

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: P210786

Luminaire Tested: **LE_4B10D010 EC4B10209727 4LBN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210786
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 EC4B10209727 4LBN1MW
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH 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: 634.5 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

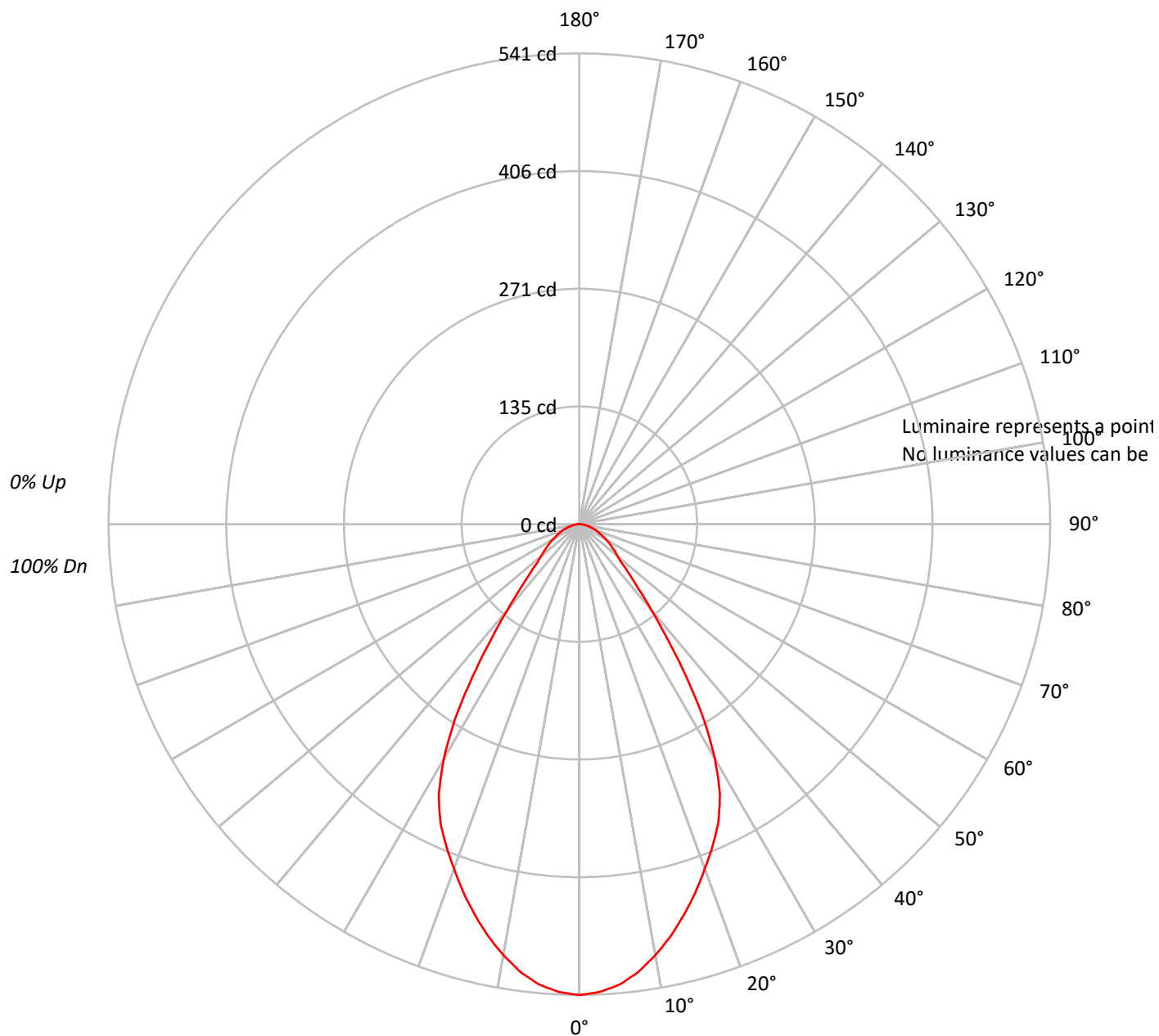
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210786

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBN1MW

Luminous Intensity Polar Plot





TEST NUMBER: P210786

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBN1MW

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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	80	96	89	83	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	76	71	80	74	70		78	73	69		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	82	71	64	59	80	70	64	59	69	63	58		67	62	58		66
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62
8	73	62	55	50	71	61	55	50	60	54	50		59	53	49		58
9	69	58	51	46	68	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210786

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBN1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	7.8
10°-20°	130.3	20.5
20°-30°	171.5	27.0
30°-40°	133.5	21.0
40°-50°	64.8	10.2
50°-60°	41.0	6.5
60°-70°	26.4	4.2
70°-80°	13.8	2.2
80°-90°	3.4	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°	351.6	55.4
0°-40°	485.1	76.4
0°-60°	590.9	93.1
0°-90°	634.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	541	
5°	531	50
15°	465	130
25°	378	171
35°	214	133
45°	81	65
55°	45	41
65°	26	26
75°	13	14
85°	3	3
90°	0	



TEST NUMBER: P210786

CATALOG NUMBER: LE_4B10D010 EC4B10209727 4LBN1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	541.3
2.5°	538.2
5°	531.3
7.5°	519.1
10°	503.0
12.5°	484.9
15°	464.7
17.5°	443.6
20°	421.3
22.5°	400.2
25°	378.0
27.5°	349.7
30°	311.5
32.5°	266.1
35°	213.7
37.5°	165.3
40°	128.1
42.5°	99.8
45°	80.6
47.5°	65.5
50°	57.4
52.5°	51.4
55°	45.4
57.5°	40.4
60°	35.3
62.5°	30.3
65°	26.2
67.5°	23.2
70°	19.1
72.5°	16.1
75°	13.1
77.5°	10.1
80°	7.1
82.5°	5.0
85°	3.0
87.5°	1.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)