LICHTGRAF

PRODUKT
SELEKTION 2019

LICHTGRAF

PRODUKT SELEKTION 2019

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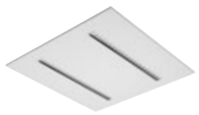
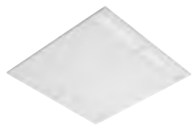

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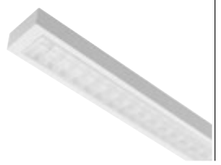

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PRETTUS
POLISHED
LED

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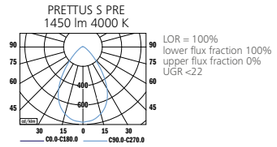
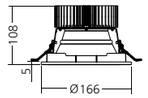
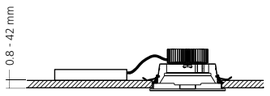


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR <22



MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE	EMERGENCY UNIT 3H (lm)	WEIGHT (kg)	ORDER CODE ECG	EDA	EM
PRETTUS S PRE	1450	15	97	80+	4000	69°	370	0.8	105399	105400	105146
PRETTUS S PRE	1900	19	100	80+	4000	69°	370	0.8	105403	105404	105148

Luminous flux tolerance +/- 10%

Prettus S

220-240V 50-60Hz | LED | CRI 80+ Ra | CCT 4000 K | ECG | EDA DALI | EMERGENCY | IP20 | IP40

EN

Mounting
Ceiling recessed
Optical system
Polished reflector (PRE)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Emergency unit variant (3H, ECG)
Materials
Housing: sheet steel
Diffuser: microprismatic PMMA
Trim: die-cast aluminium
Reflector: polished anodised aluminium
Surface finish
Trim: white RAL 9003 (W03)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C
(from +5°C with EM unit)

DE

Montage
Einbauleuchte
Optisches System
Polierter Reflektor (PRE)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Notbeleuchtung Variante (3H, ECG)
Material
Körper: Stahlblech
Diffusor: mikroprismatisches PMMA
Einfassung: Aluminiumdruckguss
Reflektor: poliertes eloxiertes Aluminium
Oberflächenveredelung
Einfassung: weiss RAL 9003 (W03)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C
(von +5°C mit Notbeleuchtung)

FR

Montage
Plafonnier encastrable
Système optique
Réflecteur poli (PRE)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Variante de l'unité de secours (3H, ECG)
Matériels
Corps: tôle d'acier
Diffuseur: PMMA microprismatique
Moulure: aluminium moulé sous pression
Réflecteur: aluminium anodisé poli
Finition de surface
Moulure: blanc RAL 9003 (W03)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C
(de +5°C avec l'unité de secours)

SK

Montáž
Vsadené
Optický systém
Leštený reflektor (PRE)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Varianta s núdzovou jednotkou (3H, ECG)
Materiál
Teleso: oceľový plech
Difúzor: mikroprizmatický PMMA
Obruč: hliníkový odliatok
Reflektor: leštený anodizovaný hliník
Povrchová úprava
Obruč: biela RAL 9003 (W03)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C
(od +5°C s núdzovou jednotkou)

ES

Montaje
Empotradas en el techo
Sistema óptico
Reflector pulido (PRE)
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Variante unidad de emergencia (3H, ECG)
Material
Cuerpo: lámina de acero
Difusor: microprismático PMMA
Reborde: aluminio presofundido
Reflector: aluminio anodizado pulido
Tratamiento de la superficie
Reborde: blanco RAL 9003 (W03)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C
(desde +5°C con unidad de emergencia)

IT

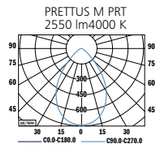
Installazione
Ad incasso a soffitto
Sistema ottico
Riflettore lucido (PRE)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Variante unità di emergenza (3H, ECG)
Materiali
Corpo: lamina d'acciaio
Diffusore: microprisma PMMA
Profilo: pressofusione di alluminio
Riflettore: alluminio anodizzato lucido
Finitura
Profilo: bianco RAL 9003 (W03)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C
(da +5°C con unità di emergenza)

RU

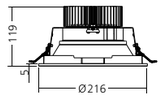
Установка
Потолочная встроенная
Оптическая система
Шлифованный отражатель (PRE)
Электрическое оснащение
Электронный аппарат FIX/DALI (ECG/EDA)
Блок аварийного освещения (3H, ECG)
Материал
Корпус: листовая сталь
Рассеиватель: микроприз. полиметилметакрилат
Накладка: литой алюминий
Отражатель: шлифованный анодированный алюминий
Отделка поверхности
Накладка: белый RAL 9003 (W03)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C
(от +5°C с аварийного освещения)

PRETTUS
POLISHED
LED

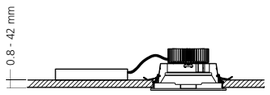
PHOTOMETRY



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR <22



MOUNTING



TYPE	NET LUMEN OUTPUT (AT TA = 25 °C)	POWER CONSUMPTION	SYSTEM EFFICACY	COLOUR RENDERING INDEX	CORRELATED COLOUR TEMPERATURE	BEAM ANGLE	EMERGENCY UNIT 3H	WEIGHT	ORDER CODE		
	(lm)	(W)	(lm/W)	CRI (Ra)	CCT (K)		(lm)	(kg)	ECG	EDA	EM
PRETTUS M PRE	2000	19	105	80+	4000	72°	390	0.9	105363	105364	105194
PRETTUS M PRE	2550	24	106	80+	4000	72°	390	0.9	105367	105368	105198
PRETTUS M PRE	3050	29	105	80+	4000	72°	390	0.9	105371	105372	105202

Luminous flux tolerance +/- 10%

Prettus M

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · EDA DALI · EMERGENCY · IP20 · IP40

EN

Mounting
Ceiling recessed
Optical system
Polished reflector (PRE)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Emergency unit variant (3H, ECG)
Materials
Housing: sheet steel
Diffuser: microprismatic PMMA
Trim: die-cast aluminium
Reflector: polished anodised aluminium
Surface finish
Trim: white RAL 9003 (W03)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C
(from +5°C with EM unit)

DE

Montage
Einbauleuchte
Optisches System
Polierter Reflektor (PRE)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Notbeleuchtung Variante (3H, ECG)
Material
Körper: Stahlblech
Diffusor: mikroprismatisches PMMA
Einfassung: Aluminiumdruckguss
Reflektor: poliertes eloxiertes Aluminium
Oberflächenveredelung
Einfassung: weiss RAL 9003 (W03)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C
(von +5°C mit Notbeleuchtung)

FR

Montage
Plafonnier encastrable
Système optique
Réflecteur poli (PRE)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Variante de l'unité de secours (3H, ECG)
Matériels
Corps: tôle d'acier
Diffuseur: PMMA microprismatique
Moulure: aluminium moulé sous pression
Réflecteur: aluminium anodisé poli
Finition de surface
Moulure: blanc RAL 9003 (W03)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C
(de +5°C avec l'unité de secours)

SK

Montáž
Vsadené
Optický systém
Leštený reflektor (PRE)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Varianta s núdzovou jednotkou (3H, ECG)
Materiál
Teleso: oceľový plech
Difúzor: mikroprizmatický PMMA
Obruč: hliníkový odliatok
Reflektor: leštený anodizovaný hliník
Povrchová úprava
Obruč: biela RAL 9003 (W03)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C
(od +5°C s núdzovou jednotkou)

ES

Montaje
Empotradas en el techo
Sistema óptico
Reflector pulido (PRE)
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Variante unidad de emergencia (3H, ECG)
Material
Cuerpo: lámina de acero
Difusor: microprismático PMMA
Reborde: aluminio presofundido
Reflector: aluminio anodizado pulido
Tratamiento de la superficie
Reborde: blanco RAL 9003 (W03)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C
(desde +5°C con unidad de emergencia)

IT

Installazione
Ad incasso a soffitto
Sistema ottico
Riflettore lucido (PRE)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Variante unità di emergenza (3H, ECG)
Materiali
Corpo: lamina d'acciaio
Diffusore: microprisma PMMA
Profilo: pressofusione di alluminio
Riflettore: alluminio anodizzato lucido
Finitura
Profilo: bianco RAL 9003 (W03)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C
(da +5°C con unità di emergenza)

RU

Установка
Потолочная встроенная
Оптическая система
Шлифованный отражатель (PRE)
Электрическое оснащение
Электронный аппарат FIX/DALI (ECG/EDA)
Блок аварийного освещения (3H, ECG)
Материал
Корпус: листовая сталь
Рассеиватель: микроприз. полиметилметакрилат
Накладка: литой алюминий
Отражатель: шлифованный анодированный алюминий
Отделка поверхности
Накладка: белый RAL 9003 (W03)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C
(от +5°C с аварийного освещения)

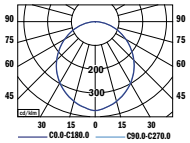
NEW

LED

DOWNLIGHT EC1

OPAL

LED



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR > 28

DOWNLIGHT EC1
1500 lm 4000 K

MOUNTING

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE	WEIGHT (kg)
DOWNLIGHT EC1	1400	16	88	80+	3000	110°	0.6
DOWNLIGHT EC1	1500	16	94	80+	4000	110°	0.6

Luminous flux tolerance +/- 10%

Downlight Ec1

220-240V 50-60Hz | LED | CRI 80+ Ra | CCT 3000 K | CCT 4000 K | ECG | IP 20 | IP 40

EN

Mounting
Ceiling recessed
Light source
LED
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: aluminium
Diffuser: polycarbonate
Surface finish
Trim: white
Service lifetime
40,000 hours
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Einbauleuchte
Lichtquelle
LED
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: Aluminium
Diffusor: Polykarbonat
Oberflächenveredelung
Einfassung: weiss
Lebensdauer
40,000 Stunden
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier encastrable
Source lumineuse
LED
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: aluminium
Diffuseur: polycarbonate
Finition de surface
Moulure: blanc
Durée de vie utile
40,000 heures
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Vsadené
Svetelný zdroj
LED
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: hliník
Difúzor: polykarbonát
Povrchová úprava
Obruč: biela
Servisná životnosť
40,000 hodín
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Empotradas en el techo
Fuente lumínica
LED
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: aluminio
Difusor: policarbonato
Tratamiento de la superficie
Reborde: blanco
Vida útil
40,000 horas
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Ad incasso a soffitto
Sorgente luminosa
LED
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: alluminio
Diffusore: policarbonato
Finitura
Profilo: bianco
Durata di vita
40,000 ore
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

Установка
Потолочная встроенная
Источник света
LED
Оптическая система
матовый рассеиватель (OPD)
Электрическое оснащение
Электронный аппарат FIX (ECG)
Материал
Корпус: алюминий
Рассеиватель: поликарбонат
Отделка поверхности
Накладка: белый
Срок службы
40,000 часов
Температура окружающей среды
От -20 °C до +35 °C

NEW

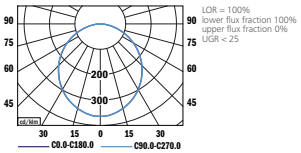
LED

EZAR EC1

OPAL

LED

Ezar Ec1



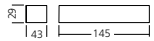
LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 25

EZAR EC1 PV1
3900 lm 4000 K

PV1

PR1

ECG



MOUNTING

PV CEILING (600 x 600)

PR CEILING (625 x 625)

TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
EZAR EC1	3800	43	88	80+	3000	112°	2.7
EZAR EC1	3900	43	91	80+	4000	112°	2.7

Luminous flux tolerance +/- 10%

FRAME FOR PLASTERBOARD INSTALLATION (PB1)

