



CERTIFICADO SUPLEMENTAR DE TIPO

(SupplementalTypeCertificate)

NÚMERO

2016S12-04

(Number)

Este certificado, emitido com base na Lei nº 7565 “Código Brasileiro de Aeronáutica”, de 19 de dezembro de 1986,
(This certificate, issued in the basis of the Law No. 7565 “Código Brasileiro de Aeronáutica”, dated 19 December 1986,

é conferido ao (à): AeroLEDs LLC
is granted to:) 8475 West Elisa Street
Boise, ID 83709
USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)
especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.
(specified hereon, met the applicable airworthiness requirements.)

Produto Original - Número do Certificado de Tipo: * See attached ANAC Approved Model List (AML), Rev. I.R.,
(Original Product - Type Certificate No.): dated 06 Dec. 2016, or later approved revision.

Fabricante: *
(Manufacturer:)

Modelo(s): *
(Model(s):)

DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO:
(Description of Type Design Change:)

Replacement of the existing landing and/or taxi light reflector and bulbs with Light Emitting Diode lighting systems in accordance with AeroLEDs Master Drawing List, Document No. 0003-0001, Rev. I, dated 22 Apr. 2015, or later approved revisions.

This CST validates in Brazil the STC No. SA02386AK, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

See continuation sheet for applicable data.

DATAS:
(Dates of:)

Do Requerimento: 22 Aug. 2016 **Da emissão:** 06 Dec. 2016
(Application:) (Issuance:)

Da reemissão:
(Reissuance:)

Da emenda:
(Amendment:)

MÁRIO IGAWA

Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

ROBERTO JOSÉ SILVEIRA HONORATO
Superintendente de Aeronavegabilidade
(Airworthiness Superintendent)

NOTA:

(Note:)

- a) Este Certificado e os dados técnicos com base no quais ele foi emitido são válidos até que sejam cancelados, suspensos, revogados ou um prazo limite seja estabelecido pela Agência Nacional de Aviação Civil.
(This Certificate and the supporting technical data used for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Agência Nacional de Aviação Civil.)

- b) No caso de transferência de propriedade deste Certificado, o transferente deve preencher o quadro "Endosso de Transferência", e o adquirente deve enviar este Certificado à Gerência Geral de Certificação de Produto Aeronáutico para que seja reemitido em seu nome.
(In case of transfer of the property of this Certificate, the grantor should fill the blanks of "Transfer Endorsement", and the transferee must remit this Certificate to the Gerência Geral de Certificação de Produto Aeronáutico to permit reissuance of the Certificate in his name.)

ENDOSSO DE TRANSFERÊNCIA

(Transfer Endorsement)

Transfiro a propriedade deste Certificado Suplementar de Tipo para:

(I transfer the property of this Supplemental Type Certificate to:)

ADQUIRENTE

(Transferee)

Nome:
(Name:)

Rua:
(Street:)

CEP: **Cidade:** **Estado:** **País:**
(Zip:) (City:) (State:) (Country:)

TRANSFERENTE

(Grantor)

Nome:
(Name:)

Rua:
(Street:)

CEP: **Cidade:** **Estado:** **País:**
(Zip:) (City:) (State:) (Country:)

Data de Transferência:
(Date of Transfer:)

Assinatura do Transferente:
(Signature of the Grantor:)

Nome:
(Name:)

Cargo:
(Function:)



Folha de Continuação ao
(ContinuationSheetto)

CERTIFICADO SUPLEMENTAR DE TIPO
(SupplementalTypeCertificate)

NÚMERO **2016S12-04**
(Number)

LIMITAÇÕES E CONDIÇÕES:

(Limitations and Conditions:)

- I. The approval of this type design change should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that aircraft.
- II. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- III. The maintenance of the aircraft shall be performed in accordance with the applicable Instructions for Continued Airworthiness (ICA):
 - For Sunspot 36HX-LX installation, AeroLEDs LLC Document No. 0003-0004, Rev. E, dated 29 Jan. 2015, or later accepted revision; and/or
 - For Sunspot 46HX-LX installation, AeroLEDs LLC Document No. 0010-0004, Rev. F, dated 29 Jan. 2015, or later accepted revision.
- IV. A copy of this Certificate and the ANAC Approved Model List (AML) for CST No. 2016S12-04 shall be maintained as part of the permanent records for the modified aircraft.

