

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: P210813

Luminaire Tested: **LE_4B10D010 EC4B10208030 4LBN1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210813
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 EC4B10208030 4LBN1H
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH SEMI-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: 778.4 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

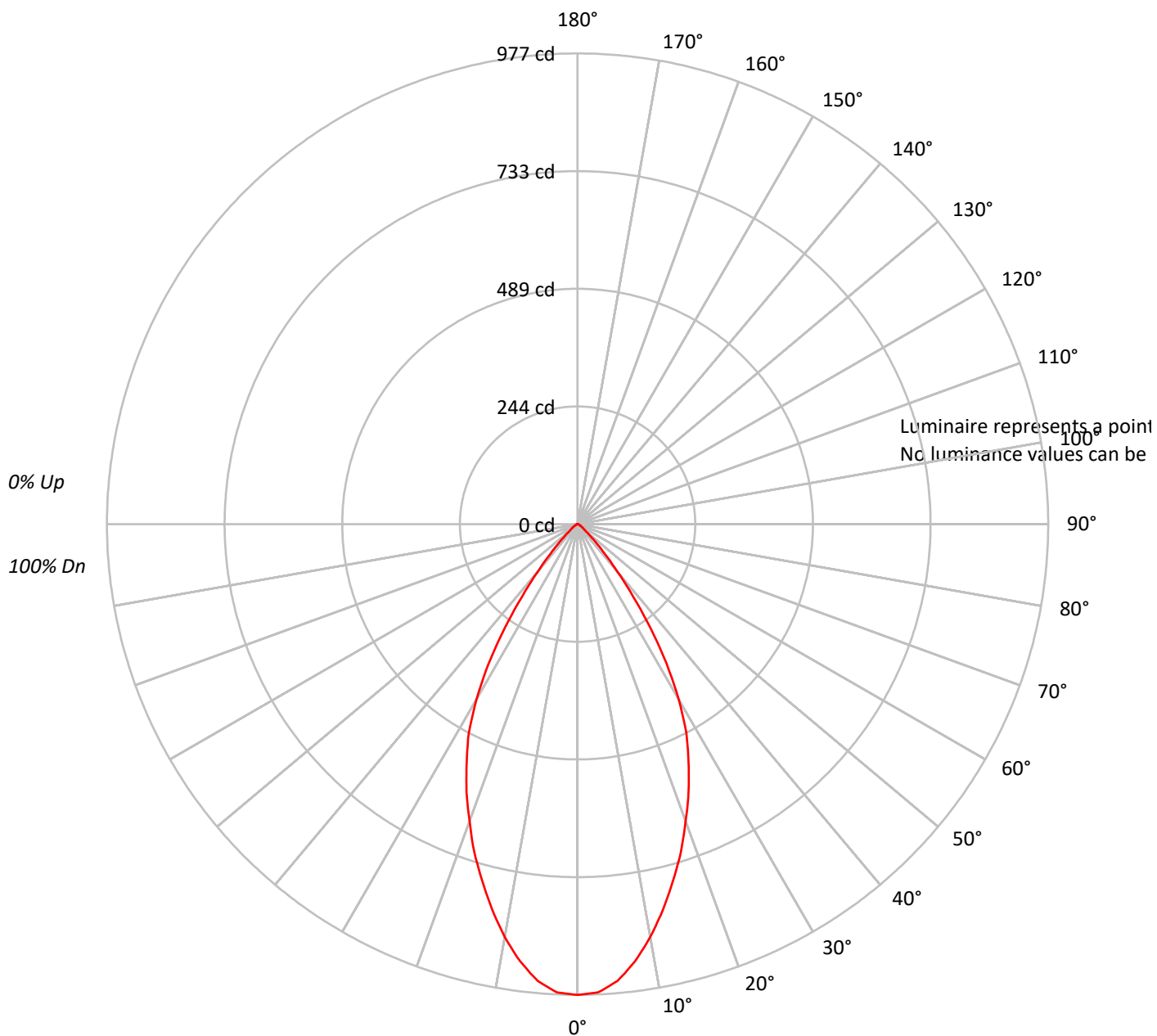
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210813

CATALOG NUMBER: LE_4B10D010 EC4B10208030 4LBN1H

Luminous Intensity Polar Plot





TEST NUMBER: P210813

CATALOG NUMBER: LE_4B10D010 EC4B10208030 4LBN1H

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	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	94	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	89	83	79	86	82	78		84	81	78		83
5	92	84	78	74	91	83	78	73	81	76	73		80	75	72		78
6	88	79	73	69	86	78	72	68	77	72	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	74	65	60	56	65	59	56		64	59	56		63
10	72	62	57	53	71	62	56	53	61	56	53		60	56	52		60

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210813

CATALOG NUMBER: LE_4B10D010 EC4B10208030 4LBN1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	11.3
10°-20°	213.9	27.5
20°-30°	248.3	31.9
30°-40°	164.5	21.1
40°-50°	46.1	5.9
50°-60°	11.6	1.5
60°-70°	4.3	0.6
70°-80°	1.5	0.2
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°	550.4	70.7
0°-40°	714.9	91.8
0°-60°	772.6	99.3
0°-90°	778.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	977	
5°	952	88
15°	766	214
25°	544	248
35°	264	164
45°	54	46
55°	13	12
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P210813

CATALOG NUMBER: LE_4B10D010 EC4B10208030 4LBN1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	977.3
2.5°	973.1
5°	951.9
7.5°	915.2
10°	870.1
12.5°	819.4
15°	765.8
17.5°	713.6
20°	655.7
22.5°	602.2
25°	544.4
27.5°	489.4
30°	418.9
32.5°	344.1
35°	263.7
37.5°	189.0
40°	128.3
42.5°	83.2
45°	53.6
47.5°	32.5
50°	21.1
52.5°	15.5
55°	12.6
57.5°	9.9
60°	7.1
62.5°	5.7
65°	4.2
67.5°	2.8
70°	2.8
72.5°	1.4
75°	1.4
77.5°	1.4
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)