LED LUMINAIRES

220-240V 50-60Hz | LED | CRI 80+ Ra | CCT 3000 K | CCT 4000 K | 4000 ECG | IP 20 | IP 40

EN

Mounting
Ceiling recessed
PVx/PRx - T-ceiling
Light source
LED
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: aluminium
Diffuser: polycarbonate
Accessories
Frame for plasterboard installation (PV version)
Service lifetime
40,000 hours
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Einbauleuchte
PVx/PRx - Sichtbare T-schiene Decke
Lichtquelle
LED
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: aluminium
Diffusor: Polykarbonat
Zubehör
Rahmen für Gipskarton - Installation (PV-Version)
Lebensdauer
40,000 Stunden
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier encastrable
PVx/PRx - Un faux plafond
Source lumineuse
LED
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: aluminium
Diffuseur: polycarbonate
Accessoires
Cadre pour l'installation de plaques de plâtre (version PV)
Durée de vie utile
40,000 heures
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Vsadené
PVx/PRx - Kazetový strop
Svetelný zdroj
LED
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: hliník
Difúzor: polykarbonát
Príslušenstvo
Rám pre montáž do sadrokartónového stropu (PV verzia)
Servisná životnosť
40,000 hodín
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Empotradas en el techo
PVx/PRx - Techo T
Fuente luminica
LED
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: aluminio
Difusor: policarbonato
Accesorios
Capítulo para la instalación de placas de yeso (versión PV)
Vida útil
40,000 horas
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Ad incasso a soffitto
PVx/PRx - Struttura in vista
Sorgente luminosa
LED
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: alluminio
Diffusore: policarbonato
Accessori
Telaio per l'installazione in cartongesso (versione PV)
Durata di vita
40,000 ore
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

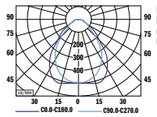
Установка
Потолочная встроенная
PVx/PRx - Кассетный потолок
Источник света
LED
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный аппарат FIX (ECG)
Материал
Корпус: алюминий
Рассеиватель: поликарбонат
Аксессуары
Рамка для установки гипсокартона (PV версия)
Срок службы
40,000 часов
Температура окружающей среды
От -20 °C до +35 °C

LICHTGRAF

3 YEARS WARRANTY | MAINTENANCE FREE | ECO FRIENDLY | ENERGY SAVING | UV/IR | HEAT SINK | EEC A++/A+/A

SANA
MICROPRISMA
LED

PHOTOMETRY



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 19

SANA II PV1
3800 lm 4000 K

PV1

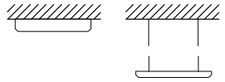
PR1

ECG

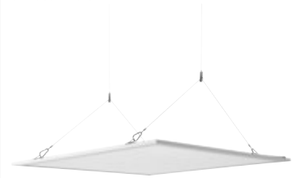
MOUNTING

PV CEILING (600 x 600)

PR CEILING (625 x 625)



ROPE SUSPENSION



FRAME FOR PLASTERBOARD INSTALLATION

FRAME FOR SURFACED INSTALLATION

TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE PV1	ORDER CODE PR1
SANA BSC	3800	33	115	80+	4000	80°	3.7	422001	422002

Luminous flux tolerance +/- 10%

Rope suspension L150	903037
Frame for plasterboard installation	904001
Frame for surfaced installation	905001

Sana BSC

220-240V 50-60Hz · ECG · LED · CRI 80+ Ra · CCT 4000 K · IP20 · IP40

EN

Mounting
Ceiling recessed
PVx/PRx - T-ceiling
Optical system
Microprismatic diffuser (MCD)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: aluminium
Diffuser: polycarbonate
Surface finish
Housing: white RAL 9016
Accessories
Rope suspension
Frame for plasterboard installation
Frame for surfaced installation
Service lifetime
50,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Einbauleuchte
PVx/PRx - Sichtbare T-schiene Decke
Optisches System
Mikroprismatischer Diffusor (MCD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: aluminium
Diffusor: Polykarbonat
Oberflächenveredelung
Körper: weiss RAL 9016
Zubehör
Seilaufhängung
Rahmen für Gipskarton - Installation
Rahmen für tauchte Installation
Lebensdauer
50,000 hours/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier encastrable
PVx/PRx - Un faux plafond
Système optique
Diffuseur microprisme (MCD)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: aluminium
Diffuseur: polycarbonate
Finition de surface
Corps: blanc RAL 9016
Accessoires
Câble de suspension
Cadre pour l'installation de plaques de plâtre
Cadre pour plafonnier apparent
Durée de vie utile
50,000 hours/L70/B50 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Vsadené
PVx/PRx - Kazetový strop
Optický systém
Mikroprizmatický difúzor (MCD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: hliník
Difúzor: polykarbonát
Povrchová úprava
Teleso: biela RAL 9016
Príslušenstvo
Lankový záves
Rám pre montáž do sadrokartónového stropu
Rám pre prisadenie
Servisná životnosť
50,000 hours/L70/B50 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Empotradas en el techo
PVx/PRx - Techo T
Sistema óptico
Difusor microprismático (MCD)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: aluminio
Difusor: policarbonato
Tratamiento de la superficie
Cuerpo: blanco RAL 9016
Accesorios
Cable de suspensión
Capítulo para la instalación de placas de yeso
Capítulo para la instalación superficie
Vida útil
50,000 hours/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Ad incasso a soffitto
PVx/PRx - Struttura in vista
Sistema ottico
Diffusore microprismatico (MCD)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: alluminio
Diffusore: policarbonato
Finitura
Corpo: bianco RAL 9016
Accessori
Cavo di sospensione
Telaio per l'installazione in cartongesso
Cornice per l'installazione affiorata
Durata di vita
50,000 hours/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

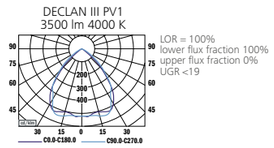
RU

Установка
Потолочная встроенная
PVx/PRx - Кассетный потолок
Оптическая система
Микропризматический рассеиватель (MCD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: алюминий
Рассеиватель: поликарбонат
Отделка поверхности
Корпус: белый RAL 9016
Аксессуары
Тросовый подвес
Рамка для установки гипсокартона
Рамка для всплыли установки
Срок службы
50,000 hours/L7E0/B50 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

LICHTGRAF · 5 YEARS WARRANTY · MAINTENANCE FREE · ECO FRIENDLY · ENERGY SAVING · UV/IR · EEC A++/A+/A

DECLAN
PAR-L
LED

PHOTOMETRY



PV1

PR1

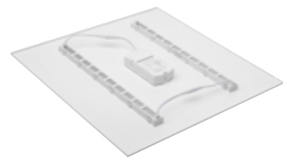
ECG

EDA

MOUNTING

PV CEILING (600 x 600)

PR CEILING (625 x 625)



FRAME FOR PLASTERBOARD INSTALLATION

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C)	POWER CONSUMPTION	SYSTEM EFFICACY	COLOUR RENDERING INDEX	CORRELATED COLOUR TEMPERATURE	BEAM ANGLE	WEIGHT	ORDER CODE			
								ECG		EDA	
	(lm)	(W)	(lm/W)	CRI (Ra)	CCT (K)	(C0-180, C90-270)	(kg)	PV	PR	PV	PR
DECLAN III ECG / EDA	3500	32 / 30	109 / 117	80+	4000	85°	2.7	415002	415006	415004	415008

Luminous flux tolerance +/- 10%.

Frame for plasterboard installation	904001

Declan III

220-240V 50-60Hz | LED | CRI 80+ Ra | CCT 4000 K | ECG | EDA DALI | IP 20

EN

Mounting
Ceiling recessed
PVx/PRx - T-ceiling
Optical system
Difuser + reflector (PAR-L)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: sheet steel
Reflector: polished metallished polycarbonate
Surface finish
Housing: white RAL 9003 (W03)
Service lifetime
50,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Einbauleuchte
PVx/PRx - Sichtbare T-schiene Decke
Optisches System
Diffusor + Reflektor (PAR-L)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Stahlblech
Reflektor: metallisiertes Polykarbonat
Oberflächenveredelung
Körper: Weiss RAL 9003 (W03)
Lebensdauer
50,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier encastrable
PVx/PRx - Un faux plafond
Système optique
Diffuseur + réflecteur (PAR-L)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: tôle d'acier
Réflecteur: polycarbonate métalisé
Finition de surface
Corps: blanc RAL 9003 (W03)
Durée de vie utile
50,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Vsadené
PVx/PRx - Kazetový strop
Optický systém
Difúzor + reflektor (PAR-L)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Materiál
Teleso: oceľový plech
Reflektor: pokovený polykarbonát
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Servisná životnosť
50,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Empotradas en el techo
PVx/PRx - Techo T
Sistema óptico
Difusor + reflector (PAR-L)
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Material
Cuerpo: lámina de acero
Reflector: policarbonato metalizado
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Vida útil
50,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Ad incasso a soffitto
PVx/PRx - Struttura in vista
Sistema ottico
Diffusore + riflettore (PAR-L)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: lamina d'acciaio
Riflettore: policarbonato metallizzato
Finitura
Corpo: bianco RAL 9003 (W03)
Durata di vita
50,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

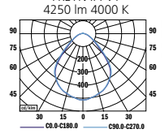
RU

Установка
Потолочная встроенная
PVx/PRx - Кассетный потолок
Оптическая система
Рассеиватель + отражатель (PAR-L)
Электрическое оснащение
Электронный аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: листовая сталь
Отражатель: металлизированная поликарбонат
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Срок службы
50,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

FREYN
MICROPRISMA
LED

PHOTOMETRY

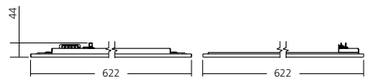
FREYN II PV1
4250 lm 4000 K

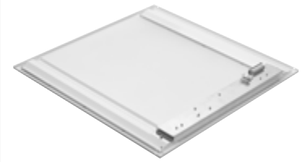


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR <19

PV1

PR1





MOUNTING

PV CEILING (600 x 600)

PR CEILING (625 x 625)

FRAME FOR PLASTERBOARD INSTALLATION

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C)	POWER CONSUMPTION	SYSTEM EFFICACY	COLOUR RENDERING INDEX	CORRELATED COLOUR TEMPERATURE	BEAM ANGLE	EMERGENCY UNIT 3H	WEIGHT	ORDER CODE ECG		ORDER CODE EDA		ORDER CODE EM	
	(lm)	(W)	(lm/W)	CRI (Ra)	CCT (K)	(C0-180, C90-270)	(lm)	(kg)	PV	PR	PV	PR	PV	PR
FREYN II PV/PR1	3100	22	141	80+	4000	85°, 90°	430	3.0	419020	419028	419018	419026	419052	419060
FREYN II PV/PR1	4250	31	137	80+	4000	85°, 90°	430	3.0	419004	419008	419002	419006	419036	419040

Luminous flux tolerance +/- 10%.

