

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: P210717

Luminaire Tested: **LE_4B10D010 EC4B10208027 4LBCS1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210717
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 EC4B10208027 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: 1243.2 lumens
Efficiency: N/A
Efficacy: 125.6 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

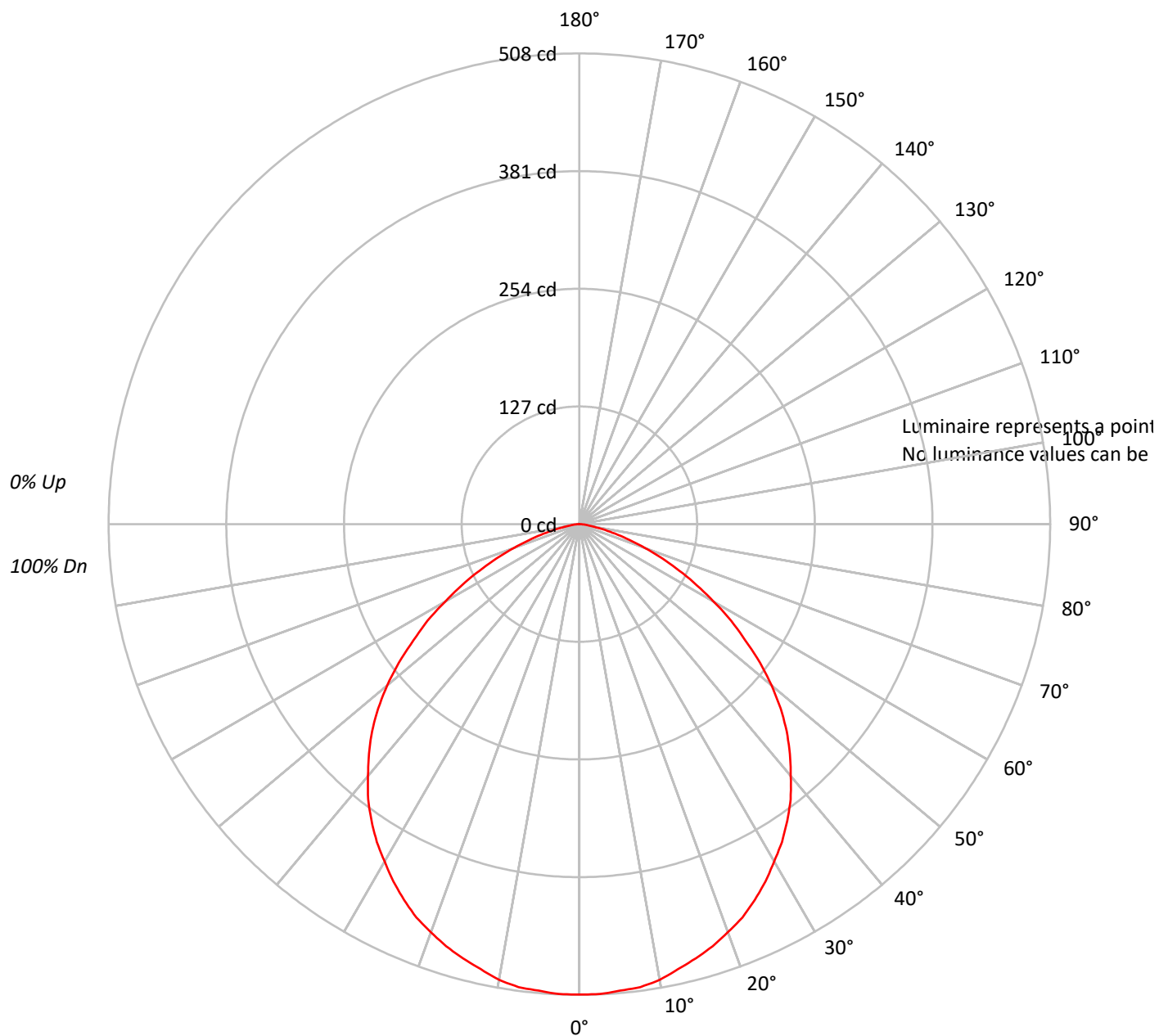
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210717

CATALOG NUMBER: LE_4B10D010 EC4B10208027 4LBCS1MW

Luminous Intensity Polar Plot





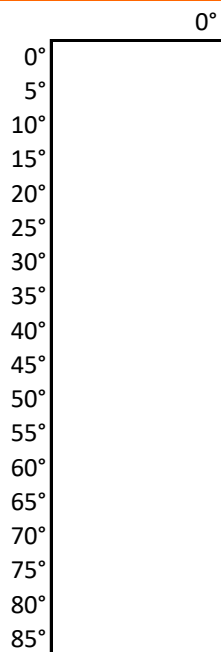
TEST NUMBER: P210717

CATALOG NUMBER: LE_4B10D010 EC4B10208027 4LBCS1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99	108	104	100	97		100	97	94		96	93	91		92	90	89
2	101	94	87	82	99	92	86	81		88	84	79		85	81	78		82	79	76
3	93	83	75	70	90	81	74	69		79	73	68		76	71	67		73	69	65
4	85	74	66	60	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	66	58	52	77	65	57	51		63	56	51		61	55	50		60	54	50
6	73	60	52	45	71	59	51	45		57	50	45		56	49	44		54	49	44
7	68	55	46	40	66	54	46	40		52	45	40		51	44	40		50	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	57	45	38	32		44	37	32		43	37	32		42	36	32
10	55	42	35	30	54	42	34	30		41	34	29		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P210717

CATALOG NUMBER: LE_4B10D010 EC4B10208027 4LBCS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	3.9
10°-20°	137.0	11.0
20°-30°	206.0	16.6
30°-40°	244.2	19.6
40°-50°	243.0	19.5
50°-60°	195.9	15.8
60°-70°	118.5	9.5
70°-80°	44.0	3.5
80°-90°	6.5	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°	391.1	31.5
0°-40°	635.3	51.1
0°-60°	1074.2	86.4
0°-90°	1243.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	508	
5°	506	48
15°	485	137
25°	448	206
35°	391	244
45°	316	243
55°	218	196
65°	119	118
75°	40	44
85°	5	7
90°	0	



TEST NUMBER: P210717

CATALOG NUMBER: LE_4B10D010 EC4B10208027 4LBCS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	507.7
2.5°	507.7
5°	505.5
7.5°	504.0
10°	499.5
12.5°	492.0
15°	485.2
17.5°	477.7
20°	468.6
22.5°	459.6
25°	447.5
27.5°	434.7
30°	420.4
32.5°	406.8
35°	391.0
37.5°	374.4
40°	354.8
42.5°	336.1
45°	316.4
47.5°	294.5
50°	270.5
52.5°	245.6
55°	218.4
57.5°	194.4
60°	167.3
62.5°	143.1
65°	119.0
67.5°	96.4
70°	75.3
72.5°	56.5
75°	39.9
77.5°	25.6
80°	15.1
82.5°	9.0
85°	5.2
87.5°	2.2
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)