LS853LED Inground

















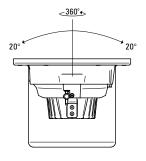
The LS853LED is a full featured, shallow depth inground luminaire featuring lumen output and efficacy exceeding metal halide. As an inherently protected luminaire it can be used in interior spaces and immediately adjacent to combustible materials (such as wood decking or similar). In addition, internal rotation and tilt adjustability ensures the most efficient light delivery can be set according to site conditions.

Specifications

Source	16 W or 20 W LED □ White (4 000 K typical) ■ Warm white (3 000 K typical) ■ Blue (470 nm) Other colors by request ■ RGB (20 W LED only)
Lumen Maintenance (L70)	>60,000 hrs Limited by TM-21 x6 rule
Control Options	PWM
	(0-10 V \rightarrow PWM and DMX \rightarrow PWM conversion available)
IP Rating	IP68
Construction	316 marine grade stainless steel
Installation Types	Pre-Installation Blockout Concrete pour, drive-over & general use applications
	Pre-Installation Collar Decks & grates
	Direct Burial Landscapes, planters & special applications (consult factory)
Drive-over	With OptiClear™ lens and pre-installation blockout (LS6052-K)
Drive-over Static Load Rating	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout
Static Load Rating	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout (Load applied to center of glass across a 2" (50 mm) dia. area,
	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout
Static Load Rating	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout (Load applied to center of glass across a 2" (50 mm) dia. area,
Static Load Rating Impact Rating	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout (Load applied to center of glass across a 2" (50 mm) dia. area, IK10 with OptiClear™ lens
Static Load Rating Impact Rating	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout (Load applied to center of glass across a 2" (50 mm) dia. area, IK10 with OptiClear™ lens Teflon coated cover screws
Static Load Rating Impact Rating Standard Inclusions Ambient Operating	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear™ lens and pre-installation blockout (Load applied to center of glass across a 2" (50 mm) dia. area, IK10 with OptiClear™ lens Teflon coated cover screws MicroAntiLeach™ cable entry
Static Load Rating Impact Rating Standard Inclusions Ambient Operating Temperature	blockout (LS6052-K) 9 259 lb (4 200 kg) with OptiClear [™] lens and pre-installation blockout (Load applied to center of glass across a 2" (50 mm) dia. area, IK10 with OptiClear [™] lens Teflon coated cover screws MicroAntiLeach [™] cable entry -4°F to 122°F (-20°C to 50°C)



LS853LED with round flush cover



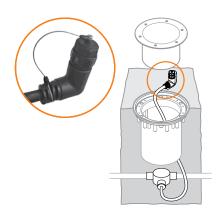
Why Use LS6052-K-87 Pre-Installation Blockout?

The LS6052-K-87 acts as a blockout, and is intended for installation before the luminaire, however it has other special functions. To simplify the installation, every LS6052-K-87 is supplied complete with a 3-way junction box, inside which the installer can make all necessary connections, and allows the completion of all wiring even before the luminaire arrives on site. This method also ensures the luminaire itself is not damaged during concreting or other site works. **Note: The junction box remains serviceable after installation.** To complete the installation, Lumascape provides an IP68 connector, enabling a tool-free final connection from the luminaire to the branch circuit. In addition, this connector is readily detachable, allowing for off-site maintenance.

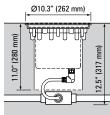
Why Use LS6052-K-84 Pre-Installation Blockout?

The LS6052-K-84 pre-installation kit (order separately) is ideal for use in applications where maximum flexibility for the type and location of branch circuit connections are required or where exact site conditions may be unknown. The LS6052-K-84 is also for use with all applications requiring a color changing or dimmable lighting scheme. For use with the LS6052-K-84, Lumascape provides the LS853LED complete with 3 m of factory-installed cable with MicroAntiLeach™ seal. This provides the installer with greater flexibility to determine the type and location of the branch circuit connection. This option is also 100% hard-wired and does not feature the IP68 detachable couplings for off-site maintenance. All aspects of the luminaire itself are still field serviceable.

Connection Type '87' for LS6052-K-87 Pre-Installation Blockout







Pre-Install & Luminaire

IP68 Connector & Junction Box

The luminaire is fitted with an IP68 connector, which attaches directly to the cable supplied with LS6052-K-87, without the use of any tools. The cable is 1 m in length, and is factory assembled with a 3-way junction box – **Remains field serviceable after installation**.

Not suitable for color changing or dimmable applications.

Lens Options



OptiClear™ Glass

Glass of very high optical purity and load strength. Suitable for walk-over and drive-over applications.



GripGlass™

OptiClear™ glass with slip reduction glazing process. Suitable for walk-over and drive-over applications.

Connection Type '84' for LS6052-K-84 Pre-Installation Blockout



MicroAntiLeach™ Cable

For connection to the branch circuit via junction box (by others) or other approved method.