Frame for plasterboard installation	904001

Freyn II Recessed

220-240V 50-60Hz | LED | CRI 80+ Ra | CCT 4000 K | ECG | EDA DALI | EMERGENCY | IP20 | IP40

EN

Mounting
Ceiling recessed
PVx/PRx - T-ceiling
Optical system
Microprismatic diffuser (MCD)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Emergency unit variant (3H, ECG)
Materials
Housing: sheet steel
Diffuser: PMMA
Surface finish
Housing: white RAL 9003 (W03)
Accessories
Frame for plasterboard installation
Service lifetime
50,000 hours/L90/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C
(from +5°C with EM unit)

DE

Montage
Einbauleuchte
PVx/PRx - Sichtbare T-schiene Decke
Optisches System
Mikroprismatischer Diffusor (MCD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Notbeleuchtung Variante (3H, ECG)
Material
Körper: Stahlblech
Diffusor: PMMA
Oberflächenveredelung
Körper: Weiss RAL 9003 (W03)
Zubehör
Rahmen für Gipskarton -Installation
Lebensdauer
50,000 Stunden/L90/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C
(von +5°C mit Notbeleuchtung)

FR

Montage
Plafonnier encastrable
PVx/PRx - Un faux plafond
Système optique
Diffuseur microprisme (MCD)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Variante de l'unité de secours (3H, ECG)
Matériels
Corps: tôle d'acier
Diffuseur: PMMA
Finition de surface
Corps: blanc RAL 9003 (W03)
Accessoires
Cadre pour l'installation de plaques de plâtre
Durée de vie utile
50,000 heures/L90/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C
(de +5°C avec l'unité de secours)

SK

Montáž
Vsadené
PVx/PRx - Kazetový strop
Optický systém
Mikroprizmatický difúzor (MCD)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Varianta s núdzovou jednotkou (3H, ECG)
Materiál
Teleso: oceľový plech
Difúzor: PMMA
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Príslušenstvo
Rám pre montáž do sadrokartónového stropu
Servisná životnosť
50,000 hodín/L90/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C
(od +5°C s núdzovou jednotkou)

ES

Montaje
Empotradas en el techo
PVx/PRx - Techo T
Sistema óptico
Difusor microprismático (MCD)
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Variante unidad de emergencia (3H, ECG)
Material
Cuerpo: lámina de acero
Difusor: PMMA
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Accesorios
Capítulo para la instalación de placas de yeso
Vida útil
50,000 horas/L90/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C
(desde +5°C con unidad de emergencia)

IT

Installazione
Ad incasso a soffitto
PVx/PRx - Struttura in vista
Sistema ottico
Diffusore microprismatico (MCD)
Cablaggio
Ballast elettronico FIX/DALI
(ECG/EDA)
Variante unità di emergenza (3H, ECG)
Materiali
Corpo: lamina d'acciaio
Diffusore: PMMA
Finitura
Corpo: bianco RAL 9003 (W03)
Accessori
Telaio per l'installazione in cartongesso
Durata di vita
50,000 ore/L90/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C
(da +5°C con unità di emergenza)

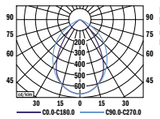
RU

Установка
Потолочная встроенная
PVx/PRx - Кассетный потолок
Оптическая система
Микропризматический рассеиватель (MCD)
Электрическое оснащение
Электронный аппарат FIX/DALI (ECG/EDA)
Блок аварийного освещения (3H, ECG)
Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Аксессуары
Рамка для установки гипсокартона)
Срок службы
50,000 часов/L90/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C
(от +5°C с аварийного освещения)

CLASSIC
PAR MAT-V2
LED

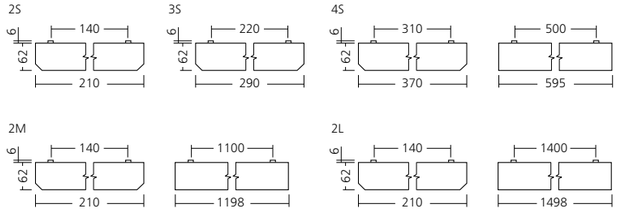
Classic Led

PHOTOMETRY

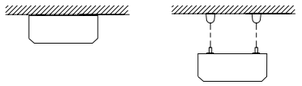


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 19

CLASSIC LED 3S
3300 lm 4000 K



MOUNTING



CLASSIC LED 4S

CLASSIC LED 2S

RS-S 03 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)

TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE
CLASSIC 2S	2200	21	105	80+	4000	68°, 85°	2.4	513009
CLASSIC 3S	3300	31	106	80+	4000	67°, 86°	2.7	513015
CLASSIC 4S	4500	41	110	80+	4000	68°, 85°	3.7	513020
CLASSIC 2M	4400	41	107	80+	4000	68°, 88°	3.8	513011
CLASSIC 2L	5500	51	108	80+	4000	68°, 88°	4.4	513005

Luminous flux tolerance +/- 10%.

Rope suspension RS-S 03 L150 SQ	903015
Rope suspension RS-S 03 L150 RD	903003

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · IP 20

EN

Mounting
Surfaced/Suspended (SSx)
Optical system
Matt parabolic louvre PAR MAT-V2 (ML2)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium
Surface finish
Housing: white RAL 9003 (W03)
Accessories
Rope suspension RS-S 03
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -25 °C to +35 °C

DE

Montage
Deckenleuchte/Hängend (SSx)
Optisches System
Matter parabolischer Raster PAR MAT-V2 (ML2)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: Stahlblech
Diffusor: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium
Oberflächenveredelung
Körper: weiss RAL 9003 (W03)
Zubehör
Seilaufhängung RS-S 03
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -25 °C bis +35 °C

FR

Montage
Plafonnier apparent/Suspendu (SSx)
Système optique
Grille parabolique mat PAR MAT-V2 (ML2)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: tôle d'acier
Diffuseur: PMMA
Grille parabolique: aluminium anodisé mat
Finition de surface
Corps: blanc RAL 9003 (W03)
Accessoires
Câble de suspension RS-S 03
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -25 °C à +35 °C

SK

Montáž
Prisadené/Závesné (SSx)
Optický systém
Matná parabolická mriežka PAR MAT-V2 (ML2)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: oceľový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Príslušenstvo
Lankový záves RS-S 03
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -25 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo/Suspendidas (SSx)
Sistema óptico
Rejilla parabólica mate PAR MAT-V2 (ML2)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Accesorios
Cable de suspensión RS-S 03
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -25 °C a +35 °C

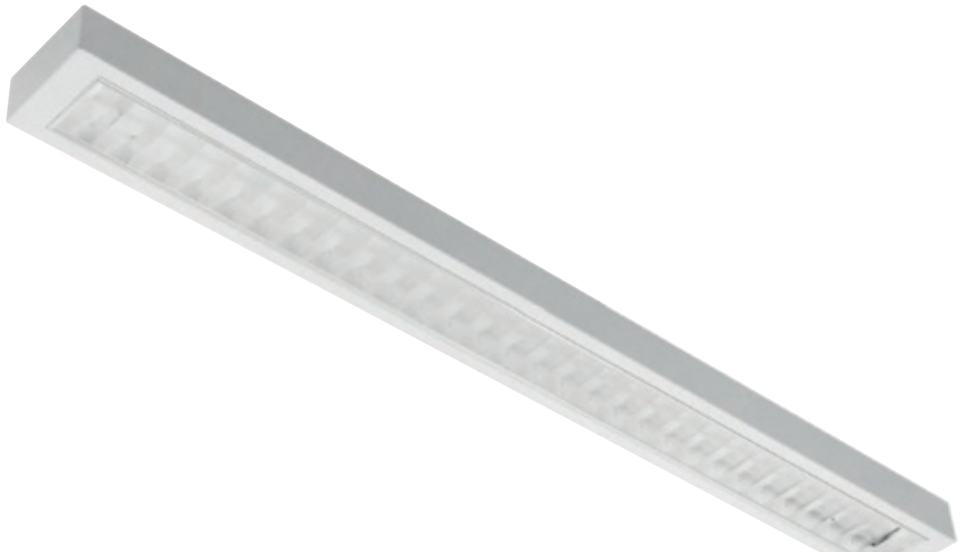
IT

Installazione
A plafone/A sospensione (SSx)
Sistema ottico
Griglia parabolica opaca PAR MAT-V2 (ML2)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: lamina d'acciaio
Diffusore: PMMA
Griglia parabolica: alluminio anodizzato opaco
Finitura
Corpo: bianco RAL 9003 (W03)
Accessori
Cavo di sospensione RS-S 03
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -25 °C a +35 °C

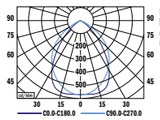
RU

Установка
Потолочная накладная/Подвесная (SSx)
Оптическая система
Матовая параболическая решетка PAR MAT-V2 (ML2)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Параболическая решетка: матовый анодированный алюминий
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Аксессуары
Тросовый подвес RS-S 03
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -25 °C до +35 °C

MODUL LMD
PAR MAT-V2
LED

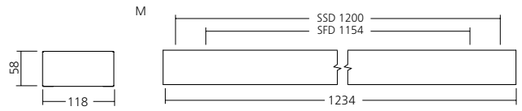


PHOTOMETRY

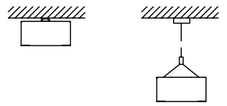


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 19 / < 22

MODUL LMD LED M
5850 lm 4000 K



MOUNTING



RS-S 58 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)

TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE
MODUL LMD LED M	2350	21	112	80+	4000	75°, 89°	3.8	517011
MODUL LMD LED M	5850	49	119	80+	4000	75°, 89°	3.8	517015

Luminous flux tolerance +/- 10%.

Rope suspension RS-S 58 L150 SQ	903033
Rope suspension RS-S 58 L150 RD	903030

Modul LMD Led

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · IP20

EN

Mounting
Surfaced/Suspended (S/S)
Optical system
Matt parabolic louvre PAR MAT-V2 (ML2)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium
Surface finish
Housing: white RAL 9003 (W03)
Accessories
Rope suspension RS-S 58
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte/Hängend (S/S)
Optisches System
Matter parabolischer Raster PAR MAT-V2 (ML2)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: Stahlblech
Diffusor: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium
Oberflächenveredelung
Körper: weiss RAL 9003 (W03)
Zubehör
Seilaufhängung RS-S 58
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent/Suspendu (S/S)
Système optique
Grille parabolique mat PAR MAT-V2 (ML2)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: tôle d'acier
Diffuseur: PMMA
Grille parabolique: aluminium anodisé mat
Finition de surface
Corps: blanc RAL 9003 (W03)
Accessoires
Câble de suspension RS-S 58
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené/Závesné (S/S)
Optický systém
Matná parabolická mriežka PAR MAT-V2 (ML2)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: oceľový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Príslušenstvo
Lankový záves RS-S 58
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo/Suspendidas (S/S)
Sistema óptico
Rejilla parabólica mate PAR MAT-V2 (ML2)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Accesorios
Cable de suspensión RS-S 58
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
A plafone/A sospensione (S/S)
Sistema ottico
Griglia parabolica opaca PAR MAT-V2 (ML2)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: lamina d'acciaio
Diffusore: PMMA
Griglia parabolica: alluminio anodizzato opaco
Finitura
Corpo: bianco RAL 9003 (W03)
Accessori
Cavo di sospensione RS-S 58
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

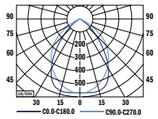
RU

Установка
Потолочная накладная/Подвесная (S/S)
Оптическая система
Матовая параболическая решетка PAR MAT-V2 (ML2)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Параболическая решетка: матовый анодированный алюминий
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Аксессуары
Тросовый подвес RS-S 58
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

LICHTGRAF · 5 YEARS WARRANTY · MAINTENANCE FREE · ECO FRIENDLY · ENERGY SAVING · UV/IR · EEC A++/A+/A

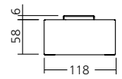
MODUL LMD
PAR MAT-V2
LED

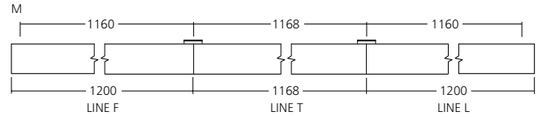
PHOTOMETRY



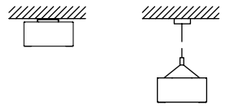
LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 19 / < 22

MODUL LMD LED M
5850 lm 4000 K





MOUNTING



RS-C 19/58 L150 (SUSPENSION IN CONNECTION)

RS-S 58 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)

TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE F	T	L
MODUL LMD LINE LED M	2350	21	112	80+	4000	75°, 89°	3.8	313047	313051	313049
MODUL LMD LINE LED M	5850	49	119	80+	4000	75°, 89°	3.8	313059	313063	313061

Luminous flux tolerance +/- 10%.

