

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: P210920

Luminaire Tested: **LE_4B10D010 EC4B10209035 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210920
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 EC4B10209035 4LBCS1MW
Description: PORTFOLIO 4 INCH CYLINDER
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE 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: 1126.5 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

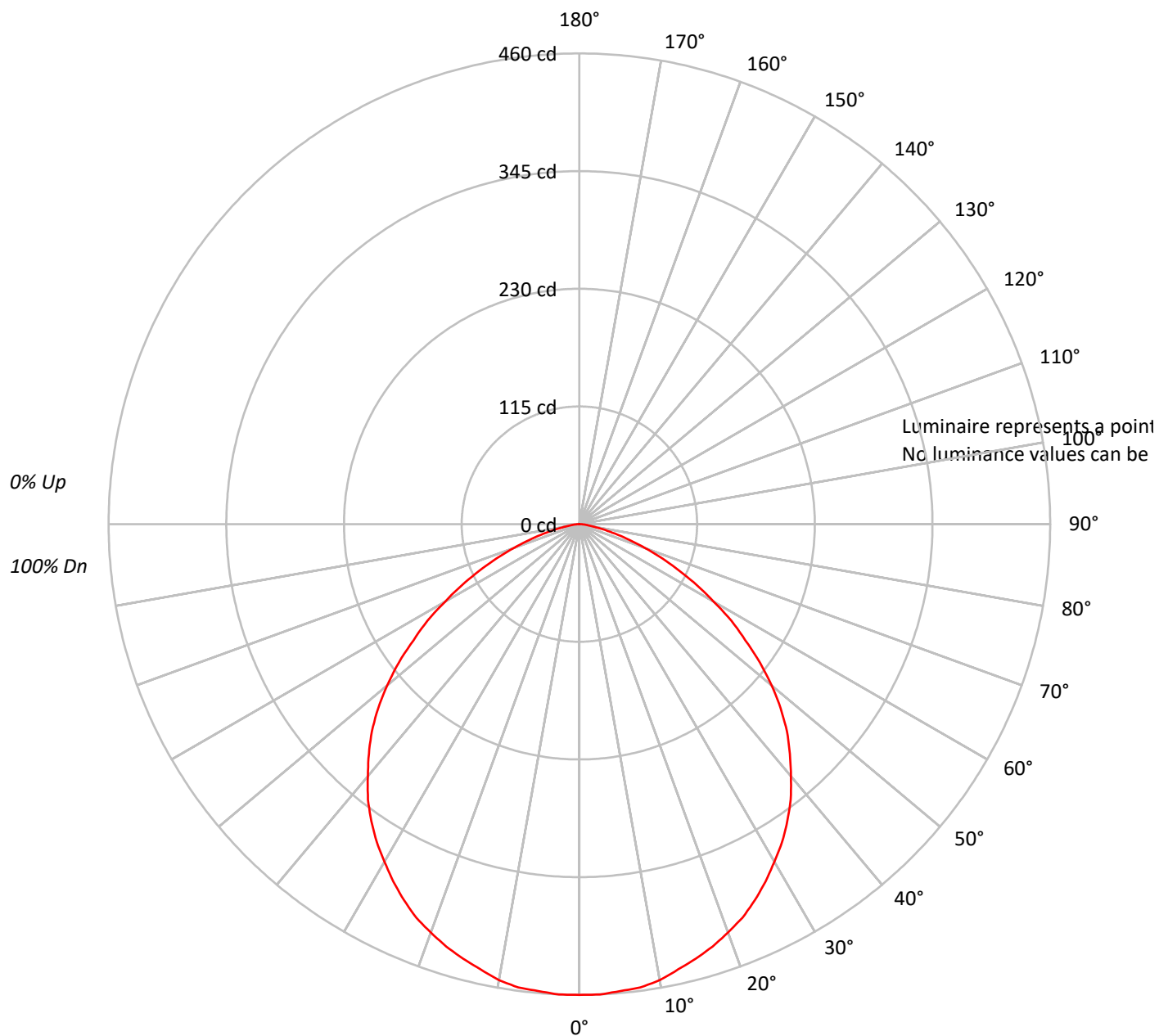
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210920

CATALOG NUMBER: LE_4B10D010 EC4B10209035 4LBCS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P210920

CATALOG NUMBER: LE_4B10D010 EC4B10209035 4LBCS1MW

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	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92
2	101	94	87	82	99	92	86	81	88	84	79		85	81	78		82
3	93	83	75	70	90	81	74	69	79	73	68		76	71	67		73
4	85	74	66	60	83	73	65	59	70	64	58		68	62	58		66
5	79	66	58	52	77	65	57	51	63	56	51		61	55	50		60
6	73	60	52	45	71	59	51	45	57	50	45		56	49	44		54
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		50
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46
9	59	46	38	33	57	45	38	32	44	37	32		43	37	32		42
10	55	42	35	30	54	42	34	30	41	34	29		40	34	29		39

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210920

CATALOG NUMBER: LE_4B10D010 EC4B10209035 4LBCS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	3.9
10°-20°	124.1	11.0
20°-30°	186.7	16.6
30°-40°	221.3	19.6
40°-50°	220.2	19.5
50°-60°	177.5	15.8
60°-70°	107.4	9.5
70°-80°	39.9	3.5
80°-90°	6.0	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°	354.4	31.5
0°-40°	575.7	51.1
0°-60°	973.4	86.4
0°-90°	1126.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	460	
5°	458	44
15°	440	124
25°	406	187
35°	354	221
45°	287	220
55°	198	177
65°	108	107
75°	36	40
85°	5	6
90°	0	



TEST NUMBER: P210920

CATALOG NUMBER: LE_4B10D010 EC4B10209035 4LBCS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	460.1
2.5°	460.1
5°	458.1
7.5°	456.7
10°	452.6
12.5°	445.8
15°	439.6
17.5°	432.8
20°	424.6
22.5°	416.4
25°	405.5
27.5°	393.9
30°	380.9
32.5°	368.6
35°	354.3
37.5°	339.3
40°	321.6
42.5°	304.5
45°	286.8
47.5°	266.9
50°	245.1
52.5°	222.5
55°	198.0
57.5°	176.1
60°	151.5
62.5°	129.7
65°	107.9
67.5°	87.3
70°	68.2
72.5°	51.2
75°	36.2
77.5°	23.2
80°	13.7
82.5°	8.2
85°	4.8
87.5°	2.1
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)