

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: P211031

Luminaire Tested: **LE_4B10D010 EC4B10208050 4LBW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211031
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 EC4B10208050 4LBW1LI
Description: PORTFOLIO 4 INCH CYLINDER
WIDE DISTRIBUTION WITH 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: 1277.6 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

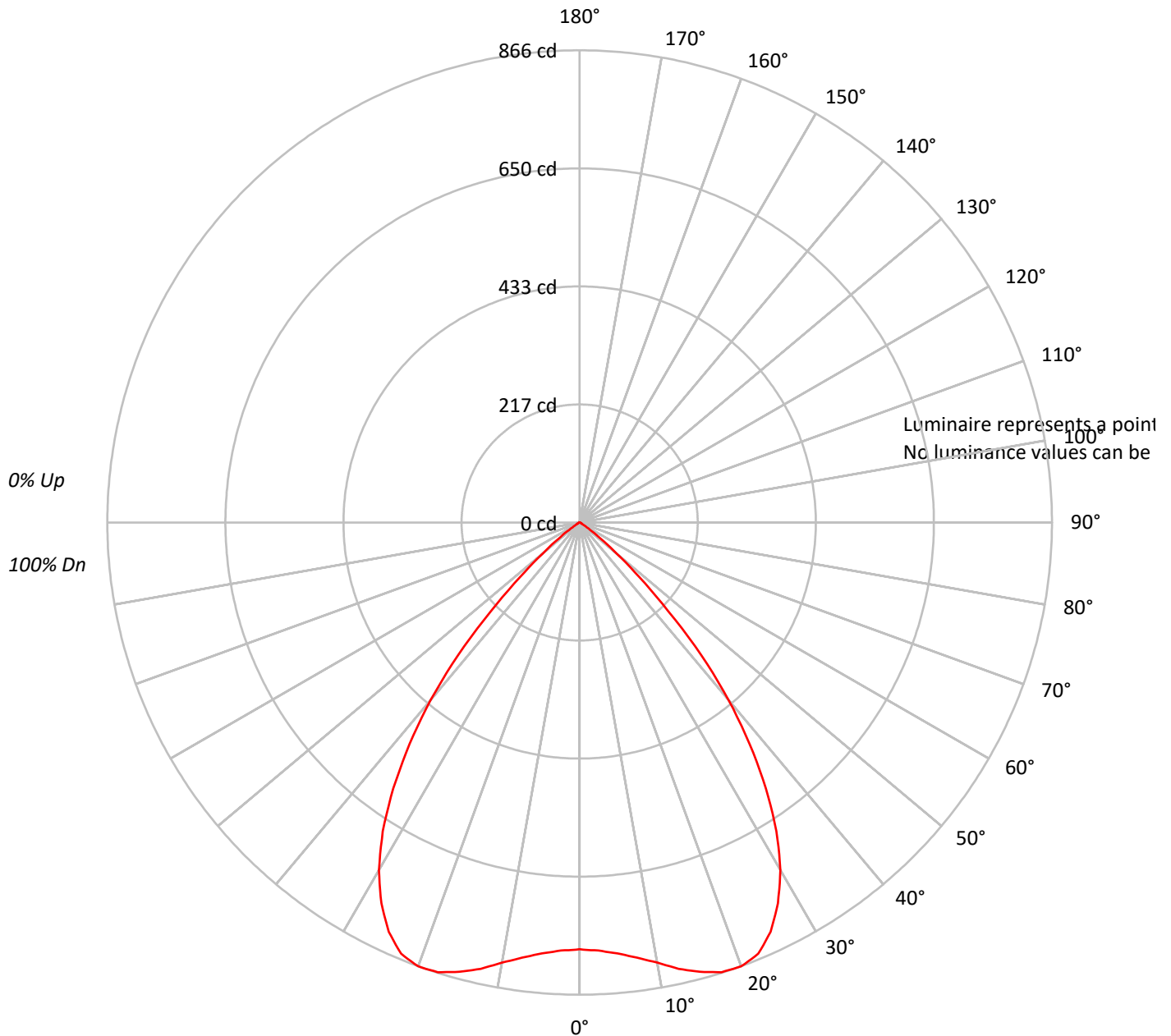
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211031

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBW1LI

Luminous Intensity Polar Plot





TEST NUMBER: P211031

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBW1LI

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	107	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211031

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBW1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	6.0
10°-20°	241.6	18.9
20°-30°	376.9	29.5
30°-40°	366.7	28.7
40°-50°	183.2	14.3
50°-60°	28.3	2.2
60°-70°	3.4	0.3
70°-80°	1.0	0.1
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°	695.0	54.4
0°-40°	1061.7	83.1
0°-60°	1273.2	99.7
0°-90°	1277.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	783	
5°	793	77
15°	853	242
25°	828	377
35°	596	367
45°	230	183
55°	23	28
65°	3	3
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P211031

CATALOG NUMBER: LE_4B10D010 EC4B10208050 4LBW1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	782.8
2.5°	785.8
5°	793.1
7.5°	804.8
10°	819.4
12.5°	838.4
15°	853.1
17.5°	864.8
20°	866.2
22.5°	856.0
25°	828.2
27.5°	787.2
30°	736.0
32.5°	671.6
35°	595.5
37.5°	512.1
40°	424.3
42.5°	330.7
45°	229.7
47.5°	147.8
50°	89.2
52.5°	48.3
55°	23.4
57.5°	10.2
60°	5.8
62.5°	4.4
65°	2.9
67.5°	2.9
70°	1.5
72.5°	1.5
75°	1.5
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)