



E9*148R00/04*1742*00

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COMUNICACIÓN / COMMUNICATION:

Concerniente a /
Concerning: ⁽¹⁾

La concesión de homologación / *Approval granted*

~~La extensión de homologación / *Approval extended*~~

~~La denegación de homologación / *Approval refused*~~

~~La retirada de homologación / *Approval withdrawn*~~

~~El cese definitivo de producción / *Production definitively discontinued*~~

de un tipo de lámpara en aplicación del Reglamento UN Nº 148 /
of a type of lamp pursuant to UN Regulation No. 148

Lámpara /
Lamp: ⁽¹⁾

Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*

Indicador de dirección / *Direction indicator lamp*

Luz de pare / *Stop lamp*

Luz de posición / *Position lamp*

~~Luz de galibo / *End-outline marker lamp*~~

~~Luz de marcha atrás / *Reversing lamp*~~

~~Luz de maniobra / *Manoeuvring lamp*~~

~~Luz antiniebla trasera / *Rear fog lamp*~~

~~Luz de estacionamiento / *Parking lamp*~~

~~Luz de circulación diurna / *Daytime running lamp*~~

~~Luz de posición lateral / *Side marker lamp*~~

Categoría de la lámpara /
Category of the lamp:

R1 S1 2a L

Cambio de índice /
Change index:

Nº de homologación /
Approval No:

E9*148R00/04*1742*00

Identificador Único (si procede) /
Unique Identifier (UI) (if
applicable):

⁽¹⁾ Táchese lo que no proceda / *Strike out what does not apply*





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1. Marca de fábrica o comercial de la lámpara / *Trade name or mark of the lamp*: Fristom
2. Tipo dado por el fabricante para la luz / *Manufacturer's name for the type of lamp*: FT-371 LED
3. Nombre y dirección del fabricante / *Manufacturer's name and address*:
FRISTOM SPÓLKA Z OGRANICZONA
ODPOWIEDZIALNOSCIA SPÓLKA KOMANDYTOWA
ul. Przemysłowa 5
86-014, Sicienko, BYDGOSZCZ (POLONIA / POLAND)

Nota / *Note*: Este dispositivo puede ser fabricado en cualquiera de las Plantas de Fabricación que consten declaradas en el Anexo I del Certificado Conformidad Producción en vigor emitido por la UCA. / *This device may be manufactured in any of the Manufacturing Plants declared in Annex I of the Conformity Production Certificate in force issued by the UCA.*

4. Si procede, nombre y dirección del representante del fabricante / *If applicable, name and address of the manufacturer's representative*: ---
5. Dispositivo presentado a homologación el / *Submitted for approval on*: 28/11/2022
6. Servicio técnico encargado de los ensayos de homologación / *Technical Service responsible for conducting approval tests*: IDIADA
7. Fecha del informe emitido por dicho servicio / *Date of report issued by that Service*: 18/01/2023
8. Número del informe emitido por dicho servicio / *Number of report issued by that Service*: PC21110307
9. Breve descripción / *Concise description*:

9.1. En caso de / *In case of*

9.1.1. Una luz de la placa de matrícula trasera / *A rear-registration plate illuminating lamp*:

- Condiciones geométricas de instalación (posiciones e inclinaciones del dispositivo en relación al espacio ocupado por la placa de matrícula y/o diferentes inclinaciones de este espacio) / *Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space)*: Ver documentación del fabricante/See manufacturer's documentation.

9.1.2. Un indicador de dirección / *A direction indicator*:

- Activación secuencial de las fuentes luminosas / *Sequential activation of light sources*:
~~sí~~/yes - no / no ⁽¹⁾

9.1.3. Una luz de marcha atrás / *A reversing lamp*:

- La luz sólo puede instalarse en un vehículo como parte de un par de luces / *The lamp shall be installed on a vehicle only as part of a pair of lamps*: ~~sí~~/yes - ~~no~~/no ⁽¹⁾

9.1.4. Una luz de maniobra / *A manoeuvring lamp*:

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- La altura máxima de montaje / *The maximum mounting height*: ---

9.1.5. Una luz de circulación diurna / *A daytime running lamp*:

- La intensidad luminosa máxima no excede 700 cd / *Maximum luminous intensity does not exceed 700 cd*: ~~sí~~ / ~~yes~~ - ~~no~~ / ~~no~~ ⁽¹⁾

9.2. Por función de luz de señalización y categoría / *By light signalling function and category*:

- Para la instalación en el exterior ~~o en el interior o ambos~~ ⁽¹⁾ / *For mounting either outside or inside or both* ⁽¹⁾
- Color de luz emitida / *Colour of light emitted*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: ~~roja~~ / ~~red~~ - blanca / white - ~~ambar~~ / ~~amber~~ - incolora / colourless ⁽¹⁾
 - Indicador de dirección / *Direction indicator lamp*: ~~roja~~ / ~~red~~ - ~~blanca~~ / ~~white~~ - ~~ambar~~ / ~~amber~~ - incolora / colourless ⁽¹⁾
 - Luz de pare / *Stop lamp*: ~~roja~~ / ~~red~~ - ~~blanca~~ / ~~white~~ - ~~ambar~~ / ~~amber~~ - incolora / colourless ⁽¹⁾
 - Luz de posición / *Position lamp*: ~~roja~~ / ~~red~~ - ~~blanca~~ / ~~white~~ - ~~ambar~~ / ~~amber~~ - incolora / colourless ⁽¹⁾
- Número, categoría(s) y tipo de la(s) fuente(s) luminosa(s) / *Number, category and kind of light source(s)*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: 6 x LEDs
 - Indicador de dirección / *Direction indicator lamp*: 10 x LEDs
 - Luz de pare / *Stop lamp*: 12 x LEDs
 - Luz de posición / *Position lamp*: 40 x LEDs
- Luz homologada para fuente(s) luminosa(s) sustitutiva(s) de LED. En caso afirmativo, categoría de la(s) fuente(s) de luz sustitutiva(s) de LED / *Lamp approved for LED substitute light source(s). If yes, category of LED substitute light source(s)*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
 - Indicador de dirección / *Direction indicator lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
 - Luz de pare / *Stop lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
 - Luz de posición / *Position lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
- Voltaje y potencia / *Voltage and wattage*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: 12-24V, 5W
 - Indicador de dirección / *Direction indicator lamp*: 12V, 15W
 - Luz de pare / *Stop lamp*: 12-24V, 7W
 - Luz de posición / *Position lamp*: 12-24V, 5W
- Módulo de fuente de luz / *Light source module*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
 - Indicador de dirección / *Direction indicator lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
 - Luz de pare / *Stop lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
 - Luz de posición / *Position lamp*: ~~sí~~ / ~~yes~~ - no / no ⁽¹⁾
- Código de identificación específico del módulo de fuente de luz / *Light source module specific identification code*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: ---
 - Indicador de dirección / *Direction indicator lamp*: ---