-----END-----

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**ANAC APPROVED MODEL LIST
FOR CST 2016S12-04**

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL(S)	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS
1	Beech Aircraft Corporation	C90, C90A, C90GT, E90	3A20 (FAA)	CAR 3 14 CFR Part 23
2	Textron Aviation	120, 140	A-768 (FAA)	CAR 4a
3	Textron Aviation	140A	5A2 (FAA)	CAR 3 CAR 4a
4	Textron Aviation	150, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152	3A19 (FAA)	14 CFR Part 23
5	Textron Aviation	170, 170A, 170B	A-799 (FAA)	CAR 3
6	Textron Aviation	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P	3A12 (FAA)	CAR 3 14 CFR Part 23
7	Textron Aviation	172R, 172S	9705 (ANAC)	RBHA 23 14 CFR Part 23
8	Textron Aviation	175, R172K, 172RG	3A17 (FAA)	CAR 3 14 CFR Part 23
9	Textron Aviation	177, 177A, 177B	A13CE (FAA)	14 CFR Part 23
10	Textron Aviation	177RG	A20CE (FAA)	14 CFR Part 23
11	Textron Aviation	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6 (FAA)	CAR 3 14 CFR Part 23
12	Textron Aviation	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, R182, T182, TR182	3A13 (FAA)	CAR 3 14 CFR Part 23
13	Textron Aviation	182S, 182T, T182T	9706 (ANAC)	RBHA 23 14 CFR Part 23
14	Textron Aviation	185, 185A, 185B, 185E, A185E, A185F	3A24 (FAA)	CAR 3 14 CFR Part 23
15	Textron Aviation	188, 188B, A188, A188A, A188B, T188C	A9CE (FAA)	14 CFR Part 23
16	Textron Aviation	190, 195	A-790 (FAA)	CAR 3
17	Textron Aviation	206, P206A, P206B, P206D, P206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TU206F, TU206G	A4CE (FAA)	CAR 3 14 CFR Part 23
18	Cessna Aircraft Company	206H, T206H	1999T06 (ANAC)	RBHA 23 14 CFR Part 23
19	Textron Aviation	207, 207A, T207, T207A	A16CE (FAA)	14 CFR Part 23
20	Textron Aviation	208, 208B	8805 (ANAC)	RBHA 23 14 CFR Part 23



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ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL(S)	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS
21	Textron Aviation	210, 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, 210-5 (205), 210-5A (205A), P210N, T210L, T210M, T210N, T210R	3A21 (FAA)	CAR 3 14 CFR Part 23
22	Piper Aircraft	J3C-50, J3C-65, PA-11	A-691 (FAA)	CAR 3
23	Piper Aircraft	J3F-50, J3F-65	A-692 (FAA)	CAR 3
24	Piper Aircraft	J4	A-703 (FAA)	CAR 3
25	Piper Aircraft	J4E	A-704 (FAA)	CAR 3
26	Piper Aircraft	PA-16	1A1 (FAA)	CAR 3
27	Piper Aircraft	PA-15	A-800 (FAA)	CAR 3
28	Piper Aircraft	PA-17	A-805 (FAA)	CAR 3
29	Piper Aircraft	PA-18, PA-18"105", PA-18"135", PA-18"150", PA-18A, PA-18A"135", PA-18A"150"	1A2 (FAA)	CAR 3
30	Piper Aircraft	PA-20, PA-20"135"	1A4 (FAA)	CAR 3
31	Piper Aircraft	PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160	1A6 (FAA)	CAR 3
32	Piper Aircraft	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15 (FAA)	CAR 3
33	Piper Aircraft	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T	2A13 (FAA)	CAR 3 14 CFR Part 23
34	Piper Aircraft	PA-32-260, PA-32-300, PA-32-301, PA-32R-300, PA-32R-301(HP), PA-32R-301(SP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, PA-32-301FT, PA-32-301XTC	A3SO (FAA)	CAR 3 14 CFR Part 23
35	Piper Aircraft	PA-36-300, PA-36-375	9113 (ANAC)	RBAC 23 14 CFR Part 23
36	Piper Aircraft	PA-38-112	8402 (ANAC)	RBHA 23 14 CFR Part 23
37	Piper Aircraft	PA-23, PA-23-160, PA-23-250	1A10 (FAA)	CAR 3
38	Piper Aircraft	PA-30, PA-39	A1EA (FAA)	CAR 3 14 CFR Part 23
39	Piper Aircraft	PA-31, PA-31-300, PA-31-325, PA-31-350	A20SO (FAA)	CAR 3 14 CFR Part 23
40	Piper Aircraft	PA-31P, PA-31T, PA-31T1, PA-31T2	A8EA (FAA)	CAR 3 14 CFR Part 23



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FOR CST 2016S12-04**

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL(S)	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS
41	Piper Aircraft	PA-34-200, PA-34-200T, PA-34-220T	A7SO (FAA)	14 CFR Part 23
42	Piper Aircraft	PA-44-180	2013T06 (ANAC)	RBAC 23 14 CFR Part 23
43	Viking Air Limited	DHC-2 MK. I, DHC-2 MK. II, DHC-2 MK. III	A-806 (FAA)	CAR 3 CAR 10

ANAC Approved: _____

Mário Igawa

Gerente-Geral, Certificação de Produto Aeronáutico
(General Manager, Aeronautical Product Certification)

ANAC Approved Date:

06 Dec. 2016

Revision: I.R.