Rope suspension RS-S 58 L150 SQ	903033
Rope suspension RS-S 58 L150 RD	903030
Rope suspension RS-C 18-58 L150	903031

Modul LMD Line Led

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · IP 20

EN

Mounting
Ceiling surfaced or suspended - determined for continuous installation (MDS)
Optical system
Matt parabolic louvre PAR MAT-V2 (ML2)
Wiring
Electronic control gear FIX (ECG)
Through wiring (F, T version)
Materials
Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium
Surface finish
Housing: white RAL 9003 (W03)
Accessories
Rope suspension RS-S 58 and RS-C 19/58
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte oder Hänge - mit Erweiterungsmöglichkeit (MDS)
Optisches System
Matter parabolischer Raster PAR MAT-V2 (ML2)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Durchgangsverdrahtung (F, T Version)
Material
Körper: Stahlblech
Diffusor: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium
Oberflächenveredelung
Körper: weiss RAL 9003 (W03)
Zubehör
Seilaufhängung RS-S 58 und RS-C 19/58
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent u suspendu - conçu pour une installation continue (MDS)
Système optique
Grille parabolique mat PAR MAT-V2 (ML2)
Équipement électrique
Ballast électronique FIX (ECG)
Câblage traversant (version F, T)
Matériels
Corps: tôle d'acier
Diffuseur: PMMA
Grille parabolique: aluminium anodisé mat
Finition de surface
Corps: blanc RAL 9003 (W03)
Accessoires
Câble de suspension RS-S 58 et RS-C 19/58
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené alebo závesné - predučené na montáž do línií (MDS)
Optický systém
Matná parabolická mriežka PAR MAT-V2 (ML2)
Elektrická výbava
Elektronický predradník FIX (ECG)
Priebežné vinutie (F, T verzia)
Materiál
Teleso: oceľový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Príslušenstvo
Lankový záves RS-S 58 a RS-C 19/58
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuesto en el techo o suspendido - epecifico para instalaciones continuas (MDS)
Sistema óptico
Rejilla parabólica mate PAR MAT-V2 (ML2)
Cableado
Equipo de control electronico FIX (ECG)
Cáblage traversant (versión F, T)
Material
Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Accesorios
Cable de suspensión RS-S 58 y RS-C 19/58
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

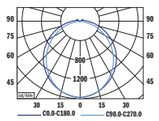
Installazione
A plafone o apparecchi illuminanti a sospensione - per installazioni in linea (MDS)
Sistema ottico
Griglia parabolica opaca PAR MAT-V2 (ML2)
Cablaggio
Ballast elettronico FIX (ECG)
Cavi passanti (versioni F, T)
Materiali
Corpo: lamina d'acciaio
Diffusore: PMMA
Griglia parabolica: alluminio anodizzato opaco
Finitura
Corpo: bianco RAL 9003 (W03)
Accessori
Cavo di sospensione RS-S 58 e RS-C 19/58
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

Установка
Потолочная накладная или подвесная - рассчитанная на долговременную установку (MDS)
Оптическая система
Матовая параболическая решетка PAR MAT-V2 (ML2)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Сквозная проводка (варианты F, T)
Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Параболическая решетка: матовый анодированный алюминий
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Аксессуары
Тросовый подвес RS-S 58 и RS-C 19/58
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

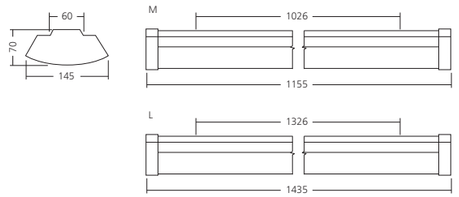
PLAST
OPAL
LED

PHOTOMETRY

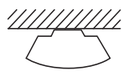


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 28

PLAST SI1 L
6100 lm 4000 K



MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE ECG	ORDER CODE EDA
PLAST SI1 M	3950	38	104	80+	3000	115°,105°	2.2	542005	542006
PLAST SI1 M	4150	38	109	80+	4000	115°,105°	2.2	542007	542008
PLAST SI1 L	4650	43	108	80+	3000	115°,105°	2.6	542001	542002
PLAST SI1 L	4900	43	114	80+	4000	115°,105°	2.6	542003	542004

Luminous flux tolerance +/- 10%

Plast SI1

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 3000 K · CCT 4000 K · ECG · EDA DALI · IP 44 · IK 08

EN

Mounting
Surfaced (SFD)
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: sheet steel
Diffuser: polycarbonate
End caps: polycarbonate
Service lifetime
50,000 hours/L90/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte (SFD)
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Stahlblech
Diffusor: Polykarbonat
Abschlüsse: Polykarbonat
Lebensdauer
50,000 Stunden/L90/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent (SFD)
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: tôle d'acier
Diffuseur: polycarbonate
Extrémités: polycarbonate
Durée de vie utile
50,000 heures/L90/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené (SFD)
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Materiál
Teleso: oceľový plech
Difúzor: polykarbonát
Koncovky: polykarbonát
Servisná životnosť
50,000 hodín/L90/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo (SFD)
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Material
Cuerpo: lámina de acero
Difusor: policarbonato
Tapas en los extremos: policarbonato
Vida útil
50,000 horas/L90/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

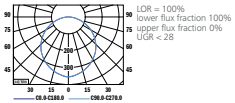
Installazione
A plafone (SFD)
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: lamina d'acciaio
Diffusore: policarbonato
Terminali: policarbonato
Durata di vita
50,000 ore/L90/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

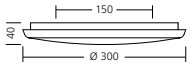
Установка
Потолочная накладная (SFD)
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: листовая сталь
Рассеиватель: поликарбонат
Торцевые крышки: поликарбонат
Срок службы
50,000 часов/L90/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

PLAST
OPAL
LED

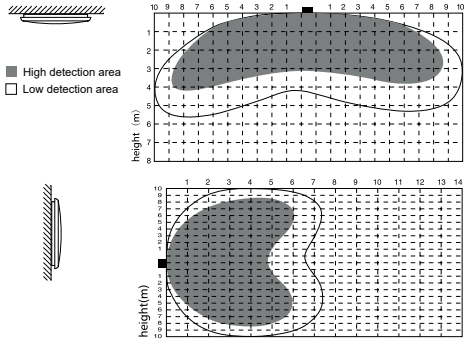
PHOTOMETRY



PLAST B
2300 lm 4000 K



MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE without SENSOR	ORDER CODE with SENSOR
PLAST B	2300	25	92	80+	4000	112°	1.0	510001	510004

Luminous flux tolerance +/- 10%

Plast B

220-240V 50-60Hz | LED | CRI 80+ Ra | CCT 4000 K | ECG | IP 54 | IK 08

EN

Mounting
Ceiling surfaced (SFD)
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX (ECG)
Microwave sensor
Materials
Housing: polycarbonate
Diffuser: polycarbonate
Service lifetime
40,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte (SFD)
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Mikrowellensensor einstellbar
Material
Körper: Polykarbonat
Diffusor: Polykarbonat
Lebensdauer
40,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent (SFD)
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX (ECG)
Capteur de micro-onde
Matériels
Corps: polycarbonate
Diffuseur: polycarbonate
Durée de vie utile
40,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené (SFD)
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Mikrovlnný senzor
Materiál
Teleso: polykarbonát
Difúzor: polykarbonát
Servisná životnosť
40,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo (SFD)
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electronico FIX (ECG)
Sensor de microondas
Material
Cuerpo: policarbonato
Difusor: policarbonato
Vida útil
40,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
A plafone (SFD)
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX (ECG)
Sensore a microonde
Materiali
Corpo: policarbonato
Diffusore: policarbonato
Durata di vita
40,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

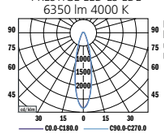
Установка
Потолочная накладная (SFD)
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Микроволновый датчик
Материал
Корпус: поликарбонат
Рассеиватель: поликарбонат
Срок службы
40,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

PRESTIGE LED
LENSES
LED

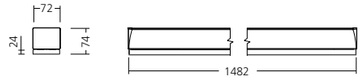
Prestige LED LS

PHOTOMETRY

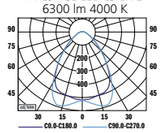
PRESTIGE LED LS LDE
6350 lm 4000 K



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR <22

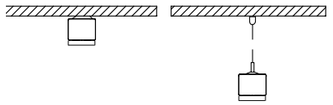


PRESTIGE LED LS LWE
6300 lm 4000 K

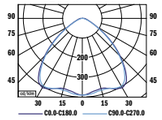


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 25

MOUNTING

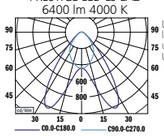


PRESTIGE LED LS LEW
6200 lm 4000 K



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 25

PRESTIGE LED LS LA2
6400 lm 4000 K



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR <25

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE ECG	ORDER CODE EDA
PRESTIGE LED LS LDE	6350	42	151	80+	4000	25°	2.8	311121	311122
PRESTIGE LED LS LDE	8550	60	143	80+	4000	25°	2.8	311127	311128
PRESTIGE LED LS LDE	10,700	80	134	80+	4000	25°	2.8	311123	311124
PRESTIGE LED LS LWE	6300	42	150	80+	4000	80°	2.8	311099	311100
PRESTIGE LED LS LWE	8550	60	143	80+	4000	80°	2.8	311101	311102
PRESTIGE LED LS LWE	10,650	80	133	80+	4000	80°	2.8	311097	311098
PRESTIGE LED LS LEW	6200	42	148	80+	4000	100°	2.8	311109	311110
PRESTIGE LED LS LEW	8350	60	139	80+	4000	100°	2.8	311115	311116
PRESTIGE LED LS LEW	10,450	80	131	80+	4000	100°	2.8	311113	311114
PRESTIGE LED LS LA2	6400	42	152	80+	4000	72°, 87°	2.8	311141	311142
PRESTIGE LED LS LA2	8650	60	144	80+	4000	72°, 87°	2.8	311137	311138
PRESTIGE LED LS LA2	10,800	80	135	80+	4000	72°, 87°	2.8	311143	311144

Luminous flux tolerance +/- 10 %.

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · EDA DALI · IP 20

EN

Mounting
Suspended or ceiling surfaced
- determined for continuous installation (MDS)
Optical system
Deep lenses (LDE)
Wide lenses (LWE)
Extra wide lenses (LEW)
Double asymmetric lenses (LA2)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: sheet steel
Lenses: PMMA
Surface finish
Housing: white RAL 9003 (W03)
Accessories
Components for system PRESTIGE
Service lifetime
50,000 hours/L80/B10 (ta 25°C) - 42/60W
50,000 hours/L80/B50 (ta 25°C) - 80W
Ambient temperature
from -20°C to +35 °C

DE

Montage
Hänge- oder Deckenleuchte
- mit Erweiterungsmöglichkeit (MDS)
Optisches System
Tiefe Linsen (LDE)
Weiten Linsen (LWE)
Extra weiten Linsen (LEW)
Doppel-asymmetrische Linsen (LA2)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Stahlblech
Linsen: PMMA
Oberflächenveredelung
Körper: weiss RAL 9003 (W03)
Zubehör
Komponenten für System PRESTIGE
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C) - 42/60W
50,000 Stunden/L80/B50 (ta 25°C) - 80W
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier suspendu ou apparent
- conçu pour une installation continue (MDS)
Système optique
Profonde Lentiles (LDE)
Large Lentiles (LWE)
Extra-large Lentiles (LEW)
Lentilles double asymétrique (LA2)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: tôle d'acier
Lentiles: PMMA
Finition de surface
Corps: blanc RAL 9003 (W03)
Accessoires
Composants pour le PRESTIGE du système
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C) - 42/60W
50,000 heures/L80/B50 (ta 25°C) - 80W
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Závesné alebo prisadené
- predučené na montáž do línií (MDS)
Optický systém
Hlboké šošovky (LDE)
Široké šošovky (LWE)
Extra široké šošovky (LEW)
Dvojité asymetrické šošovky (LA2)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Materiál
Teleso: oceľový plech
Šošovky: PMMA
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Príslušenstvo
Komponenty pre systém PRESTIGE
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C) - 42/60W
50,000 hodín/L80/B50 (ta 25°C) - 80W
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Suspendido o sobrepuesto
- específico para instalaciones continuas (MDS)
Sistema óptico
Lentes profunda (LDE)
Lentes de anchura (LWE)
Lentes de anchura extra (LEW)
Lentes asimétrico doble (LA2)
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Material
Cuerpo: lámina de acero
Lentes: PMMA
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Accesorios
Componentes para PRESTIGE sistema
Vida útil
50,000 horas/L80/B10 (ta 25°C) - 42/60W
50,000 horas/L80/B50 (ta 25°C) - 80W
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Apparecchi illuminanti a sospensione o a plafone
- per installazioni in linea (MDS)
Sistema ottico
Lenti profondo (LDE)
Lenti a livello (LWE)
Lenti a livello extra (LEW)
Lenti doppio asimmetriche (LA2)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: lamina d'acciaio
Lenti: PMMA
Finitura
Corpo: bianco RAL 9003 (W03)
Accessori
Componenti per il prestigio del sistema
Durata di vita
50,000 ore/L80/B10 (ta 25°C) - 42/60W
50,000 ore/L80/B50 (ta 25°C) - 80W
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