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- Luz de pare / *Stop lamp*: ---
 - Luz de posición / *Position lamp*: ---
 - Solo para instalación limitada en altura igual o inferior a 750 mm por encima del suelo, si procede / *Only for limited mounting height of equal to or less than 750 mm above the ground, if applicable*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: ~~sí~~/yes - no / no ⁽¹⁾
 - Indicador de dirección / *Direction indicator lamp*: ~~sí~~/yes - no / no ⁽¹⁾
 - Luz de pare / *Stop lamp*: ~~sí~~/yes - no / no ⁽¹⁾
 - Luz de posición / *Position lamp*: ~~sí~~/yes - no / no ⁽¹⁾
 - Condiciones geométricas de instalación y variaciones relacionadas, si se da el caso / *Geometrical conditions of installation and relating variations, if any*: ---
 - Aplicación de una guía de control electrónica/control de intensidad variable de la(s) fuente(s) luminosa(s) / *Application of an electronic light source control gear/variable intensity control*:
 - Luz de la placa de matrícula trasera / *Rear-registration plate illuminating lamp*: ---
 - Indicador de dirección / *Direction indicator lamp*: ---
 - Luz de pare / *Stop lamp*: ---
 - Luz de posición / *Position lamp*: ---
 - Tensión(es) de entrada suministrada(s) por la guía de control electrónica/control de intensidad variable la(s) fuente(s) luminosa(s) / *Input voltage(s) supplied by an electronic light source control gear/variable intensity control*: ---
 - Fabricante de la guía de control electrónica/control de intensidad variable de la(s) fuente(s) luminosa(s) y número de identificación (cuando la guía de control de la fuente luminosa forma parte de la luz pero no está incluida en el cuerpo de la luz) / *Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body)*: ---
 - Intensidad luminosa variable, si procede / *Variable luminous intensity, if applicable*: ~~sí~~/yes - no / no ⁽¹⁾
 - Función(es) producida(s) por una luz interdependiente que forma parte de un sistema de luces interdependientes, si procede / *Function(s) produced by an interdependent lamp forming part of an interdependent lamp system, if applicable*: ---
- 9.3. La luz de posición delantera, luz de posición trasera, luz de pare, luz de galibo, luz de circulación diurna⁽⁴⁾ es sólo para uso en un vehículo equipado con un testigo que indique el fallo / *The front position lamp, rear position lamp, stop lamp, end-outline marker lamp, daytime running lamp⁽⁴⁾ is only for use on a vehicle fitted with a tell-tale indicating failure*: ~~sí~~/yes - no / no ⁽¹⁾
10. Posición de la marca de homologación / *Position of the approval mark*: Ver documentación suministrada por el fabricante. / *See documentation supplied by the manufacturer*.
11. Motivo(s) de la extensión (si procede) / *Reason(s) for extension (if applicable)*: ---
12. Se concede/deniega/extiende/retira la homologación ⁽¹⁾ / *Approval granted/extended/refused/withdrawn* ⁽¹⁾
13. Homologación concedida para los dispositivos destinados a ser utilizados en vehículos ya en uso únicamente / *Approval granted for devices to be used on vehicles already in use only*: ~~sí~~/yes - no / no ⁽¹⁾

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14. Lugar / Place: Madrid

15. Fecha / Date: Ver firma electrónica. / See electronic signature.

16. Firma / Signature:

EL SUBDIRECTOR GENERAL DE CALIDAD Y SEGURIDAD INDUSTRIAL
Resolución P.D. del DIRECTOR GENERAL DE INDUSTRIA Y DE LA PYME de 25-10-2012

17. La lista de los documentos depositados ante la Autoridad de homologación de Tipo que ha concedido la homologación se adjunta a la presente comunicación y puede obtenerse previa solicitud. / The list of documents deposited with the Type Approval Authority which has granted approval is annexed to this communication and may be obtained on request.

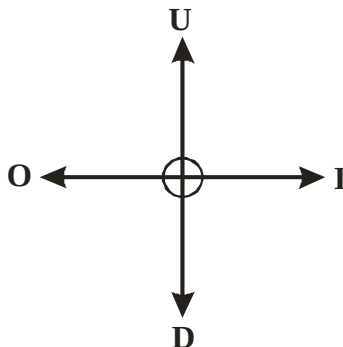
- Informe del ensayo. / Test report.
- Documentación suministrada por el fabricante. / Documentation supplied by the manufacturer.

⁽¹⁾ Táchese lo que no proceda / Strike out what does not apply





SUPERFICIE ILUMINANTE / ILLUMINATING SURFACE



Límite superior / Upper boundary "U" (mm)	Límite inferior / Down boundary "D" (mm)	Límite interior / Inner boundary "I" (mm)	Límite exterior / Outer boundary "O" (mm)
58	60	110	110

THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY, S.A. (TS) LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594
LOS ENSAYOS HAN SIDO REALIZADOS POR IDIADA AUTOMOTIVE TECHNOLOGY, S.A. (TS) Acreditado por ENAC con número de acreditación 35/LE2594

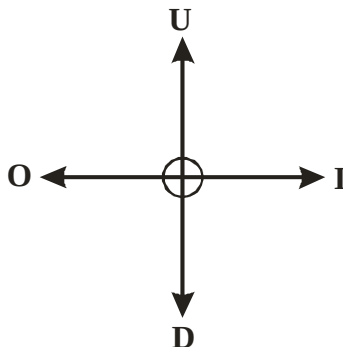
Validate this report with the security code «NXGNHGX5» at: <https://extranet.idiada.com/hom-cve>
Verifique el informe con código de seguridad «NXGNHGX5» en: <https://extranet.idiada.com/hom-cve>

IDIADA PC21110307

- * LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA.
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.
- * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA.
THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.
- * EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS.
MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.
- * LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE
THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE



SUPERFICIE ILUMINANTE / ILLUMINATING SURFACE



Límite superior / Upper boundary "U" (mm)	Límite inferior / Down boundary "D" (mm)	Límite interior / Inner boundary "I" (mm)	Límite exterior / Outer boundary "O" (mm)
22	29	95	95

* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA.
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.

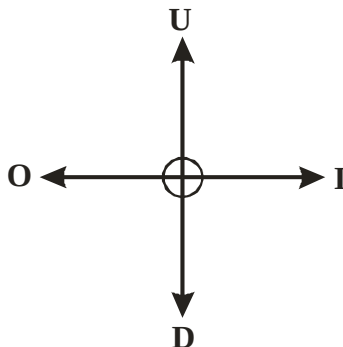
* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA.
THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.

* EL LABORATORIO HA CALCULADO LA INCERTIDUMBRE DE MEDIDA ASOCIADA A LOS RESULTADOS.
MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.

* LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE
THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE



SUPERFICIE ILUMINANTE / ILLUMINATING SURFACE



Límite superior / Upper boundary "U" (mm)	Límite inferior / Down boundary "D" (mm)	Límite interior / Inner boundary "I" (mm)	Límite exterior / Outer boundary "O" (mm)
10.5	14.5	82	82

Lugar del ensayo / Test place: L'Albornar, E-43710 Santa Oliva (Tarragona)

Fecha del ensayo / Test date: 28/11/2022-17/01/2023

Joan Fonts Sala
INGENIERO DE ENSAYOS
TEST ENGINEER

- * LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA.
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.
- * QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA.
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MEASUREMENT UNCERTAINTY OF THE RESULTS HAS BEEN CALCULATED BY THE LABORATORY.
- * LA REGLA DE DECISIÓN UTILIZADA, SEGÚN LA NORMA ILAC-G8, HA SIDO LA DECLARACIÓN BINARIA DE ACEPTACIÓN SIMPLE
THE DECISION RULE USED, ACCORDING TO THE ILAC-G8 STANDARD, WAS THE BINARY STATEMENT FOR SIMPLE ACCEPTANCE

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
86-014 Sicienko / Polska
ul. Przemysłowa 5
NIP: 5542926937, KRS: 0000529238
Tel.: +48 52 360 90 51, Fax: +48 52 327 75 41



Drawn by: Michał Dybicz	Date: 18-01-2023	Sheet: 1 of 11
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Type:
FT-371 LED

