

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: P211048

Luminaire Tested: **LE_4B10D010 EC4B10209050 4LBN1WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P211048
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 EC4B10209050 4LBN1WH
Description: PORTFOLIO 4 INCH CYLINDER
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: 712.7 lumens
Efficiency: N/A
Efficacy: 72.0 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

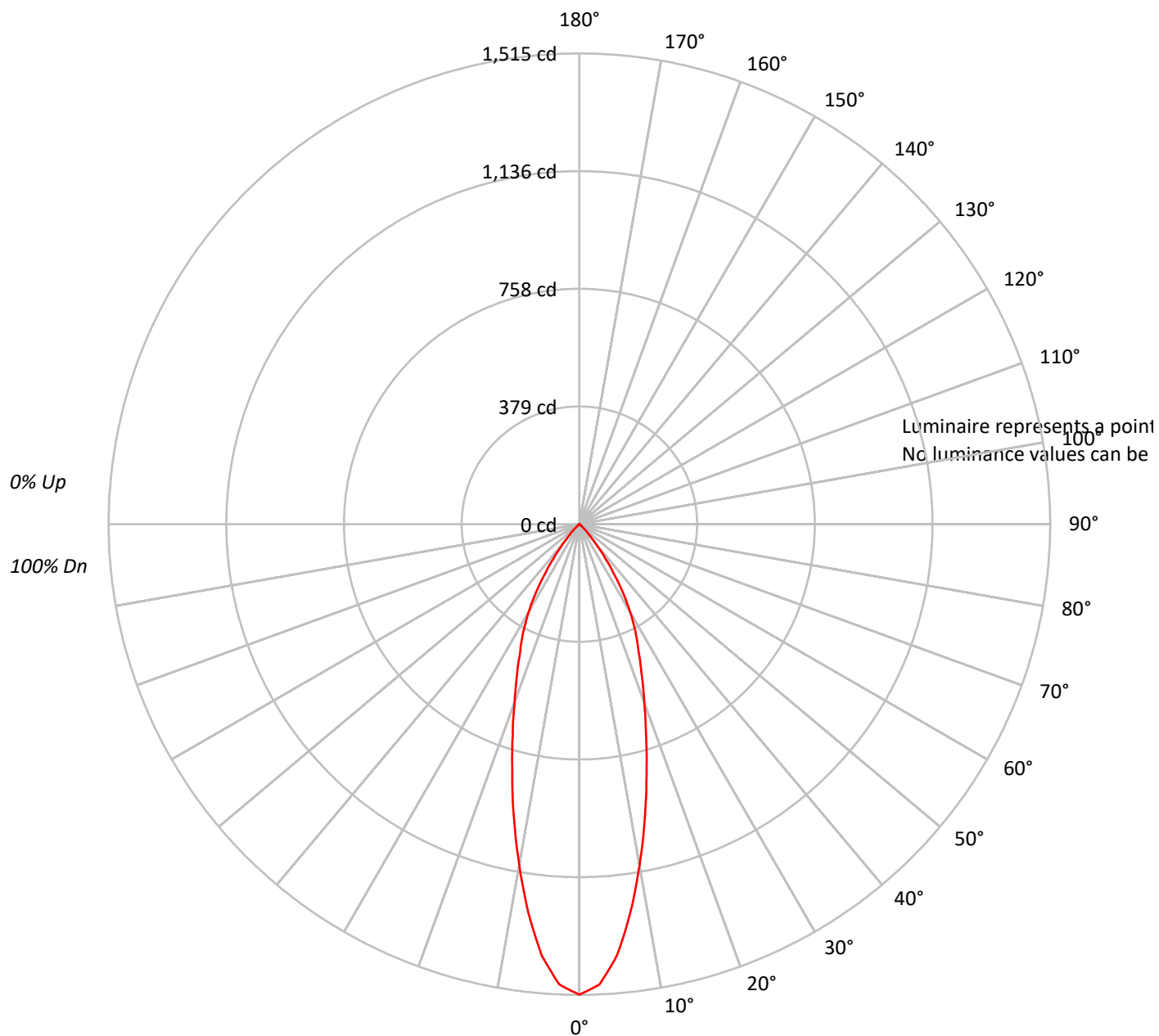
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P211048

CATALOG NUMBER: LE_4B10D010 EC4B10209050 4LBN1WH

Luminous Intensity Polar Plot





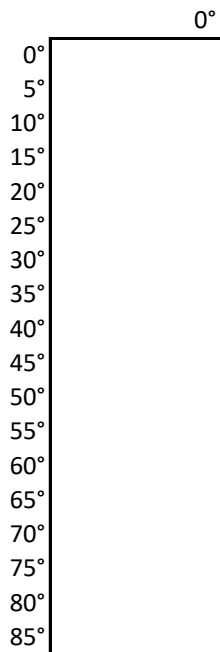
TEST NUMBER: P211048

CATALOG NUMBER: LE_4B10D010 EC4B10209050 4LBN1WH

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

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P211048

CATALOG NUMBER: LE_4B10D010 EC4B10209050 4LBN1WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	17.4
10°-20°	232.3	32.6
20°-30°	208.5	29.2
30°-40°	119.6	16.8
40°-50°	23.9	3.3
50°-60°	3.0	0.4
60°-70°	1.4	0.2
70°-80°	0.2	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°	564.7	79.2
0°-40°	684.3	96.0
0°-60°	711.1	99.8
0°-90°	712.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1515	
5°	1393	124
15°	834	232
25°	450	208
35°	189	120
45°	26	24
55°	4	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P211048

CATALOG NUMBER: LE_4B10D010 EC4B10209050 4LBN1WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	1514.6
2.5°	1483.8
5°	1392.8
7.5°	1259.9
10°	1114.8
12.5°	972.0
15°	834.2
17.5°	713.6
20°	610.3
22.5°	524.1
25°	450.3
27.5°	391.3
30°	326.1
32.5°	259.6
35°	189.4
37.5°	129.2
40°	79.9
42.5°	48.0
45°	25.9
47.5°	11.0
50°	4.9
52.5°	3.7
55°	3.7
57.5°	2.4
60°	2.4
62.5°	1.3
65°	1.3
67.5°	1.3
70°	1.3
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)