

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: P207972

Luminaire Tested: **LD4B15D010 EU4B10209050 4LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207972
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 EU4B10209050 4LBNMW1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
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: 929.3 lumens
Efficiency: N/A
Efficacy: 65.0 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

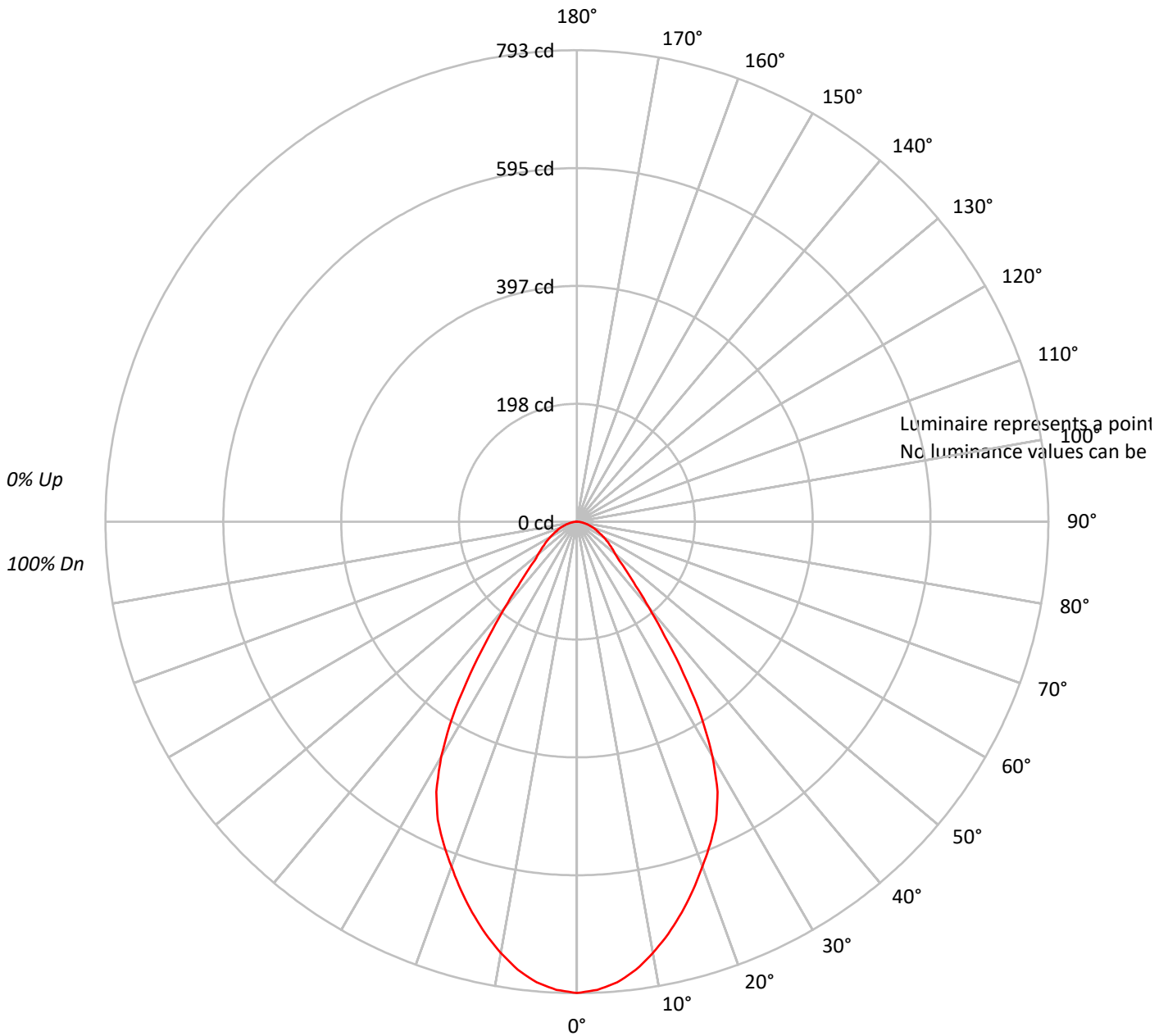
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207972

CATALOG NUMBER: LD4B15D010 EU4B10209050 4LBNMW1

Luminous Intensity Polar Plot





TEST NUMBER: P207972

CATALOG NUMBER: LD4B15D010 EU4B10209050 4LBNMW1

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: P207972

CATALOG NUMBER: LD4B15D010 EU4B10209050 4LBNMW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	7.8
10°-20°	190.8	20.5
20°-30°	251.2	27.0
30°-40°	195.5	21.0
40°-50°	95.0	10.2
50°-60°	60.0	6.5
60°-70°	38.7	4.2
70°-80°	20.2	2.2
80°-90°	5.0	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°	514.9	55.4
0°-40°	710.4	76.4
0°-60°	865.4	93.1
0°-90°	929.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	793	
5°	778	73
15°	681	191
25°	554	251
35°	313	196
45°	118	95
55°	66	60
65°	38	39
75°	19	20
85°	4	5
90°	0	



TEST NUMBER: P207972

CATALOG NUMBER: LD4B15D010 EU4B10209050 4LBNMW1

CANDELA DISTRIBUTION (FULL):

	0°
0°	792.8
2.5°	788.3
5°	778.0
7.5°	760.3
10°	736.7
12.5°	710.1
15°	680.6
17.5°	649.6
20°	617.1
22.5°	586.1
25°	553.6
27.5°	512.3
30°	456.2
32.5°	389.7
35°	313.0
37.5°	242.1
40°	187.5
42.5°	146.2
45°	118.1
47.5°	96.0
50°	84.1
52.5°	75.3
55°	66.4
57.5°	59.1
60°	51.7
62.5°	44.3
65°	38.4
67.5°	34.0
70°	28.0
72.5°	23.6
75°	19.2
77.5°	14.8
80°	10.3
82.5°	7.4
85°	4.4
87.5°	1.5
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)