3 m length. For other length options, consult factory.

Connection Type '84' for LS640-2 Pre-Installation Collar



MicroAntiLeach™ Cable

For connection to the branch circuit via junction box (by others) or other approved method.

3 m length. For other length options, consult factory.

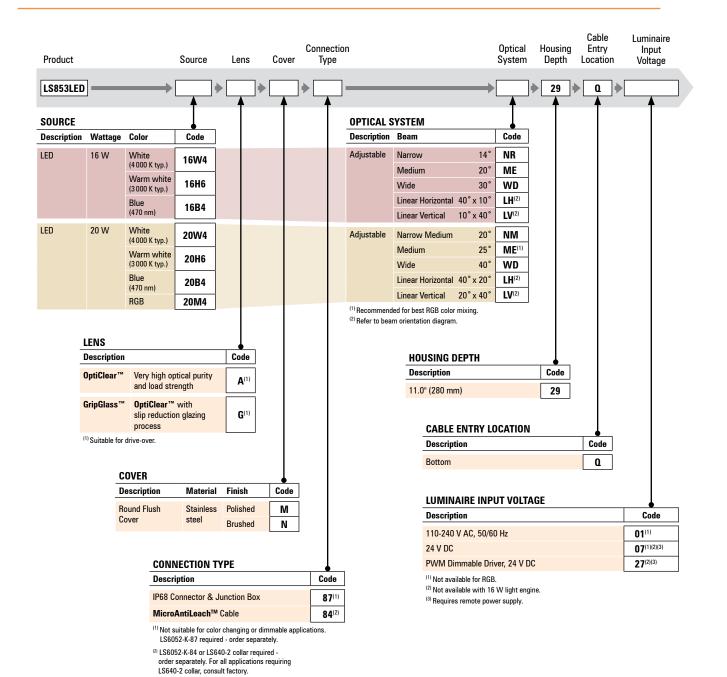
Flush Cover Options

Flush covers for pre-installation use special seals and support bushes to ensure static loads up to 9259 lb (4200 kg) are properly supported. In order to achieve this drive-over rating, **OptiClear**™ or **GripGlass**™ must be used.

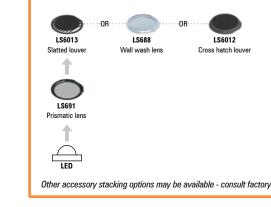


Pre-Installation Blockout Round Flush Cover

■ SS316: Polished ■ SS316: Brushed



Beam Orientations Beam Orientation for the "LV" optical system Beam Orientation for the "LH" optical system



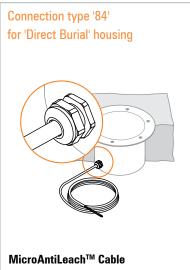
Stacking and order of accessories

Why Use Direct Burial?

Direct burial installation is ideal for landscaping areas or for special applications where depth is restricted. This type of installation also allows for maximum heat dissipation. The 316 grade Stainless Steel construction of the luminaire performs flawlessly in alkaline and acidic soil types, and is also rated for use in concrete pour applications. **Note: This installation type has no option for a pre-installation blockout.**

Lumascape provides the LS853LED complete with 3 m of factory installed cable, supplied complete with **MicroAntiLeach™** seal. This provides the installer with greater flexibility to determine the location of the electrical connection. This connection is also 100% hard-wired. All aspects of the luminaire itself remain field serviceable.

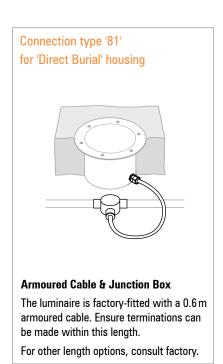
Consult factory for application advice prior to using this configuration.

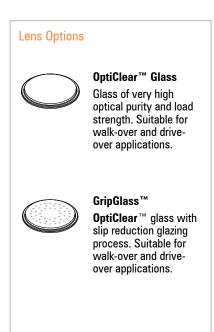


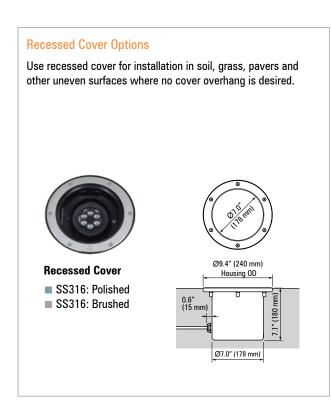
For connections to the branch circuit via junction box (by others) or other approved

For other length options, consult factory.