LED multifunction rear lamp

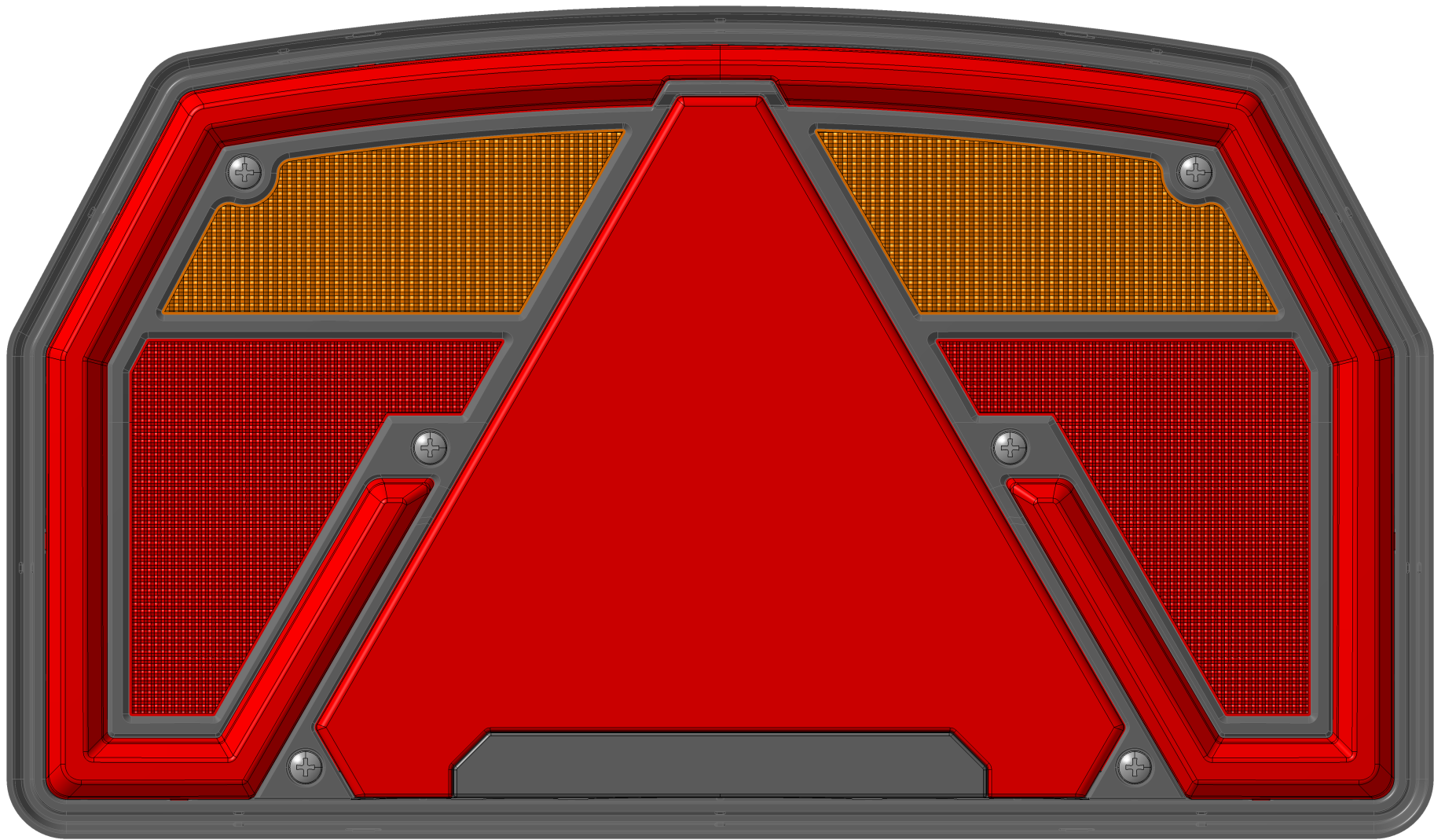
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
isometric lamp view

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



İİİÄÄÄ PC21110307

Manufacturer:
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86-014 Sicienko / Polska
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NIP: 5542926937, KRS: 0000529238
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Drawn by: Michał Dybicz
Date: 18-01-2023
Sheet: 2 of 11

Type:
FT-371 LED

LED multifunction rear lamp

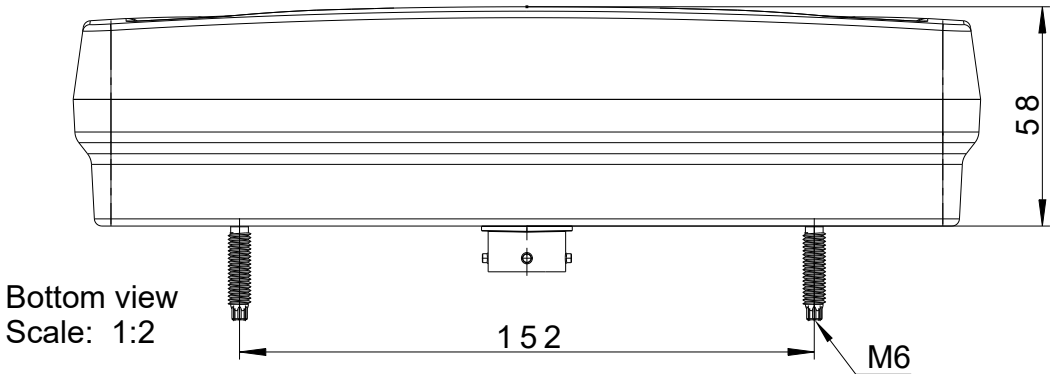
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
general drawing , light emitting ,reflecting
areas and vehicle assembly

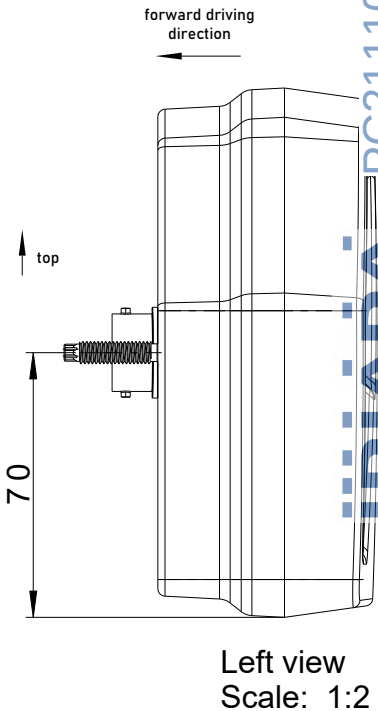
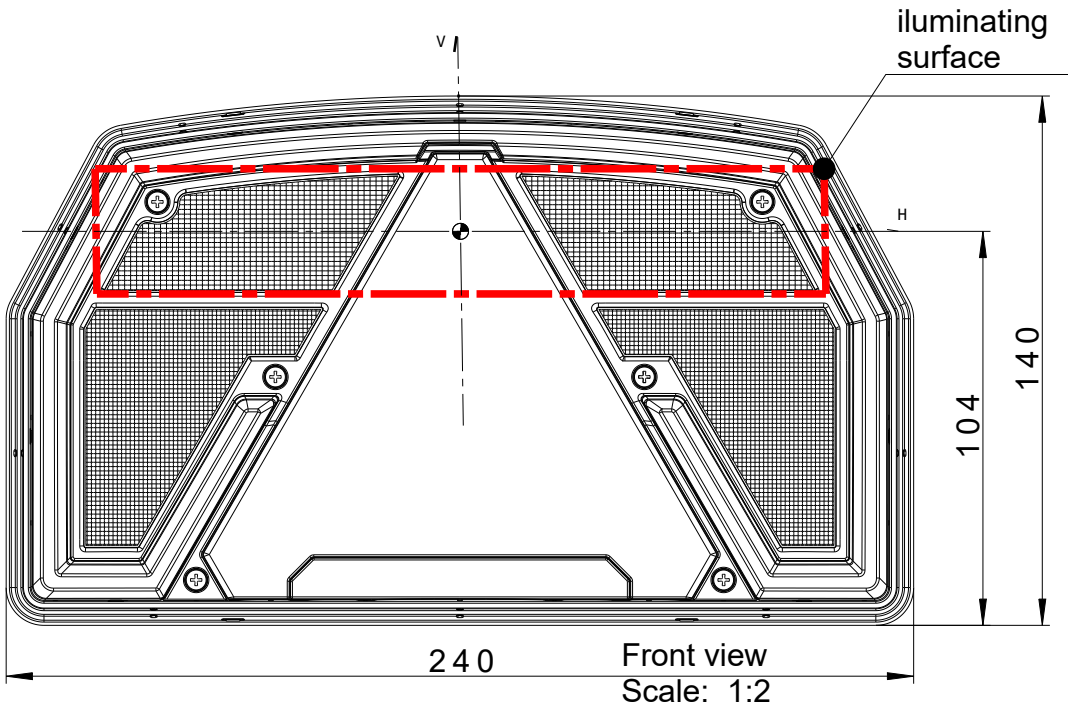
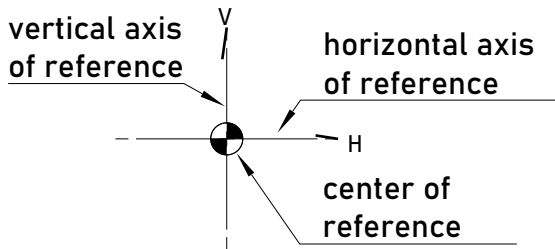
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



