

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: P207647

Luminaire Tested: **LD4B10D010 EU4B10209030 4LBNH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P207647
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: LD4B10D010 EU4B10209030 4LBNH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 573.1 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

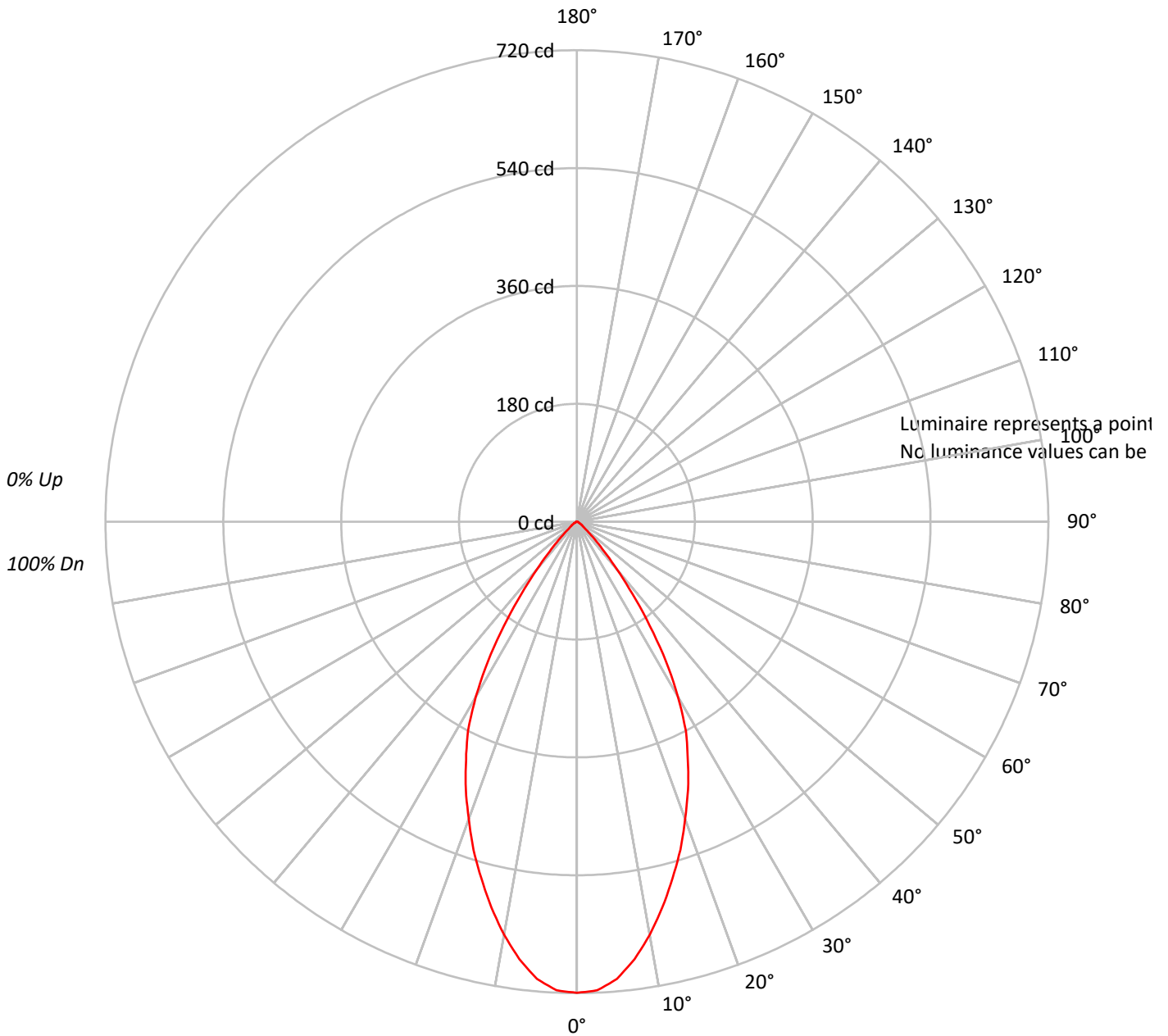
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P207647

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBNH1

Luminous Intensity Polar Plot





TEST NUMBER: P207647

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBNH1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87																			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54																			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P207647

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBNH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	11.3
10°-20°	157.5	27.5
20°-30°	182.8	31.9
30°-40°	121.1	21.1
40°-50°	34.0	5.9
50°-60°	8.5	1.5
60°-70°	3.2	0.6
70°-80°	1.1	0.2
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°	405.2	70.7
0°-40°	526.3	91.8
0°-60°	568.8	99.3
0°-90°	573.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	720	
5°	701	65
15°	564	157
25°	401	183
35°	194	121
45°	40	34
55°	9	9
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P207647

CATALOG NUMBER: LD4B10D010 EU4B10209030 4LBNH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	719.6
2.5°	716.4
5°	700.9
7.5°	673.9
10°	640.6
12.5°	603.3
15°	563.8
17.5°	525.4
20°	482.8
22.5°	443.4
25°	400.8
27.5°	360.3
30°	308.4
32.5°	253.3
35°	194.2
37.5°	139.1
40°	94.5
42.5°	61.3
45°	39.5
47.5°	23.9
50°	15.6
52.5°	11.4
55°	9.3
57.5°	7.3
60°	5.2
62.5°	4.2
65°	3.1
67.5°	2.1
70°	2.1
72.5°	1.0
75°	1.0
77.5°	1.0
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)