

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: P208466

Luminaire Tested: **LD4B10D010 EU4B10209035 4LBNWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208466
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 EU4B10209035 4LBNWH1
Description: PORTFOLIO 4 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH WHEAT 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: 611.3 lumens
Efficiency: N/A
Efficacy: 61.7 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

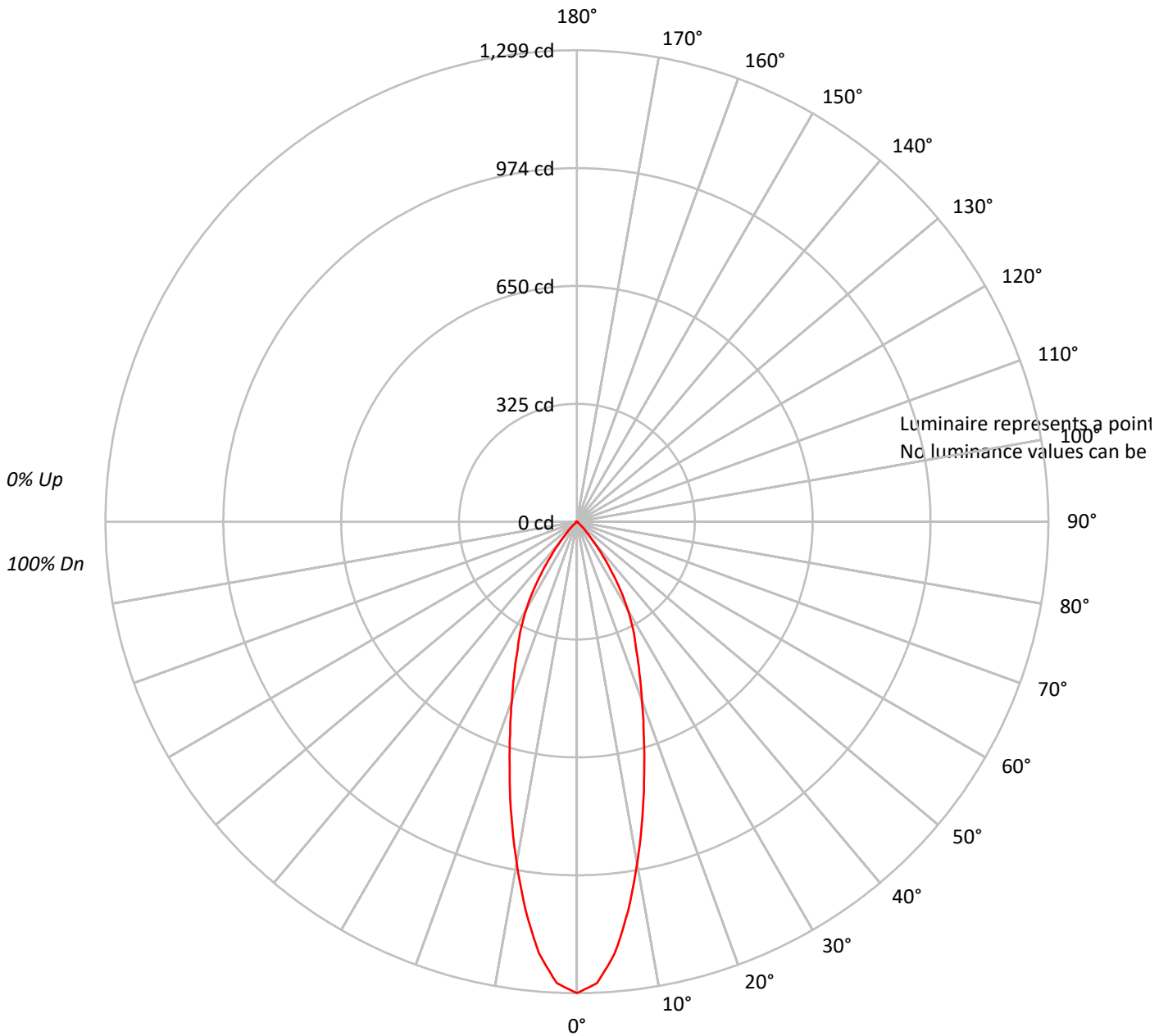
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P208466

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBNWH1

Luminous Intensity Polar Plot





TEST NUMBER: P208466

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBNWH1

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			
6	91	83	78	74	90	82	77	74	81	76	73	79	76	73	78	75	72	71			
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58			

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P208466

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBNWH1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	17.4
10°-20°	199.3	32.6
20°-30°	178.8	29.2
30°-40°	102.6	16.8
40°-50°	20.5	3.4
50°-60°	2.6	0.4
60°-70°	1.2	0.2
70°-80°	0.1	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°	484.2	79.2
0°-40°	586.8	96.0
0°-60°	609.9	99.8
0°-90°	611.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	611.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1299	
5°	1194	106
15°	715	199
25°	386	179
35°	162	103
45°	22	20
55°	3	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P208466

CATALOG NUMBER: LD4B10D010 EU4B10209035 4LBNWH1

CANDELA DISTRIBUTION (FULL):

	0°
0°	1298.9
2.5°	1272.6
5°	1194.5
7.5°	1080.5
10°	956.0
12.5°	833.6
15°	715.4
17.5°	612.0
20°	523.4
22.5°	449.5
25°	386.2
27.5°	335.5
30°	279.6
32.5°	222.6
35°	162.5
37.5°	110.8
40°	68.6
42.5°	41.2
45°	22.2
47.5°	9.5
50°	4.2
52.5°	3.2
55°	3.2
57.5°	2.1
60°	2.1
62.5°	1.1
65°	1.1
67.5°	1.1
70°	1.1
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)