Left or right lamp shown on drawing
Function: rear direction indicator
category 2a



PC21110307

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Drawn by: Michał Dybicz
Date: 18-01-2023
Sheet: 3 of 11

Type:
FT-371 LED

LED multifunction rear lamp

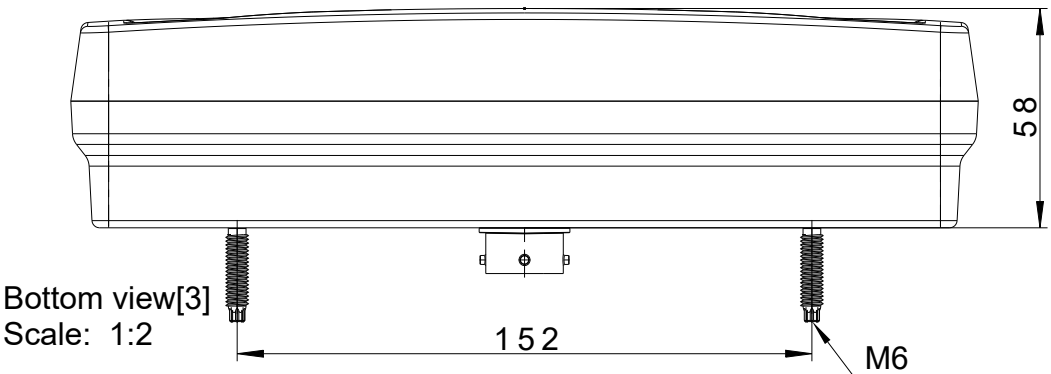
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
general drawing , light emitting ,reflecting
areas and vehicle assembly

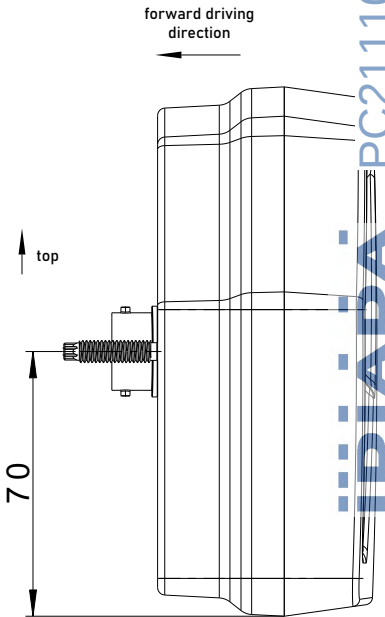
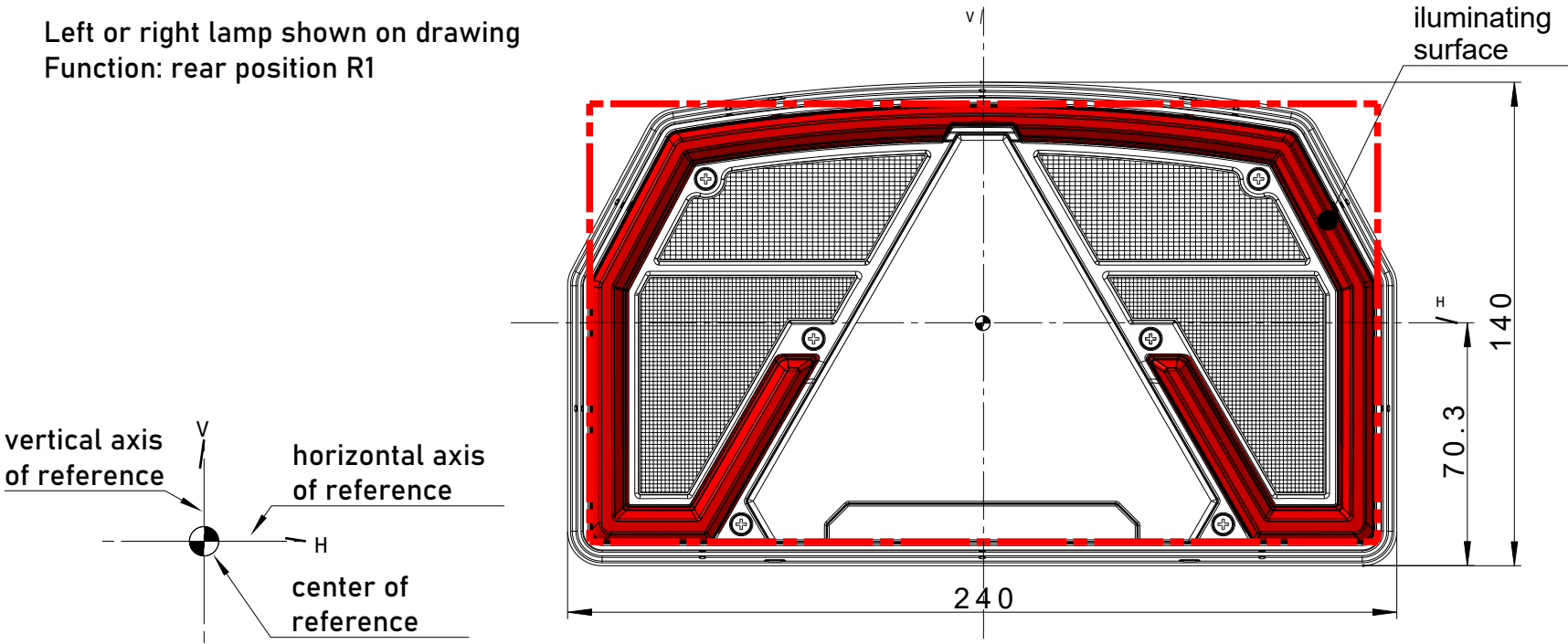
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



Left or right lamp shown on drawing
Function: rear position R1



PC21110307

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Drawn by: Michał Dybicz
Date: 18-01-2023
Sheet: 4 of 11