Установка
Подвесная или потолочная накладная
- рассчитанная на долговременную установку (MDS)
Оптическая система
Глубокие линзы (LDE)
Ширины линзы (LWE)
Экстра ширины линзы (LEW)
Двухместный асимметричный (LA2)
Электрическое оснащение
Электронный аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: листовая сталь
Линзы: PMMA
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Аксессуары
Компоненты для системы PRESTIGE
Срок службы
50,000 часов/L80/B10 (ta 25°C) - 42/60W
50,000 часов/L80/B50 (ta 25°C) - 80W
Температура окружающей среды
От -20 °C до +35 °C

Zubehör

RSE 02 – Aufhängung mit Stromkabel

Ein einstellbares Stahlseil zum Abhängen der Montageschienen zusammen mit einem 3-, 5- oder 9-poligen Kabel mit Leiterquerschnitt 1,5 mm² oder 2,5 mm² für den Netzanschluss. Kabel werden standardmäßig mit einer Länge von 1.000 mm geliefert. Andere Längen auf Anfrage verfügbar.

RS 02 – Aufhängung

Ein einstellbares Stahlseil mit Querschnitt 1,5 mm zum Abhängen der Montageschienen. Wird standardmäßig mit einer Länge von 1.000 mm geliefert. Andere Längen auf Anfrage verfügbar.

CHS – Kettenabhängung

Eine Kette zum Abhängen von Montageschienen. Wird standardmäßig mit einer Länge von 800 mm geliefert. Andere Längen auf Anfrage verfügbar.

CHP 02 – Kettenhalterung

Montagehalterung für Abhängeketten

SB 02 T24 – Halterung für Deckenmontage

Eine schnell installierbare Halterung zur Montage der Montageschienen an Decken mit T-Profilen (24 mm).

SB 02 T15 – Halterung für Deckenmontage

Eine schnell installierbare Halterung zur Montage der Montageschienen an Decken mit T-Profilen (15 mm).

SB 02 – Halterung für Deckenmontage

Eine schnell installierbare Halterung zur Montage der Montageschienen an der Decke.

MRE – Montageschienen-Endstück

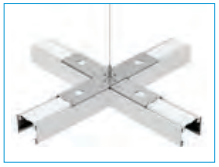
Eine flammwidrige ABS-Kunststoffabdeckung zum Abschluss der offenen Enden von Montageschienen. Endstücke sind nicht im Lieferumfang enthalten und müssen separat bestellt werden.

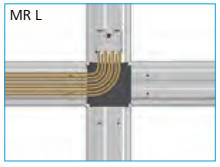
MRCP 02 – Montageschienen-Verbindungsstück

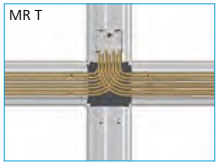
Ein Standardverbinder, der sowohl eine mechanische als auch eine elektrische Verbindung herstellt, wenn er in Montageschienen eingeführt wird.

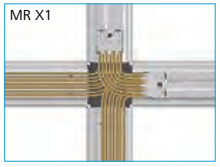
MR L/T/X1/X2 – kreuzförmiger Montageschienen-Verbinder

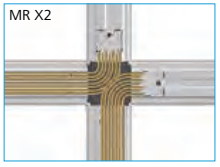
Ein kreuzförmiger Montageschienen-Verbinder, der sowohl eine mechanische als auch eine elektrische Verbindung herstellt, wenn er in Montageschienen eingeführt wird. Hergestellt aus verzinktem Stahlblech. Wird standardmäßig mit einer Kunststoffabdeckung und der erforderlichen Anzahl von Endstücken geliefert.











MR L II – L-förmiger Montageschienen-Eckverbinder

Ein L-förmiger Montageschienen-Eckverbinder, der sowohl eine mechanische als auch eine elektrische Verbindung herstellt, wenn er in Montageschienen eingeführt wird.

MR T II – T-förmiger Montageschienen-Verbinder

Ein T-förmiger Montageschienen-Verbinder, der sowohl eine mechanische als auch eine elektrische Verbindung herstellt, wenn er in Montageschienen eingeführt wird. Hergestellt aus verzinktem Stahlblech.

LED-Geräteaufnahme

Die Montageschiene kann mit einer Montageschienen-Abdeckung verschlossen werden, um Lücken zwischen den Geräteaufnahmen zu schließen. Die LED-Geräteaufnahme wird standardmäßig mit zwei eingebauten Klemmen direkt in der Montageschiene befestigt, was eine einfache Installation ohne zusätzliche Werkzeuge ermöglicht. Die Geräteaufnahmen werden aus kalandriertem Stahlblech gefertigt und mit weißem Polyesterharz beschichtet.

Der Verbinder an der Aufnahme für das Vorschaltgerät ermöglicht einen einfachen elektrischen Anschluss des LED-Geräts an der Montageschiene. Er ermöglicht außerdem die Phasenauswahl (5-, 7- und 9-polige Verbindung) durch entsprechende Positionierung eines beweglichen Kontakts. Für die Konfiguration des LED-Geräts (dimmen oder Notbeleuchtung) können beliebige unbelegte Kontakte verwendet werden.

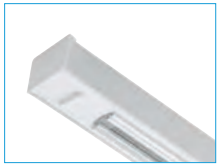
Die Montageschiene kann mit einer Montageschienen-Abdeckung verschlossen werden, um Lücken zwischen den Geräteaufnahmen zu schließen.

MR-ABDECKUNG DM-KUNSTSTOFF

MR-ABDECKUNG DM

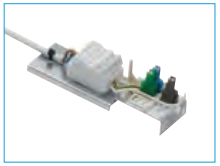
Schienen-Geräteaufnahme

Das ONETRACK-System kann zur Einbindung von Scheinwerfern mit PRESTIGE verbunden werden (Länge 683 mm ONETRACK).



Verbinder

Anpassbarer Verbinder auf einem Kabel von 1,5 m Länge.

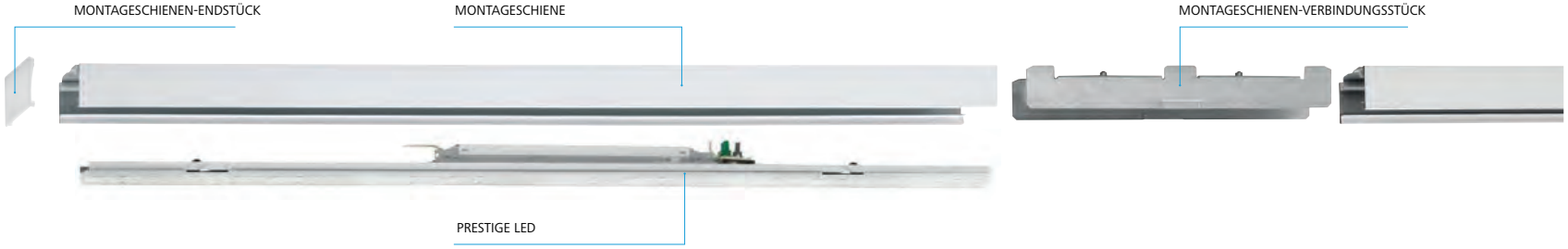


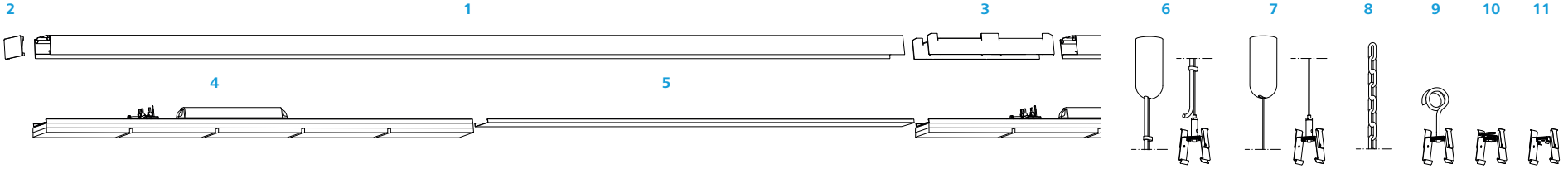
Zusatzgeräte

Eine Kombination mit Zusatzgeräten wie diverse Arten von Sensoren, Steckbuchsen, Kameras, WLAN, Sensoren für Verkehrsfluss und vieles mehr ist möglich.

TYP	BESTELLNUMMER					
	5 x 1,5 mm²	5 x 2,5 mm²	7 x 1,5 mm²	7 x 2,5 mm²	9 x 1,5 mm²	9 x 2,5 mm²
MR L	907023	907024	907025	907026	907027	907028
MR T	907029	907030	907031	907032	907033	907034
MR X1	907035	907036	907037	907038	907039	907040
MR X2	907041	907042	907043	907044	907045	907046
MR L II	907047	907048	907049	907050	907051	907052
MR T II	907053	907054	907055	907056	907057	907058

Zubehör



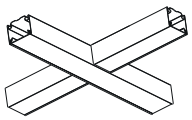


LÄNGE (m)	MONTAGESCHIENE MR II	MR III	ABHÄNGUNG ODER HALTERUNG	MONTAGESCHIENE VERBINDUNGSSTÜCK MRCP 02	MONTAGESCHIENE ENDSTÜCK MRE	MONTAGESCHIE-NEN-ABDECKUNG ODER PRESTIGE LED
2,97	1	-	2	-	1	2
4,45	-	1	2	-	1	3
5,94	2	-	3	1	1	4
7,42	1	1	4	1	1	5
8,90	-	2	4	1	1	6
10,39	2	1	5	2	1	7
11,87	1	2	6	2	1	8
13,35	-	3	6	2	1	9
14,84	2	2	7	3	1	10
16,32	1	3	8	3	1	11
17,80	-	4	8	3	1	12
19,29	2	3	9	4	1	13
20,77	1	4	10	4	1	14
22,26	-	5	10	4	1	15
23,74	2	4	11	5	1	16
25,22	1	5	11	5	1	17
26,71	-	6	12	5	1	18
28,19	2	5	13	6	1	19
29,67	1	6	13	6	1	20
31,16	-	7	14	6	1	21
32,64	2	6	15	7	1	22
34,13	1	7	15	7	1	23
35,61	-	8	16	7	1	24
37,09	2	7	17	8	1	25
38,58	1	8	17	8	1	26
40,06	-	9	18	8	1	27
41,54	2	8	19	9	1	28
43,03	1	9	19	9	1	29
44,51	-	10	20	9	1	30

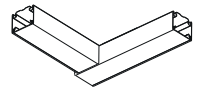
TYP	LÄNGE (mm)
MR I	1484
MR II	2968
MR III	4451
	ABMESSUNGEN (mm)
MR L/T/X1/X2	540 x 540
MR L II	315 x 304
MR T II	540 x 304

