7
37.5°	308.4
40°	238.8
42.5°	186.2
45°	150.5
47.5°	122.3
50°	107.2
52.5°	95.9
55°	84.7
57.5°	75.3
60°	65.8
62.5°	56.4
65°	49.0
67.5°	43.3
70°	35.7
72.5°	30.0
75°	24.5
77.5°	18.8
80°	13.1
82.5°	9.4
85°	5.7
87.5°	1.9
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)