Type:
FT-371 LED

LED multifunction rear lamp

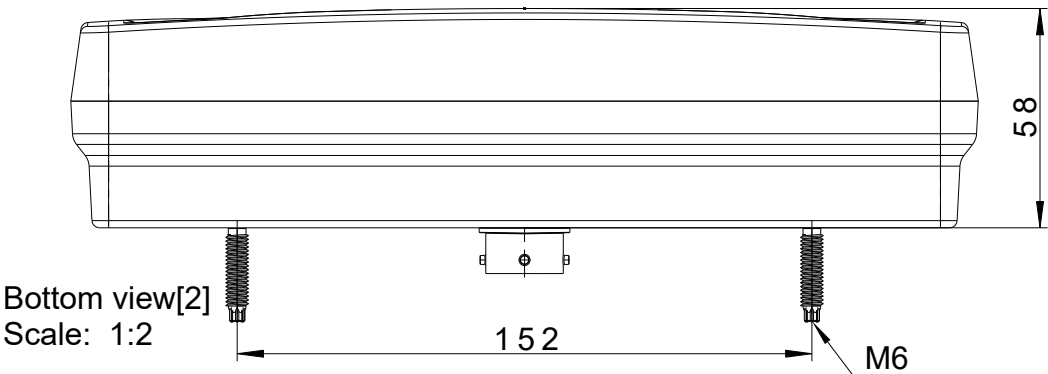
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
general drawing , light emitting ,reflecting
areas and vehicle assembly

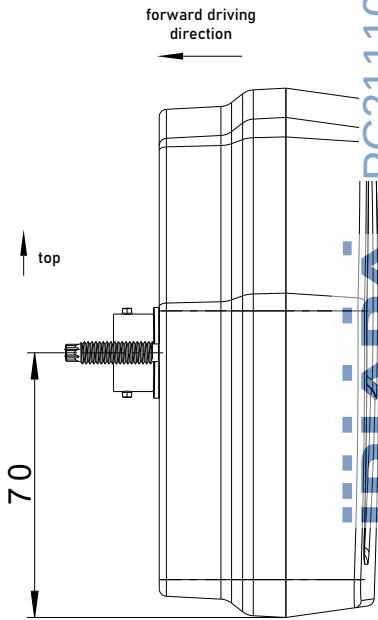
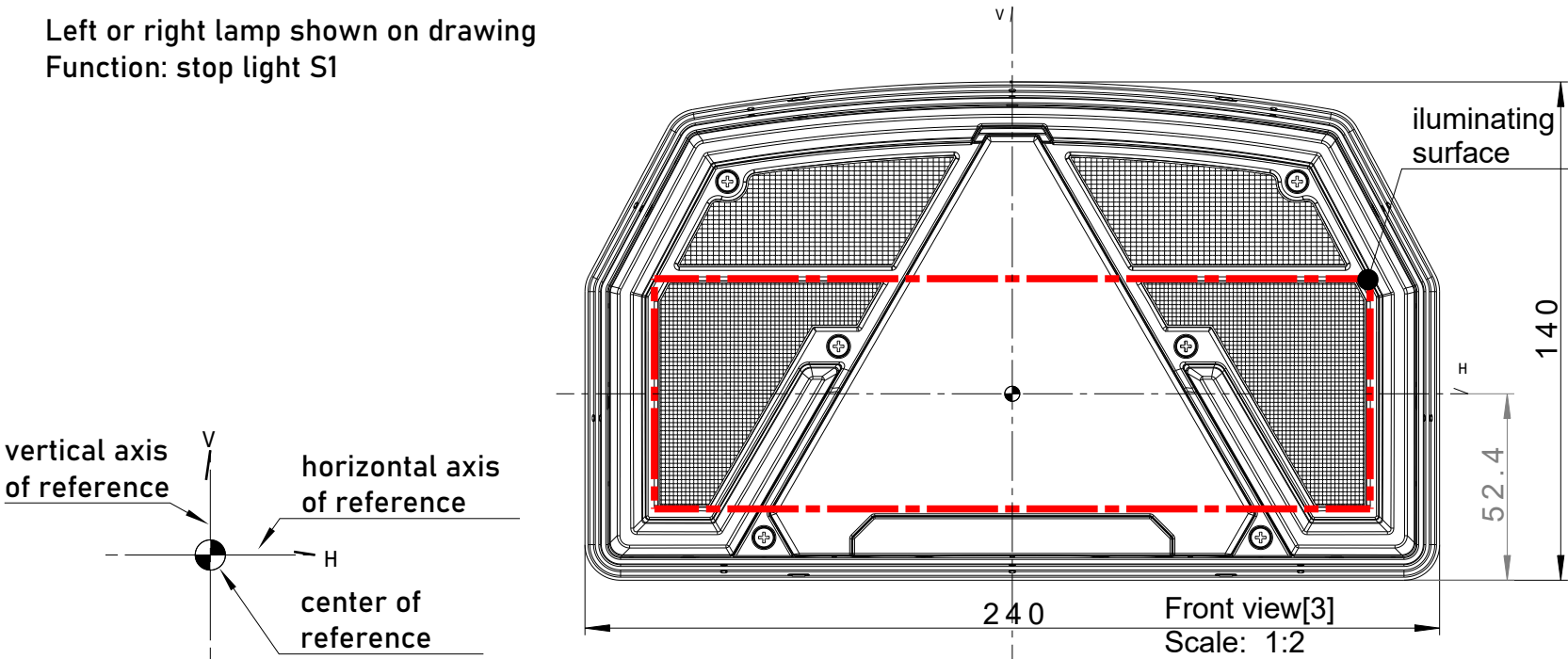
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



Left or right lamp shown on drawing
Function: stop light S1



PC21110307

Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Sheet: 5 of 11

Type:
FT-371 LED

LED multifunction rear lamp

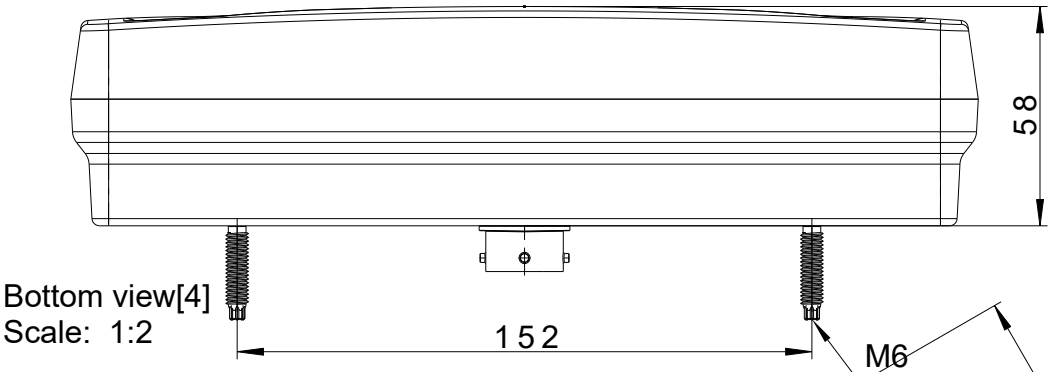
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
general drawing , light emitting ,reflecting
areas and vehicle assembly