	BESCHREIBUNG	BEZEICHNUNG	BESTELLNUMMER
1	Montageschiene	MR I/MR II/MR III	siehe Seite 17
2	Montageschienen-Endstück (2 Stück im Set)	MRE	908001
3	Montageschienen-Verbindungsstück	MRCP 02	907001
4	PRESTIGE LED	PRESTIGE LED LS	siehe Seite 57
		PRESTIGE LED LSP	siehe Seite 59
		SMART-L	siehe Seite 61
		GHADA-L	siehe Seite 63
	Schienen-Geräteaufnahme	DM TRS 01-5 FIX	909001
		DM TRS 01-8 DALI	909002
5	Montageschienen-Abdeckung	MR COVER DM	908005
	Montageschienen-Kunststoffabdeckung	MR I COVER DM PLASTIC	908008
		MR II COVER DM PLASTIC	908006
		MR III COVER DM PLASTIC	908007
6	Stahlseil-Abhängung mit elektrischem Anschluss	RSE 02 5 x 1,5 mm²	908009
		RSE 02 5 x 2,5 mm²	908010
7	Stahlseil-Abhängung ohne elektrischen Anschluss	RS 02	908011
8	Kettenabhängung	CHS	908012
9	Kettenaufnahme	CHP 02	908004
10	Halterung für Deckenmontage	SB 02 T15	908013
		SB 02 T24	908014
11	Halterung für Deckenmontage	SB 02	908016
12	Kreuzförmiger Montageschienen-Verbinder	MR L	siehe Seite 19
		MR T	siehe Seite 19
		MR X1	siehe Seite 19
		MR X2	siehe Seite 19
13	L-förmiger Montageschienen-Eckverbinder	MR L II	siehe Seite 19
14	T-förmiger Montageschienen-Eckverbinder	MR T II	siehe Seite 19

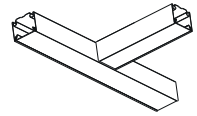
12

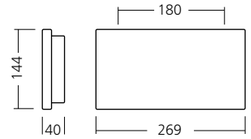


13

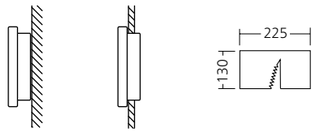


14





MOUNTING



LABELS

TYPE	NR. OF LED´S	POWER CONSUMPTION (W)	BATTERY Ni-Cd (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE D/M	MAINTENANCE UD/NM	EEC	WEIGHT (kg)	ORDER CODE
EMERGENCY 2982	14	2	3.6 / 2.5	1	235 / 128	•	•	A++ / A+ / A	0.6	916017
										Set for recessed installation 904006

D/M Maintained
UD/NM Nonmaintained

Emergency 2982

220-240V 50-60Hz | LED | ECG | EMERGENCY | IP 65 | d = 25 m VISIBILITY

EN

Mounting
Wall mounted
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Materials
Housing: polycarbonate + ABS
Diffuser: PMMA
Accessories
Emergency labels are standardly included in the package
Set for recessed installation

DE

Montage
Wandleuchte
Optisches System
Diffusor
Vorschaltgerät
Ni-Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Material
Körper: Polykarbonat + ABS
Diffusor: PMMA
Zubehör
Notlicht-Labels sind standardmässig in Verpackung inbegriffen
Set für die Einbaumontage

FR

Montage
Applique murale
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Matériels
Corps: polycarbonate + ABS
Diffuseur: PMMA
Accessoires
Étiquettes de secours sont inclus dans l'emballage
Ensemble pour l'installation encastrée

SK

Montáž
Montáž na stenu
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Materiál
Teleso: polykarbonát + ABS
Difúzor: PMMA
Príslušenstvo
Núdzové etikety sú štandardne zahrnuté v balíku
Sada pre vsadenú inštaláciu

ES

Montaje
Montaje en pared
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Material
Cuerpo: policarbonato + ABS
Difusor: PMMA
Accesorios
Rótulos de emergencia están incluidos de forma estándar en el embalaje
Conjunto para la instalación empotrada

IT

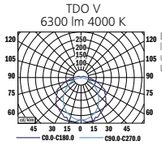
Installazione
A parete
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Materiali
Corpo: policarbonato + ABS
Diffusore: PMMA
Accessori
Etichette per apparecchi d'emergenza sono già compresi nella confezione
Set per l'installazione ad incasso

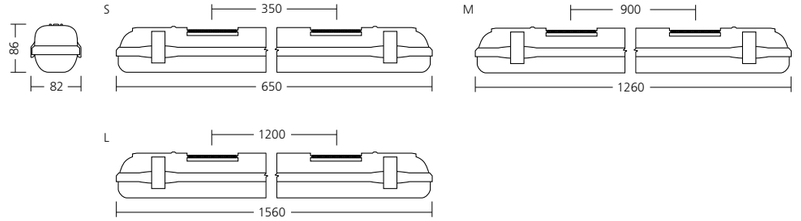
RU

Установка
Настенная
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарейка (Защита батарейки от перегрузки и разрядки)
LED индикатор зарядки
Материал
Корпус: поликарбонат + ABS
Рассеиватель: PMMA
Аксессуары
Наклейки аварийных выходов включены в стандартный комплект
Набор для скрытой установки

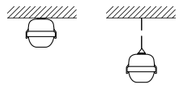
TDO V
OPAL
LED

PHOTOMETRY





MOUNTING



RS-S 20 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)

TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE
TDO V S	3350	25	134	80+	4000	130°, 100°	1.3	218001
TDO V M	4500	31	145	80+	4000	130°, 100°	2.3	218002
TDO V M	6300	46	137	80+	4000	130°, 100°	2.3	218003
TDO V L	6500	44	148	80+	4000	130°, 100°	2.8	218004
TDO V L	9600	69	139	80+	4000	130°, 100°	2.8	218005

Luminous flux tolerance +/- 10%

Rope suspension RS-S 20 L150 SQ	903020
Rope suspension RS-S 20 L150 RD	903008

Tdo V

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · IP65 · IK10

EN

Mounting
Surfaced/Suspended (S/S)
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: grey injected polycarbonate
Clips: polycarbonate
Diffuser: polycarbonate
Accessories
Rope suspension RS-S 20
Service lifetime
100,000 hours/L90/B20 (at 25°C) - 25/31W
100,000 hours/L90/B50 (at 25°C) - 44/46W
80,000 hours/L90/B50 (at 25°C) - 69W
Ambient temperature
From -25 °C to +30°C (44/69W)
From -25 °C to +35°C (44/69W)
From -25 °C to +40°C (31W)

DE

Montage
Deckenleuchte/Hängend (S/S)
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: grau Spritzguss-Polykarbonat
Clips: Polykarbonat
Diffusor: Polykarbonat
Zubehör
Seilaufhängung RS-S 20
Lebensdauer
100,000 Stunden/L90/B20 (at 25°C) - 25/31W
100,000 Stunden/L90/B50 (at 25°C) - 44/46W
80,000 Stunden/L90/B50 (at 25°C) - 69W
Umgebungstemperatur
Von -25 °C bis +30°C (44/69W)
Von -25 °C bis +35°C (44/69W)
Von -25 °C bis +40°C (31W)

FR

Montage
Plafonnier apparent/Suspendu (S/S)
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: polycarbonate gris injecté
Barrette: polycarbonate
Diffuseur: polycarbonate
Accessoires
Câble de suspension RS-S 20
Durée de vie utile
100,000 heures/L90/B20 (at 25°C) - 25/31W
100,000 heures/L90/B50 (at 25°C) - 44/46W
80,000 heures/L90/B50 (at 25°C) - 69W
Température ambiante
De -25 °C à +30°C (44/69W)
De -25 °C à +35°C (44/69W)
De -25 °C à +40°C (31W)

SK

Montáž
Prisadené/Závesné (S/S)
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: vstrekovaný šedý polykarbonát
Držiaky: polykarbonát
Difúzor: polykarbonát
Príslušenstvo
Lankový záves RS-S 20
Servisná životnosť
100,000 hodín/L90/B20 (at 25°C) - 25/31W
100,000 hodín/L90/B50 (at 25°C) - 44/46W
80,000 hodín/L90/B50 (at 25°C) - 69W
Teplota okolia
Od -25 °C do +30°C (44/69W)
Od -25 °C do +35°C (44/69W)
Od -25 °C do +40°C (31W)

ES

Montaje
Sobrepuestas en el techo/Suspendidas (S/S)
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: policarbonato gris inyectado
Enganches: policarbonato
Difusor: policarbonato
Accesorios
Cable de suspensión RS-S 20
Vida útil
100,000 horas/L90/B20 (at 25°C) - 25/31W
100,000 horas/L90/B50 (at 25°C) - 44/46W
80,000 horas/L90/B50 (at 25°C) - 69W
Temperatura ambiente
Desde -25 °C a +30°C (44/69W)
Desde -25 °C a +35°C (44/69W)
Desde -25 °C a +40°C (31W)

IT

Installazione
A plafone/A sospensione(S/S)
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: policarbonato grigio a iniezione
Clip: policarbonato
Diffusore: policarbonato
Accessori
Cavo di sospensione RS-S 20
Durata di vita
100,000 ore/L90/B20 (at 25°C) - 25/31W
100,000 ore/L90/B50 (at 25°C) - 44/46W
80,000 ore/L90/B50 (at 25°C) - 69W
Temperatura d'ambiente
Da -25 °C a +30°C (44/69W)
Da -25 °C a +35°C (44/69W)
Da -25 °C a +40°C (31W)

RU

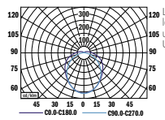
Установка
Потолочная накладная/Подвесная (S/S)
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: инжектированный серый поликарбонат
Зажимы: поликарбонат
Рассеиватель: поликарбонат
Аксессуары
Тросовый подвес RS-S 20
Срок службы
100,000 часов/L90/B20 (at 25°C) - 25/31W
100,000 часов/L90/B50 (at 25°C) - 44/46W
80,000 часов/L90/B50 (at 25°C) - 69W
Температура окружающей среды
От -25 °C до +30°C (44/69W)
От -25 °C до +35°C (44/69W)
От -25 °C до +40°C (31W)

LICHTGRAF · 5 YEARS WARRANTY · MAINTENANCE FREE · ECO FRIENDLY · ENERGY SAVING · UV/IR · EEC A++/A+/A

TDO
OPAL
LED

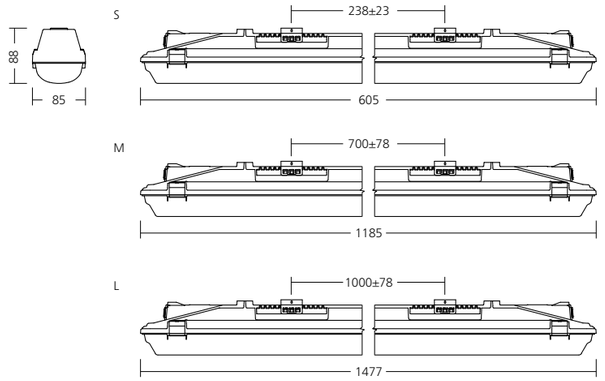
Tdo BSC

PHOTOMETRY

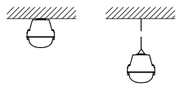


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR > 28

TDO BSC S
3100 lm 4000 K



MOUNTING



S

RS-S 20 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE
TDO BSC S	2700	23	117	80+	4000	130°, 100°	1.2	213001
TDO BSC M	3000	25	120	80+	4000	130°, 100°	2.0	213002
TDO BSC M	4700	36	130	80+	4000	130°, 100°	2.0	213003
TDO BSC L	3900	29	134	80+	4000	130°, 100°	2.2	213004
TDO BSC L	6200	50	124	80+	4000	130°, 100°	2.2	213005

Luminous flux tolerance +/- 10%.

