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Steelcase Inc.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
WCECLIPSE

REPORT NUMBER:
230901146SHA-003

ISSUE DATE:
Dec 14, 2023

DOCUMENT CONTROL NUMBER:
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TEST REPORT

Report no.: 230901146SHA-003

Applicant:	Steelcase Inc.
	901 44th ST SE, Grand Rapids, MI 49508, USA
Manufacturer:	Steelcase Inc.
	901 44th ST SE, Grand Rapids, MI 49508, USA
FCC ID:	ROM-WCECLIPSE

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
FCC PART 1 SECTION 1.1310

PREPARED BY:	**REVIEWED BY:**
Project Engineer Teddy Yin	Reviewer Wakeyou Wang

TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
230901146SHA-003	Rev. 01	Initial issue of report	Dec 14, 2023

Measurement result summary

TEST ITEM	FCC REFERANCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Portable Luminaire with LED
Type/Model/HVIN/FVIN:	WCECLIPSE
Description of EUT:	EUT is a LED luminaire with wireless charge function. The worst data is listed in the report.
Rating:	DC 24V, 1.5A Rated lighting power: 4.5W Wireless charge output: 5V/1A, 5V/1.5A, 5V/2A, 9V/1.67A Adaptor: MKE-2401500DEXD Input: 100-240V~, 50/60Hz, 0.8A Output: DC 24V, 1.5A
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample number	0230919-11-004
Sample received date:	Oct 7, 2023
Date of test:	Oct 7~20, 2023

1.2 Technical Specification

Frequency Range:	111kHz – 200kHz

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	Wireless load	/	100% power level
2	Wireless load	/	50% power level
3	Wireless load	/	0% power level

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	23°C	56% RH	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Exposure Level Tester	Narda	NBM-550	EC 6113	2024-04-07
☑	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113-1	2024-04-07
☑	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113-2	2024-04-07
☑	Exposure Level Tester(1Hz-400kHz)	Narda	EHP-50F	EC 6527	2024-09-17

2.6 Measurement uncertainty

Test Items	Expanded Uncertainty (k=2)
H-field	0.9 dB
E-field	1.1 dB

3 RF Exposure Assessment

Test result: **Pass**

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

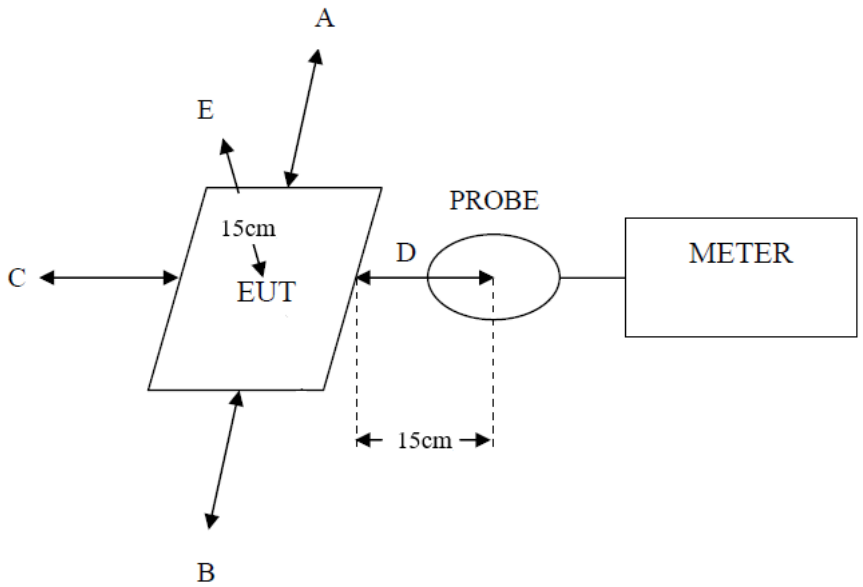
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm^2]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
0.3 – 1.34	614	1.63	*100	30
1.34 – 30	824/f	2.19/f	*180/f^2	30
30 – 300	27.5	0.073	0.2	30
300 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm^2]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
0.3 – 3.0	614	1.63	*100	6
3.0 – 30	1842/f	4.89/f	*900/f^2	6
30 – 300	61.4	0.163	1.0	6
300 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.0676	1.63 *0.5	Pass
B: Left	15	0.0667	1.63 *0.5	Pass
C: Front	15	0.0340	1.63 *0.5	Pass
D: Back	15	0.0329	1.63 *0.5	Pass
E: Top	15	0.1551	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	0.3391	614 *0.5	Pass
B: Left	15	0.4776	614 *0.5	Pass
C: Front	15	0.3309	614 *0.5	Pass
D: Back	15	0.3118	614 *0.5	Pass
E: Top	15	1.2618	614 *0.5	Pass

********** END **********