

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: P208471

Luminaire Tested: **LD4B15D010 EU4B10208027 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208471
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 EU4B10208027 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH WHEAT 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: 939.5 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.62
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

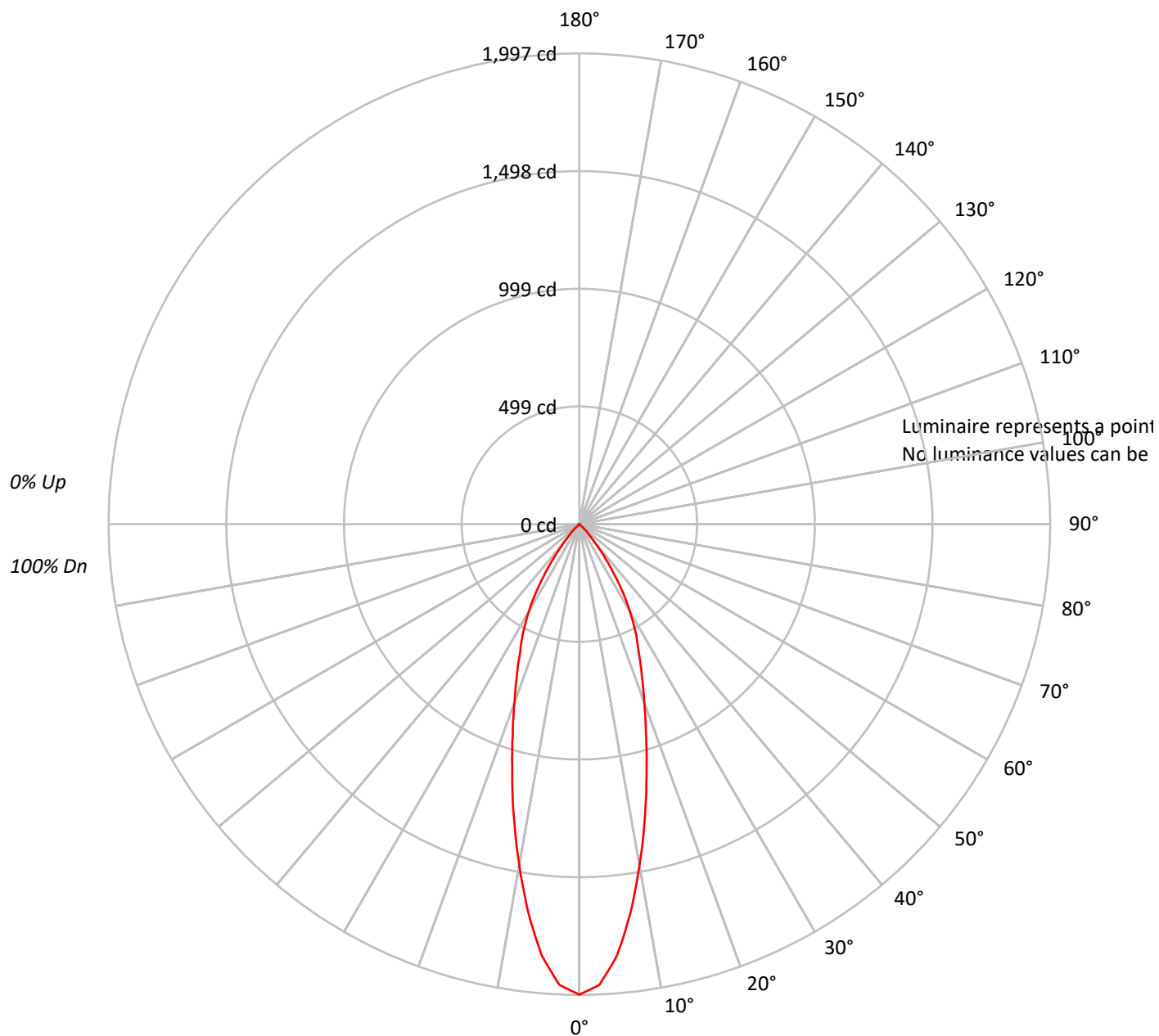
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208471

CATALOG NUMBER: LD4B15D010 EU4B10208027 4LBNWH1

Luminous Intensity Polar Plot





TEST NUMBER: P208471

CATALOG NUMBER: LD4B15D010 EU4B10208027 4LBNWH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	114	111	109	107	112	109	107	105		105	104	102			102	100	99			95
2	109	105	101	98	107	103	100	97		100	97	95			97	95	93			89
3	104	98	94	90	102	97	93	90		94	91	88			92	89	87			84
4	100	93	88	84	98	92	87	83		90	86	82			88	84	82			79
5	95	88	82	78	94	87	82	78		85	81	77			83	80	77			75
6	91	83	78	74	90	82	77	74		81	76	73			79	76	73			71
7	87	79	73	70	86	78	73	69		77	72	69			76	72	69			67
8	84	75	70	66	82	74	69	66		73	69	65			72	68	65			64
9	80	71	66	62	79	71	66	62		70	65	62			69	65	62			61
10	77	68	63	59	76	68	63	59		67	62	59			66	62	59			58

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208471

CATALOG NUMBER: LD4B15D010 EU4B10208027 4LBNWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	17.4
10°-20°	306.3	32.6
20°-30°	274.8	29.3
30°-40°	157.7	16.8
40°-50°	31.5	3.4
50°-60°	4.0	0.4
60°-70°	1.8	0.2
70°-80°	0.2	0.0
80°-90°	0.0	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°	744.4	79.2
0°-40°	902.1	96.0
0°-60°	937.5	99.8
0°-90°	939.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1997	
5°	1836	163
15°	1100	306
25°	594	275
35°	250	158
45°	34	31
55°	5	4
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P208471

CATALOG NUMBER: LD4B15D010 EU4B10208027 4LBNWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1996.7
2.5°	1956.1
5°	1836.1
7.5°	1660.9
10°	1469.5
12.5°	1281.4
15°	1099.7
17.5°	940.8
20°	804.5
22.5°	691.0
25°	593.7
27.5°	515.8
30°	429.8
32.5°	342.2
35°	249.8
37.5°	170.3
40°	105.4
42.5°	63.3
45°	34.1
47.5°	14.6
50°	6.5
52.5°	4.9
55°	4.9
57.5°	3.2
60°	3.2
62.5°	1.6
65°	1.6
67.5°	1.6
70°	1.6
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)