Rope suspension RS-S 20 L150 SQ	903020
Rope suspension RS-S 20 L150 RD	903008

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · IP66

EN

Mounting
Surfaced/Suspended (S/S)
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: glass fibre reinforced polyester (GRP)
Diffuser: polycarbonate
Clips: stainless steel (INOX)
Accessories
Rope suspension RS-S 20
Service lifetime
50,000 hours/L70/B50 (at 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte/Hängend (S/S)
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: glasfaserverstärktes Polyester (GRP)
Diffusor: Polykarbonat
Clips: rostfreier Stahl (INOX)
Zubehör
Seilaufhängung RS-S 20
Lebensdauer
50,000 Stunden/L70/B50 (at 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent/Suspendu (S/S)
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: polyester renforcé de fibres de verre (GRP)
Diffuseur: polycarbonate
Barrette: tôle d'acier (INOX)
Accessoires
Câble de suspension RS-S 20
Durée de vie utile
50,000 Stunden/L70/B50 (at 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené/Závesné (S/S)
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Materiál
Teleso: polyester vystužený sklenеným vláknom (GRP)
Difúzor: polykarbonát
Držiaky: nerezová oceľ (INOX)
Príslušenstvo
Lankový záves RS-S 20
Servisná životnosť
50,000 hodín/L70/B50 (at 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo/Suspendidas (S/S)
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electronico FIX (ECG)
Material
Cuerpo: poliéster reforzado con fibra de vidrio (GRP)
Difusor: policarbonato
Enganches: acero Inoxidable (INOX)
Accesorios
Cable de suspensión RS-S 20
Vida útil
50,000 horas/L70/B50 (at 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
A plafone/A sospensione(S/S)
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: poliestere rinforzato con fibra di vetro (GRP)
Diffusore: policarbonato
Clip: acciaio inossidabile (INOX)
Accessori
Cavo di sospensione RS-S 20
Durata di vita
50,000 ore/L70/B50 (at 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

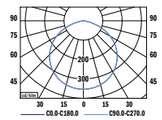
RU

Установка
Потолочная накладная/Подвесная (S/S)
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: армированный стекловолокном полиэфир (GRP)
Рассеиватель: поликарбонат
Зажимы: нержавеющая сталь (INOX)
Аксессуары
Тросовый подвес RS-S 20
Срок службы
50,000 часов/L70/B50 (at 25°C)
Температура окружающей среды
От -20 °C до +35 °C

LICHTGRAF · 3 YEARS WARRANTY · MAINTENANCE FREE · ECO FRIENDLY · ENERGY SAVING · UV/IR · EEC A++/A+/A

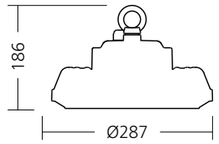
PARIDA
TRANSPARENT
LED

PHOTOMETRY

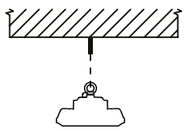


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR > 28

PARIDA ECO
11,100 lm 4000 K



MOUNTING



CHS 67 L100

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)	ORDER CODE
PARIDA ECO	11,100	100	111	80+	4000	112°	4.1	222009
PARIDA ECO	13,350	120	111	80+	4000	112°	4.1	222010
PARIDA ECO	16,300	150	109	80+	4000	112°	4.1	222011
PARIDA ECO	22,400	200	112	80+	4000	112°	4.5	222012

Luminous flux tolerance +/- 10%

Chain suspension CHS 67 L100	903038

Parida Eco

220-240V 50-60Hz · LED · CRI 80+ Ra · CCT 4000 K · ECG · IP65 · IK08

EN

Mounting
Suspended (SSD)
Optical system
Transparent diffuser (TRD)
Wiring
Electronic control gear FIX (ECG)
External lead-in flexible cable
Materials
Housing: die cast aluminium
Cover: hardened glass
Accessories
Chain suspension CHS 67
Service lifetime
50,000 hours/L80/B50 (ta 25°C)
Ambient temperature
From -30 °C to +35 °C

DE

Montage
Hängend (SSD)
Optisches System
Durchsichtiger Diffusor (TRD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: gehärteter Glas
Zubehör
Kettenaufhängung CHS 67
Lebensdauer
50,000 Stunden/L80/B50 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +35 °C

FR

Montage
Suspendu (SSD)
Système optique
Diffuseur transparente (TRD)
Équipement électrique
Ballast électronique FIX (ECG)
Artére externe
Matériels
Corps: aluminium moulé sous pression
Couvercle: verre trempé
Accessoires
Suspension de chaîne CHS 67
Durée de vie utile
50,000 heures/L80/B50 (ta 25°C)
Température ambiante
De -30 °C à +35 °C

SK

Montáž
Závesné (SSD)
Optický systém
Transparentný difúzor (TRD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Prívodný napájací kábel
Materiál
Teleso: hliníkový odliatok
Kryt: tvrdené sklo
Príslušenstvo
Reťazový záves CHS 67
Servisná životnosť
50,000 hodín/L80/B50 (ta 25°C)
Teplota okolia
Od -30 °C do +35 °C

ES

Montaje
Suspendidas (SSD)
Sistema óptico
Difusor transparente (TRD)
Cableado
Equipo de control electronico FIX (ECG)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido
Accesorios
Cadena de suspensión CHS 67
Vida útil
50,000 horas/L80/B50 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +35 °C

IT

Installazione
A sospensione (SSD)
Sistema ottico
Diffusore transparente (TRD)
Cablaggio
Ballast elettronico FIX (ECG)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato
Accessori
Catena di sospensione CHS 67
Durata di vita
50,000 ore/L80/B50 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +35 °C

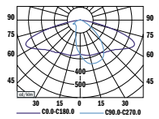
RU

Установка
Подвесная (SSD)
Оптическая система
Чистый рассеиватель (TRD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Внешний свинца в гибком кабеле
Материал
Корпус: литой алюминий
Крышка: закаленное стекло
Аксессуары
Цепной подвес CHS 67
Срок службы
50,000 часов/L80/B50 (ta 25°C)
Температура окружающей среды
От -30 °C до +35 °C

NEW

SAGAR
LENSES
LED

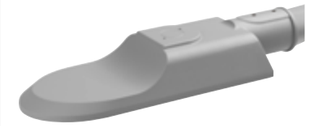
PHOTOMETRY



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%

SAGAR
6200 lm 4000 K

MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25°) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m^2)	WEIGHT (kg)	RECOMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD	ORDER CODE
SAGAR	2500	20	125	70+	4000	0.036/0.012	2.3	5-8	HPS 70 W	808001
SAGAR	3700	30	123	70+	4000	0.036/0.012	2.3	5-8	HPS 70 W	808002
SAGAR	6200	50	124	70+	4000	0.036/0.012	2.5	7-10	HPS 100 W	808003

Luminous flux tolerance +/- 10%

Sagar

220÷240V 50÷60Hz | LED | CRI 70+ Ra | CCT 4000 K | ECG | IP 66 | IK 08

EN

Mounting
Pole-side entry installation (PMT)
Optical system
Lenses
Wiring
Electronic control gear FIX (ECG)
External lead-in flexible cable
Materials
Housing: die-cast aluminium
Cover: polycarbonate
Surface finish
Housing: grey RAL 9006 (G06)
Service lifetime
50,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -30 °C to +45 °C

DE

Montage
Seitenansatz-Installation (PMT)
Optisches System
Linsen
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: Polykarbonat
Oberflächenveredelung
Körper: grau RAL 9006 (G06)
Lebensdauer
50,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +45 °C

FR

Montage
Installation d´entrée latérale (PMT)
Système optique
Lentilles
Équipement électrique
Ballast électronique FIX (ECG)
Artére externe
Matériels
Corps: aluminium moulé sous pression
Couvercle: polycarbonate
Finition de surface
Corps: gris RAL 9006 (G06)
Durée de vie utile
50,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -30 °C à +45 °C

SK

Montáž
Montáž zo strany (PMT)
Optický systém
Šošovky
Elektrická výbava
Elektronický predradník FIX (ECG)
Prívodný napájací kábel
Materiál
Teleso: hliníkový odliatok
Kryt: polykarbonát
Povrchová úprava
Teleso: šedá RAL 9006 (G06)
Servisná životnosť
50,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -30 °C do +45 °C

ES

Montaje
Instalación de acceso lateral (PMT)
Sistema óptico
Lentes
Cableado
Equipo de control electronico FIX (ECG)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: policarbonato
Tratamiento de la superficie
Cuerpo: gris RAL 9006 (G06)
Vida útil
50,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +45 °C

IT

Installazione
Installazione ingresso laterale (PMT)
Sistema ottico
Lenti
Cablaggio
Ballast elettronico FIX (ECG)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: policarbonato
Finitura
Corpo: grigio RAL 9006 (G06)
Durata di vita
50,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +45 °C

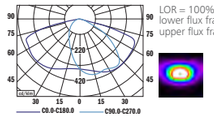
RU

Установка
Установка со стороны входа (PMT)
Оптическая система
Линзы
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Внешний свинца в гибком кабеле
Материал
Корпус: литой алюминий
Крышка: поликарбонат
Отделка поверхности
Корпус: серый RAL 9006 (G06)
Срок службы
50,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -30 °C до +45 °C

KEATON
LENSES
LED

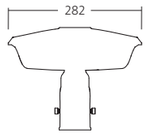
Keaton S

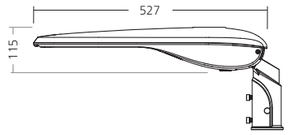
PHOTOMETRY



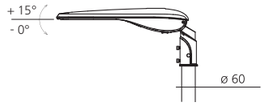
LOR = 100%
lower flux fraction 100%
upper flux fraction 0%

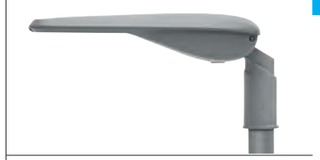
KEATON S R01
3450 lm 4000 K



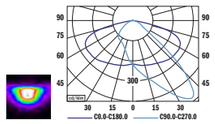


MOUNTING

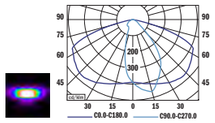




R02



R03



TYPE	NET LUMEN OUTPUT (at Ta = 25°) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m^2)	WEIGHT (kg)	RECOMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD	ORDER CODE ECG	ORDER CODE EDA
KEATON S	3450	30	115	70+	4000	0.032/0.141	5.0	5-8	HPS 70 W	805002	805015
KEATON S	4450	35	127	70+	4000	0.032/0.141	5.0	5-8	HPS 70 W	805003	805016
KEATON S	5900	50	118	70+	4000	0.032/0.141	5.5	7-10	HPS 100 W	805001	805017

Luminous flux tolerance +/- 10%

220-240V 50-60Hz · LED · CRI 70+ Ra · CCT 4000 K · ECG · EDA DALI · IP 66 · IK 09

EN

Mounting
Pole-top/side entry installation (PMT)
Optical system
Lenses (R01)
On request: R02, R03
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
External lead-in flexible cable
Materials
Housing: die-cast aluminium
Cover: transparent hardened glass
Tiltable spigot: die cast aluminium
Surface finish
Housing: grey RAL 9006 (G06)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -30 °C to +40 °C

DE

Montage
Aufsatz- /Seitenansatz-Installation (PMT)
Optisches System
Linsen (R01)
Auf Anfrage: R02, R03
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: durchsichtig gehärteter Glas
Schwenkbarer Zapfen: Aluminiumdruckguss
Oberflächenveredelung
Körper: grau RAL 9006 (G06)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +40 °C

FR

Montage
Installation supérieur du pôle/d´entrée latérale (PMT)
Système optique
Lentilles (R01)
Sur demande: R02, R03
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Artére externe
Matériels
Corps: aluminium moulé sous pression
Couvercle: verre trempé tvrdené sklo
Ergot inclinable: aluminium moulé sous pression
Finition de surface
Corps: gris RAL 9006 (G06)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -30 °C à +40 °C