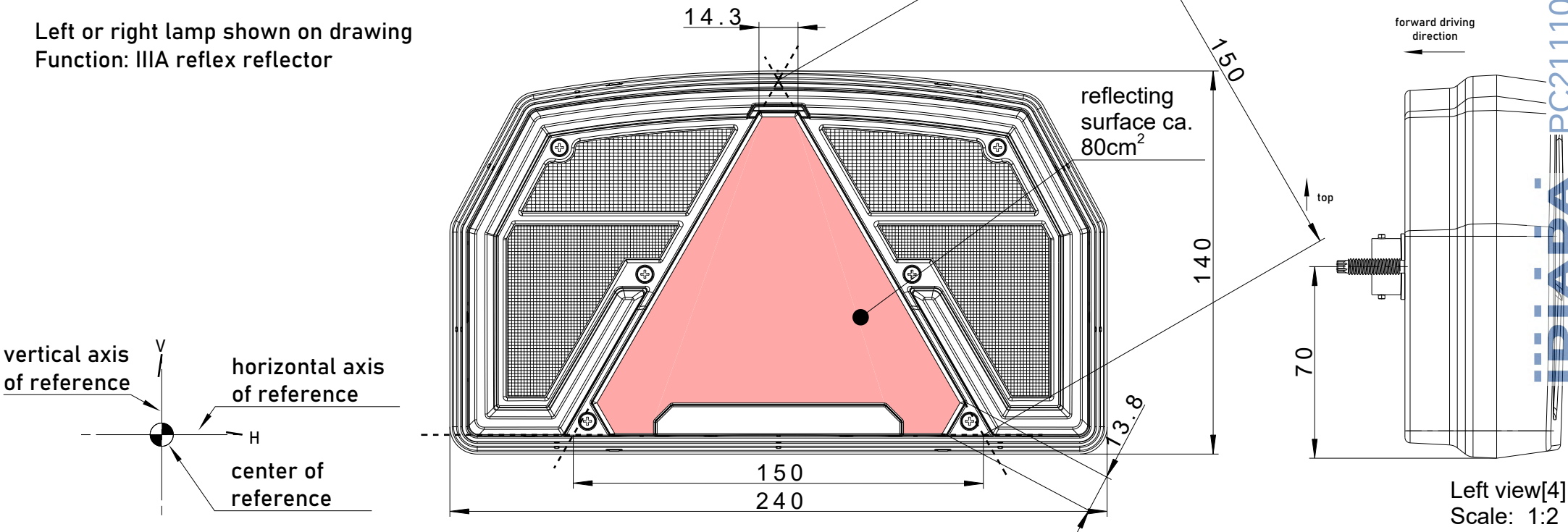
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



Left or right lamp shown on drawing
Function: IIIA reflex reflector



Manufacturer:
FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by: Michał Dybicz
Date: 18-01-2023
Sheet: 6 of 11

Type:
FT-371 LED

LED multifunction rear lamp

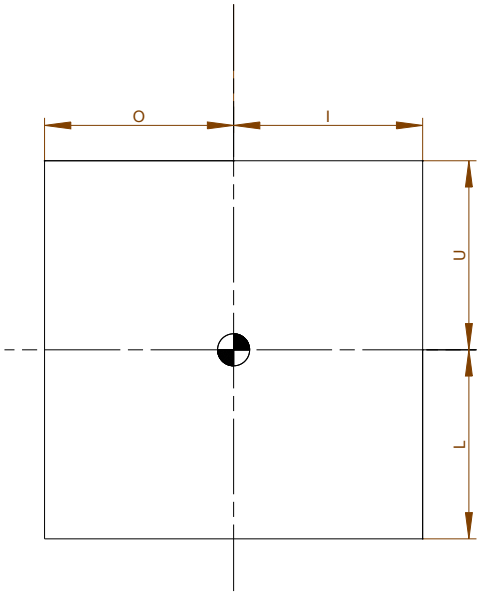
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
illumination surface

This drawing is a part of the application for approval

Material used in manufacturing :

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- housing - ABS black
- S1 lens PMMA transparent red
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- IIIA reflex reflector PMMA red transparent
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- potting compound - epoxy resin



surface dimensions				
function	U (upper limit) [mm]	L (lower limit) [mm]	O (outer limit) [mm]	I (inner limit) [mm]
2a	16,5	16,5	96	96
S1	32	32	100	100
R1	63	63	114	114

Determining the lower , upper and lateral limits of the ilumination surface of the lamp device.
According to European Directive 91/663/EEC , Annex I "Instalation of lighting and light-signalling devices" clause 1.9.2.
According to ECE regulation 48/06 "Instalation of light and light-signalling devices" clause 2.10.3.2.

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Drawn by: Michał Dybicz	Date: 18-01-2023	Sheet: 7 of 11
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Type:
FT-371 LED

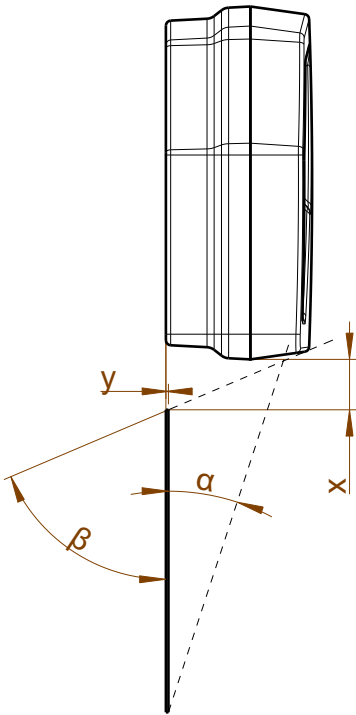
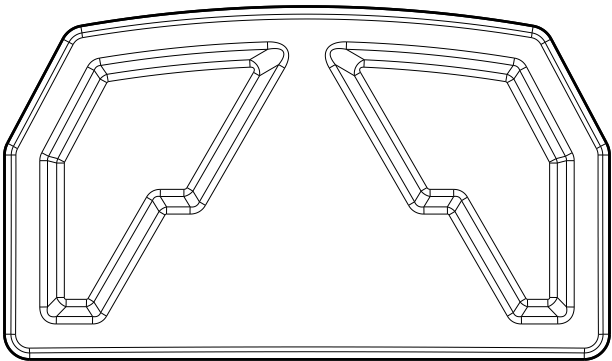
LED multifunction rear lamp

Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
**registration plate light
assembly (category 1b)**
This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



assembly positions for registration plate			
x [mm]	y [mm]	α [deg]	β [deg]
40	10	10,15	56

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Drawn by: Michał Dybicz
Date: 18-01-2023
Sheet: 8 of 11

