

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: P210970

Luminaire Tested: **LE_4B10D010 EC4B10208040 4LBW1B**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210970
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_4B10D010 EC4B10208040 4LBW1B
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH SPECULAR BLACK 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: 630.8 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

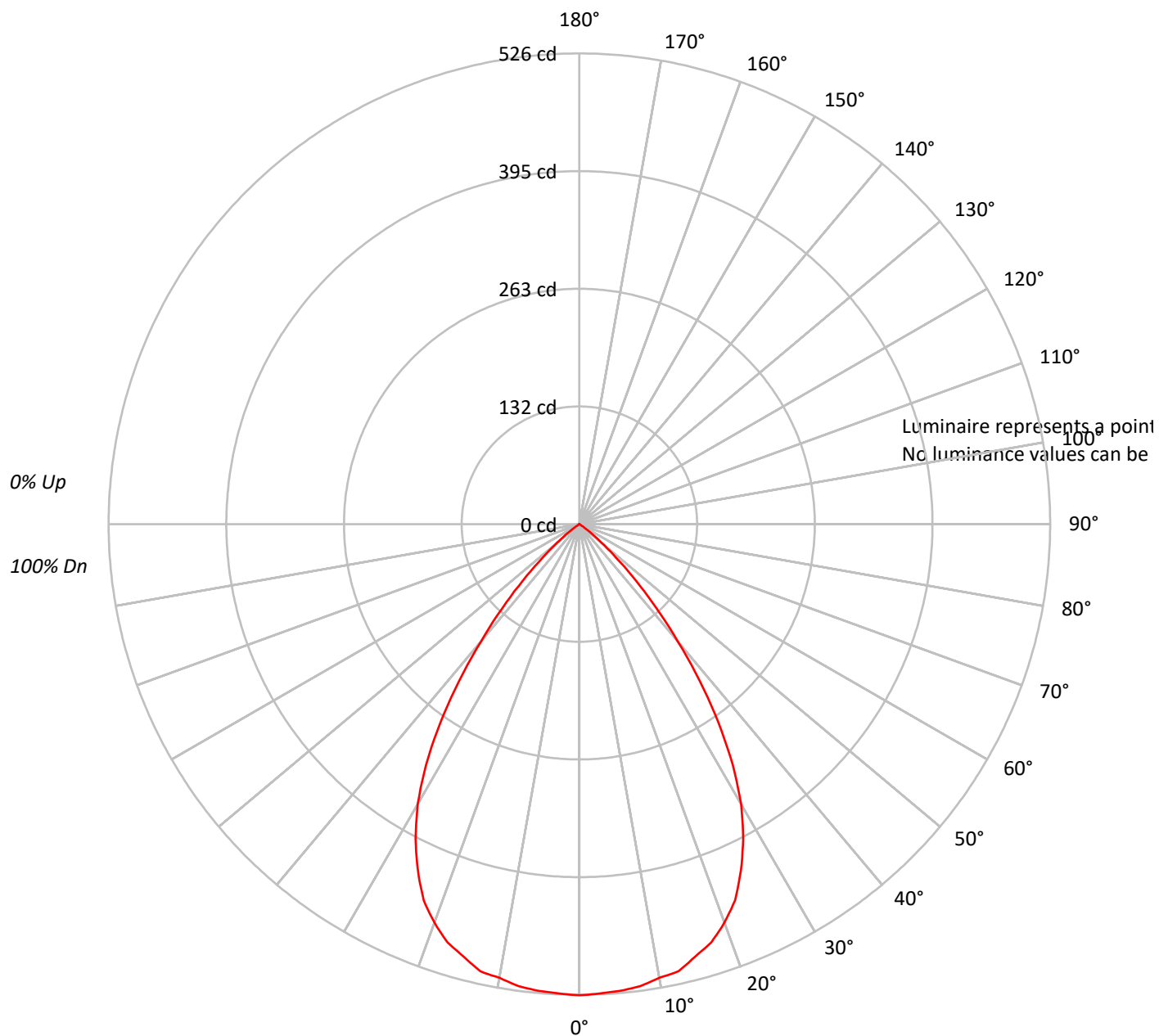
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210970

CATALOG NUMBER: LE_4B10D010 EC4B10208040 4LBW1B

Luminous Intensity Polar Plot





TEST NUMBER: P210970

CATALOG NUMBER: LE_4B10D010 EC4B10208040 4LBW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	79	76		82	78	75		80
5	90	81	75	70	89	80	74	70	79	73	69		77	72	69		75
6	85	76	69	65	84	75	69	64	73	68	64		72	67	64		70
7	80	71	64	60	79	70	64	59	69	63	59		67	62	59		66
8	76	66	60	55	75	65	59	55	64	59	55		63	58	54		62
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58
10	68	58	52	48	67	58	52	48	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210970

CATALOG NUMBER: LE_4B10D010 EC4B10208040 4LBW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	7.9
10°-20°	140.9	22.3
20°-30°	194.7	30.9
30°-40°	166.7	26.4
40°-50°	70.9	11.2
50°-60°	7.9	1.3
60°-70°	0.0	0.0
70°-80°	0.0	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°	385.3	61.1
0°-40°	552.0	87.5
0°-60°	630.8	100.0
0°-90°	630.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	524	50
15°	500	141
25°	427	195
35°	271	167
45°	89	71
55°	4	8
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P210970

CATALOG NUMBER: LE_4B10D010 EC4B10208040 4LBW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	526.5
2.5°	525.0
5°	523.6
7.5°	520.7
10°	514.8
12.5°	511.9
15°	500.2
17.5°	490.0
20°	473.9
22.5°	454.8
25°	427.1
27.5°	396.4
30°	361.2
32.5°	318.9
35°	270.6
37.5°	220.9
40°	171.1
42.5°	127.3
45°	89.2
47.5°	55.6
50°	32.1
52.5°	16.1
55°	4.4
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
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)