SK

Montáž
Montáž na stĺp/zo strany (PMT)
Optický systém
Šošovky (R01)
Na požiadanie: R02, R03
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Prívodný napájací kábel
Materiál
Teleso: hliníkový odliatok
Kryt: transparentné tvrdené sklo
Sklopný nástavec: hliníkový odliatok
Povrchová úprava
Teleso: šedá RAL 9006 (G06)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -30 °C do +40 °C

ES

Montaje
Instalación en poste superior/de acceso lateral (PMT)
Sistema óptico
Lentes (R01)
A petición: R02, R03
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido transparente
Espiga inclinable: aluminio moldeado
Tratamiento de la superficie
Cuerpo: gris RAL 9006 (G06)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +40 °C

IT

Installazione
Installazione testa palo/ingresso laterale (PMT)
Sistema ottico
Lenti (R01)
Su richiesta: R02, R03
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato trasparente
Perno inclinabile: pressofusione di alluminio
Finitura
Corpo: grigio RAL 9006 (G06)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +40 °C

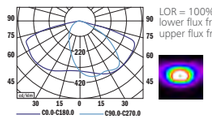
RU

Установка
Установка на верхушке мачты / со стороны входа (PMT)
Оптическая система
Линзы (R01)
По запросу: R02, R03
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Внешний свинца в гибком кабеле
Материал
Корпус: литой алюминий
Крышка: чистое закаленное стекло
Поворотный патрубок: литой алюминий
Отделка поверхности
Корпус: серый RAL 9006 (G06)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -30 °C до +40 °C

KEATON
LENSES
LED

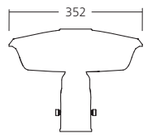
Keaton M

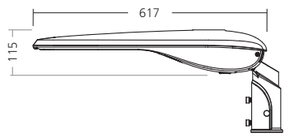
PHOTOMETRY



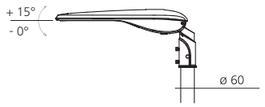
LOR = 100%
lower flux fraction 100%
upper flux fraction 0%

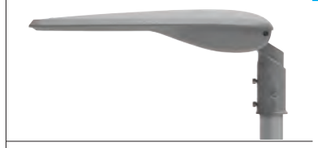
KEATON M R01
14,000 lm 4000 K



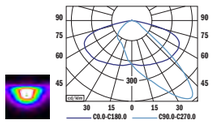


MOUNTING

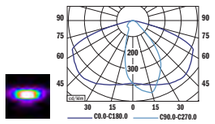




R02



R03



TYPE	NET LUMEN OUTPUT (at Ta = 25°) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m^2)	WEIGHT (kg)	RECOMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD	ORDER CODE ECG	ORDER CODE EDA
KEATON M	9300	77	121	70+	4000	0.035/0.179	9.0	7-10	HPS 100 W	805007	805008
KEATON M	10,400	88	118	70+	4000	0.035/0.179	9.2	8-12	HPS 150 W	805006	805009
KEATON M	14,000	125	112	70+	4000	0.035/0.179	9.2	8-12	HPS 250 W	805004	805005

Luminous flux tolerance +/- 10%

220-240V 50-60Hz · LED · CRI 70+ Ra · CCT 4000 K · ECG · EDA DALI · IP 66 · IK 09

EN

Mounting
Pole-top/side entry installation (PMT)
Optical system
Lenses (R01)
On request: R02, R03
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
External lead-in flexible cable
Materials
Housing: die-cast aluminium
Cover: transparent hardened glass
Tiltable spigot: die cast aluminium
Surface finish
Housing: grey RAL 9006 (G06)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -30 °C to +40 °C

DE

Montage
Aufsatz- /Seitenansatz-Installation (PMT)
Optisches System
Linsen (R01)
Auf Anfrage: R02, R03
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: durchsichtig gehärteter Glas
Schwenkbarer Zapfen: Aluminiumdruckguss
Oberflächenveredelung
Körper: grau RAL 9006 (G06)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +40 °C

FR

Montage
Installation supérieur du pôle/d´entrée latérale (PMT)
Système optique
Lentilles (R01)
Sur demande: R02, R03
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Artére externe
Matériels
Corps: aluminium moulé sous pression
Couvercle: verre trempé transparente
Ergot inclinable: aluminium moulé sous pression
Finition de surface
Corps: gris RAL 9006 (G06)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -30 °C à +40 °C

SK

Montáž
Montáž na stĺp/zo strany (PMT)
Optický systém
Šošovky (R01)
Na požiadanie: R02, R03
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Prívodný napájací kábel
Materiál
Teleso: hliníkový odliatok
Kryt: transparentné tvrdené sklo
Sklopný nástavec: hliníkový odliatok
Povrchová úprava
Teleso: šedá RAL 9006 (G06)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -30 °C do +40 °C

ES

Montaje
Instalación en poste superior/de acceso lateral (PMT)
Sistema óptico
Lentes (R01)
A petición: R02, R03
Cableado
Equipo de control electronico FIX/DALI (ECG/EDA)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido transparente
Espiga inclinable: aluminio moldeado
Tratamiento de la superficie
Cuerpo: gris RAL 9006 (G06)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +40 °C

IT

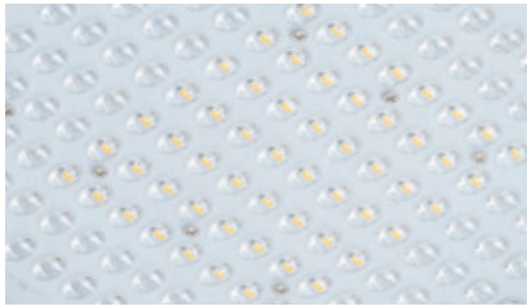
Installazione
Installazione testa palo/ingresso laterale (PMT)
Sistema ottico
Lenti (R01)
Su richiesta: R02, R03
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato trasparente
Perno inclinabile: pressofusione di alluminio
Finitura
Corpo: grigio RAL 9006 (G06)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +40 °C

RU

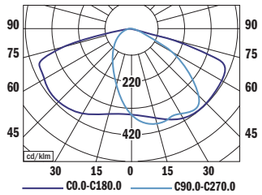
Установка
Установка на верхушке мачты / со стороны входа (PMT)
Оптическая система
Линзы (R01)
По запросу: R02, R03
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Внешний свинца в гибком кабеле
Материал
Корпус: литой алюминий
Крышка: чистое закаленное стекло
Поворотный патрубок: литой алюминий
Отделка поверхности
Корпус: серый RAL 9006 (G06)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -30 °C до +40 °C

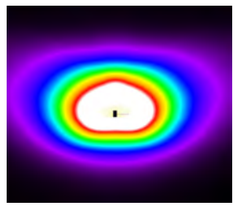
OPTIC
LENSES

Low-glare lens optics that deliver any of 3 different LIDCs means there is a KEATON for any roads application.

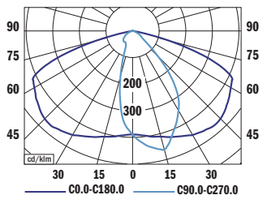


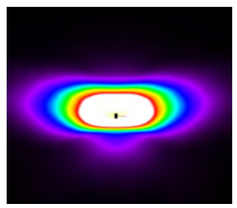
R01
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



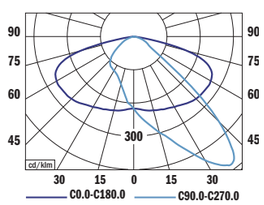


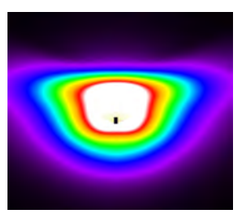
R03
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.





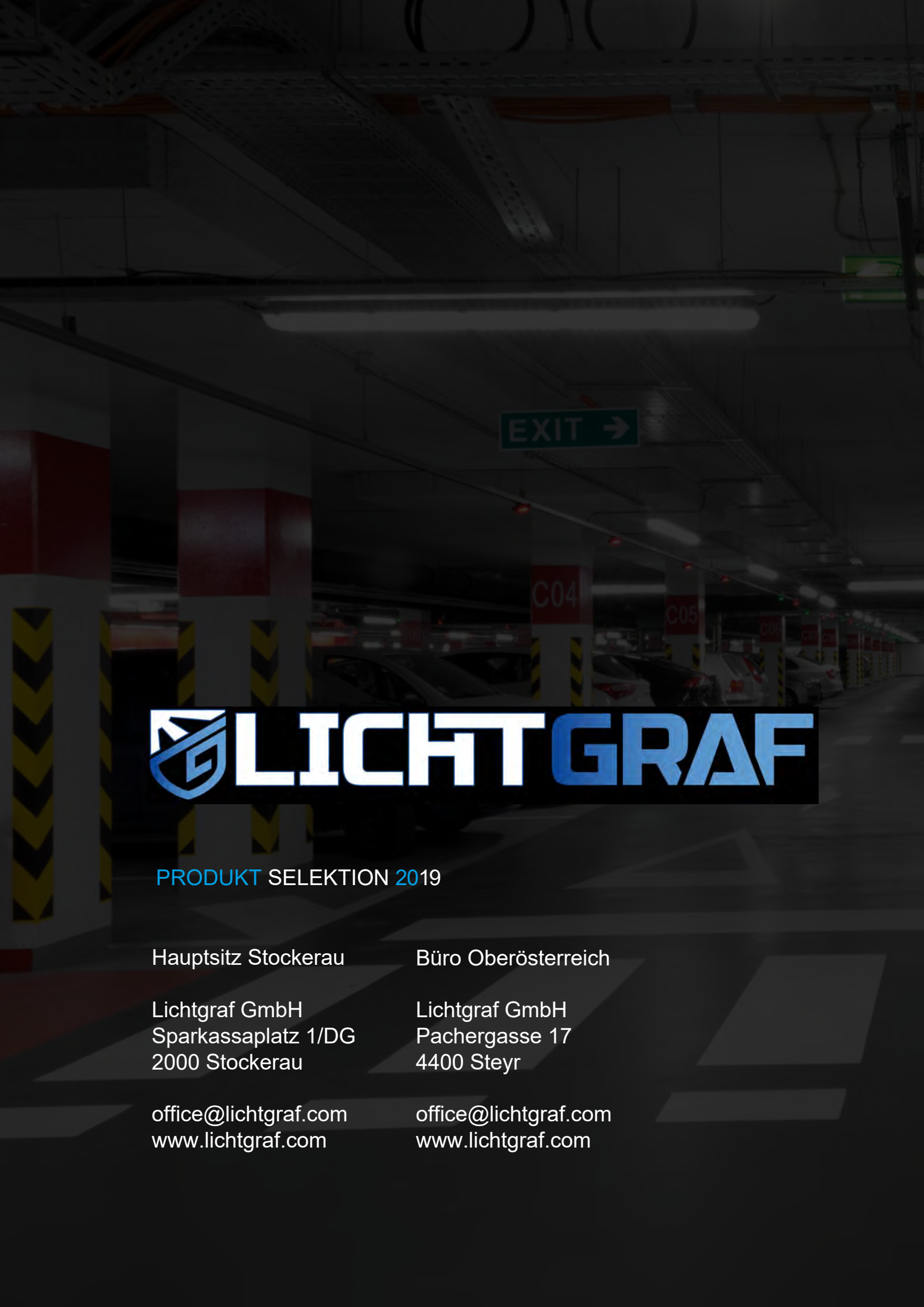
R02
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.





Optical system has been carefully designed by experienced optical engineers to ensure its suitability for areas where glare control is important according to Luminous Intensity Classification EN 13201-1 Appendix A1.

LICHTGRAF



LICHTGRAF

PRODUKT SELEKTION 2019

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