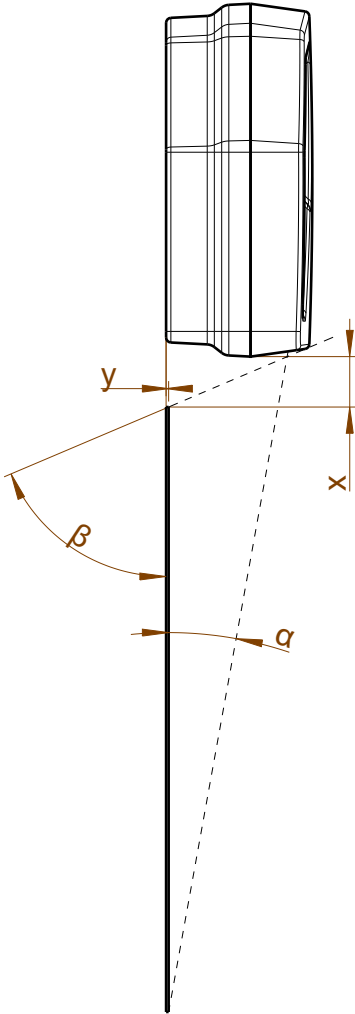
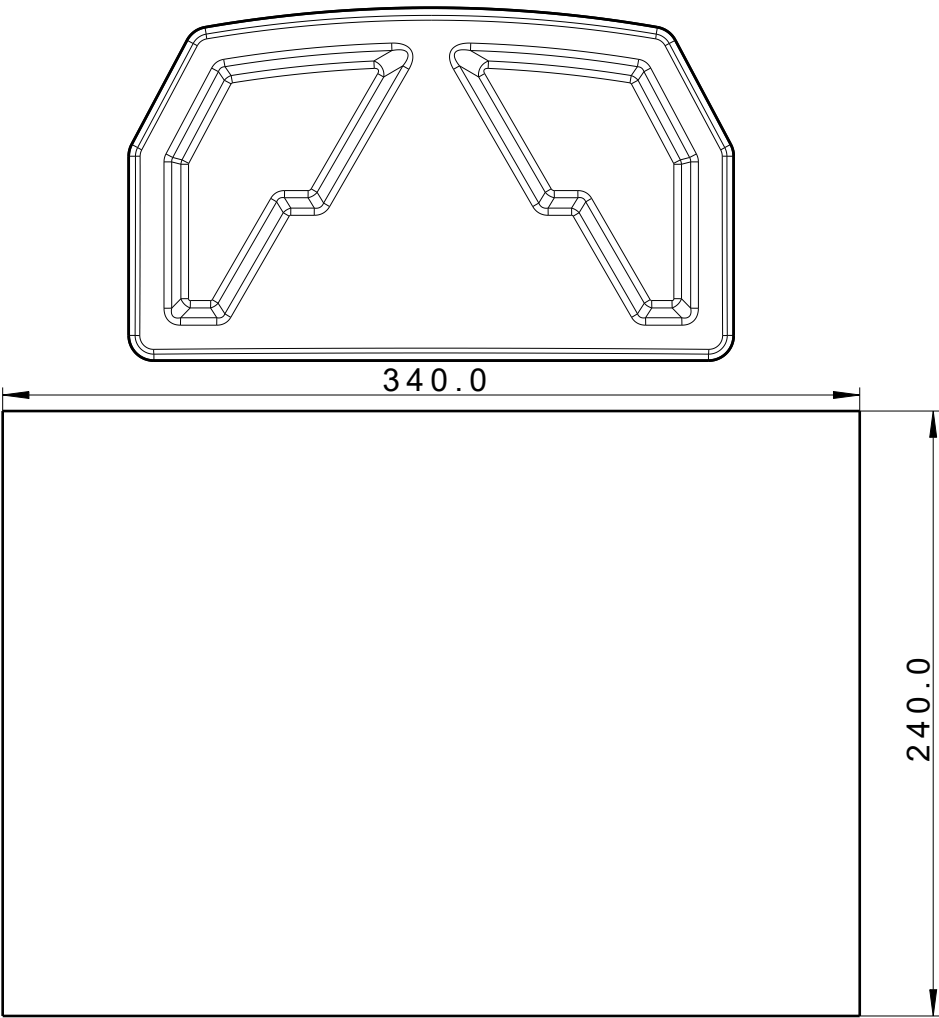
Type:
FT-371 LED

LED multifunction rear lamp

Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
registration plate light
assembly (category 1a)
This drawing is a part of the application for approval

Material used in manufacturing :
- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red
diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



assembly positions for registration plate			
x [mm]	y [mm]	α [deg]	β [deg]
20	0	8,1	67
30	0	8	56

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Date: 18-01-2023
Sheet: 9 of 11

Type:
FT-371 LED

LED multifunction rear lamp

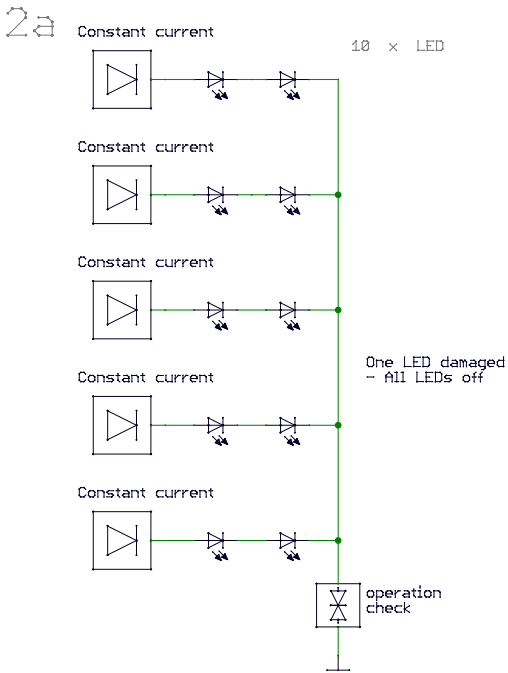
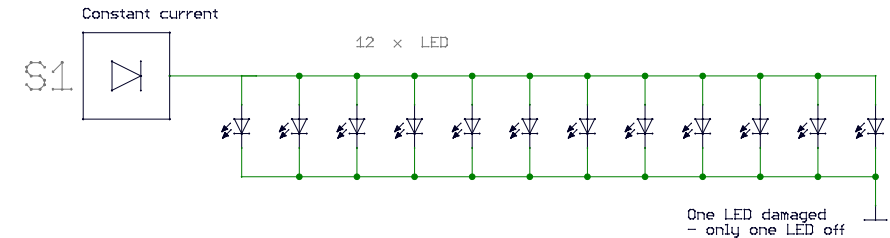
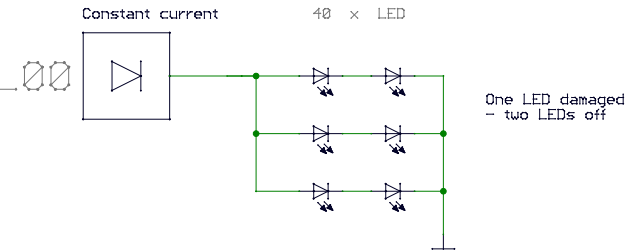
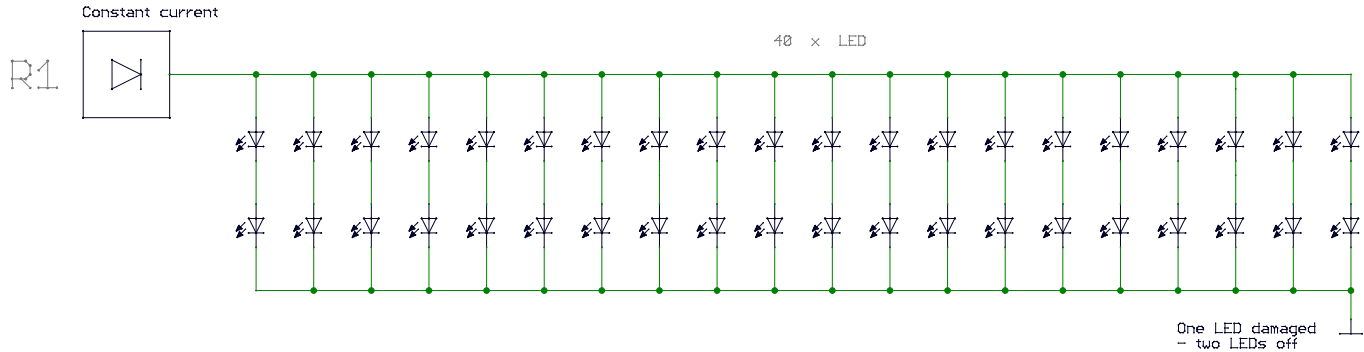
Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
LED connection and failure information

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin



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Date: 18-01-2023
Sheet: 10 of 11

Type:
FT-371 LED

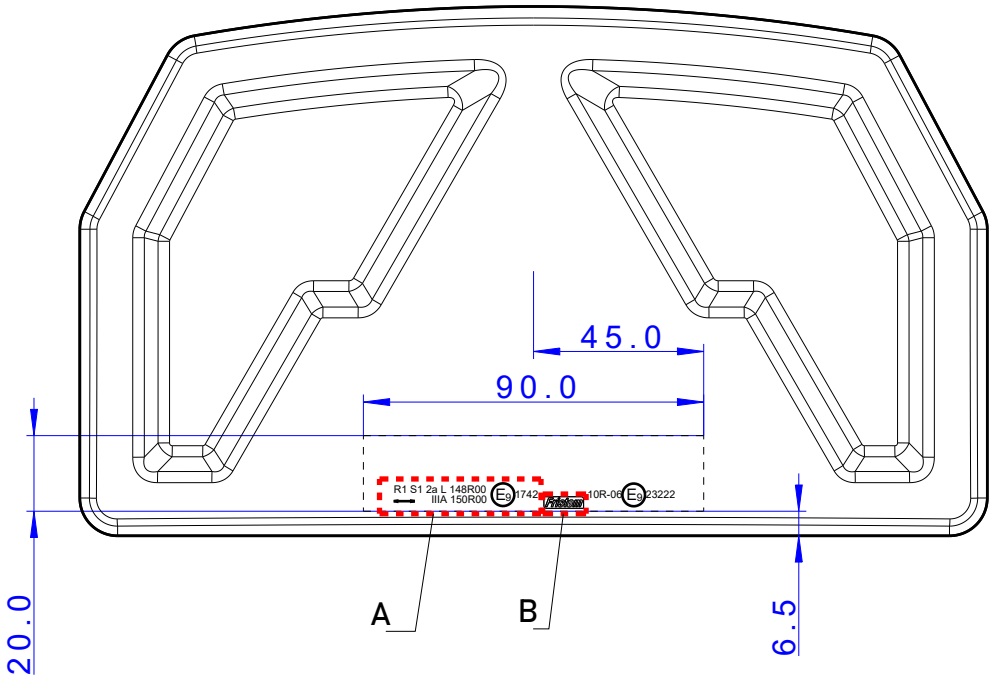
LED multifunction rear lamp

Light source:
LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:
approval , trademark and electrical parameters markings
electrical connection of LED's
This drawing is a part of the application for approval

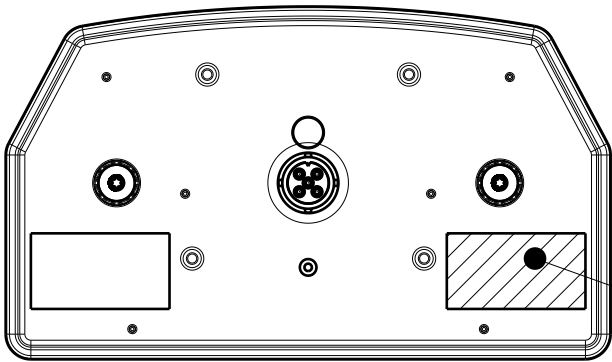
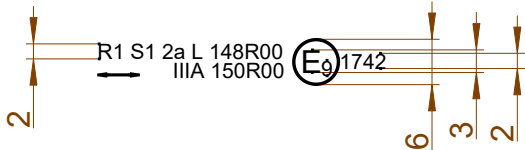
Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin

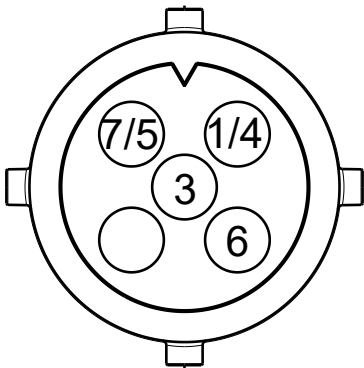


A	trademark location (appears visible under the lampshade)
B	approval numbers

approval marking dimensions



electrical parameters marking



12 V

Function	PIN	Color	Wattage
R1+L	7/5	Brown/Black	6W max
S1	6	Red	6W max
Ground	3	White	
2a	1/4	Green/Yellow	15W max

PC21110307

Manufacturer:

FRISTOM Spółka z ograniczoną odpowiedzialnością Sp.K.
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Drawn by:

Michał Dybicz

Date:

18-01-2023

Sheet:

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Type:

FT-371 LED

LED multifunction rear lamp

Light source:

LED CHIP SMD chip mounted
L - 6 LED's white light color
2a - 10 LED's amber light color
S1 - 12 LED's red light color
R1 - 40 LED's red light color

Description:

trade name variants

This drawing is a part of the application for approval

Material used in manufacturing :

- lampshade PC transparent clear
- housing - ABS black
- S1 lens PMMA transparent red
- R1 lens PMMA or PC transparent red diffusive
- IIIA reflex reflector PMMA red transparent
- 2a lens PMMA transparent amber
- L reflector PC white
- PCB FR4
- potting compound - epoxy resin

Nr	tradename	description
1	FT-371 NT LED	Lampa tylna uniwersalna LED 12-36V, 3-funkcyjna, lewa/prawa bez oświetlenia tablicy rej., przewód o długości 1m.<ang> Universal LED rear lamp 12-36V, 3-functional, left/right without number plate light, 1 m cable.<ang>
	FT-371 NT LED Mxx	Lampa tylna uniwersalna LED 12-36V, 3-funkcyjna, lewa/prawa bez oświetlenia tablicy rej., przewód o długości Mxx.<ang> Universal LED rear lamp 12-36V, 3-functional, left/right without number plate light, Mxx cable.<ang>
2	FT-371 TD LED	Lampa tylna uniwersalna LED 12V, 4-funkcyjna, lewa/prawa z dolnym oświetleniem tab. rej., przewód o długości 1m.<ang> Universal LED rear lamp 12V, 4-functional, left/right with bottom number plate light, 1 m cable.<ang>
	FT-371 TD LED Mxx	Lampa tylna uniwersalna LED 12V, 4-funkcyjna, lewa/prawa z dolnym oświetleniem tab. rej., przewód o długości Mxx.<ang> Universal LED rear lamp 12V, 4-functional, left/right with bottom number plate light, Mxx cable.<ang>
3	FT-370 NT LED BAJONET 5PIN	Lampa tylna uniwersalna LED 12V, 3-funkcyjna, lewa/prawa bez oświetlenia tablicy rej., złącze bajonet 5PIN.<ang> Universal LED rear lamp 12V, 3-functional, left/right without number plate light, bayonet 5PIN connector.<ang>
4	FT-370 TD LED BAJONET 5PIN	Lampa tylna uniwersalna LED 12V, 4-funkcyjna, lewa/prawa z dolnym oświetleniem tab. rej., złącze bajonet 5PIN.<ang> Universal LED rear lamp 12V, 4-functional, left/right with bottom number plate light, bayonet 5PIN connector.<ang>
15	FT-370 NT LED O BAJONET 5PIN	Lampa tylna uniwersalna LED 12V, 3-funkcyjna, lewa/prawa bez oświetlenia tablicy rej., złącze bajonet 5PIN, z systemem kontroli LED.<ang> Universal LED rear lamp 12V, 3-functional, left/right without number plate light, bayonet 5PIN connector, with LED system control.<ang>
16	FT-370 TD LED O BAJONET 5PIN	Lampa tylna uniwersalna LED 12V, 4-funkcyjna, lewa/prawa z dolnym oświetleniem tab. rej., złącze bajonet 5PIN, z systemem kontroli LED.<ang> Universal LED rear lamp 12V, 4-functional, left/right with bottom number plate light, bayonet 5PIN connector, with LED system control.<ang>
23	FT-370 L TB LED O AMP 7PIN 12V	
24	FT-370 P TB LED O AMP 7PIN 12V	

* where "x" is a digit between 0-9

iDiADA PC21110307