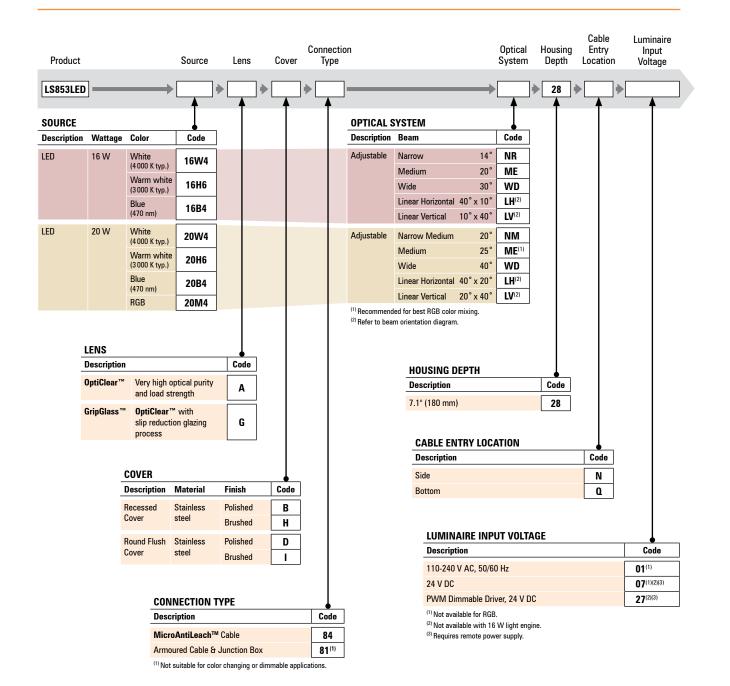
method. 3 m length.



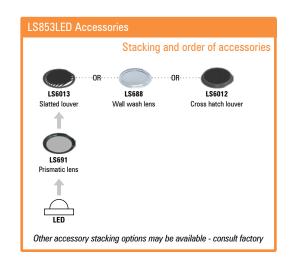








Beam Orientations Beam Orientation for the "LV" optical system Beam Orientation for the "LH" optical system



Photometrics

Photometric data is based on test results from a NIST traceable testing lab. IES data is available at www.lumascape.com. Note: No depreciation factor is applied to the data shown.

Polar Candela Distribution

Illuminance at a Distance

LS853LED 4 000 K 14° Beam Angle

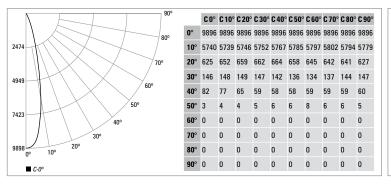
Power Input	18.0 W
Lumens	1314 lm
Efficacy	73 lm/W

90°		C O°	C 10°	C 20°	C 30°	C 40°	C 50°	C 60°	C 70°	C 80°	C 90°
80°	0°	16111	16111	16111	16111	16111	16111	16111	16111	16111	16111
4047	10°	4233	4176	4088	4037	3983	3923	3890	3847	3825	3776
700	20°	320	308	294	286	281	281	282	284	281	278
3093	30°	55	54	53	52	52	53	53	53	51	50
600	40°	13	12	12	12	11	11	11	11	11	11
50°	50°	0	0	0	1	0	0	0	0	0	0
2140 40°	60°	0	0	0	0	0	0	0	0	0	0
30°	70°	0	0	0	0	0	0	0	0	0	0
6187 20° 10°	80°	0	0	0	0	0	0	0	0	0	0
■ G-0°	90°	0	0	0	0	0	0	0	0	0	0

m	Center Beam Ix	Beam Ø
2	4039	0.5 m
5	646	1.2 m
10	162	2.5 m
12	112	2.9 m
15	72	3.7 m

LS853LED 4 000 K 20° Beam Angle

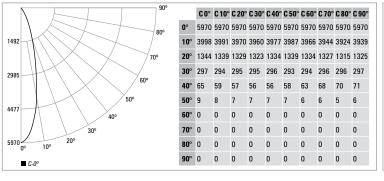
Power Input	21.1 W
Lumens	1720 lm
Efficacy	82 lm/W



m	Center Beam Ix	Beam Ø
2	2475	0.8 m
5	396	2.0 m
10	99	4.1 m
12	69	4.9 m
15	44	6.1 m

LS853LED 4 000 K 25° Beam Angle

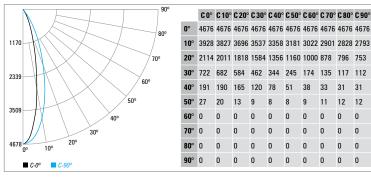
Power Input	21.1 W
Lumens	1605 lm
Efficacy	76 lm/W

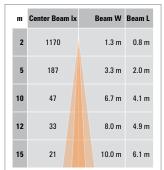


m	Center Beam Ix	Beam Ø
2	401	1.0 m
5	64	2.4 m
10	16	4.8 m
12	11	5.8 m
15	7	7.2 m

LS853LED 4 000 K 20° x 40° Beam Angle

Power Input	21.1 W
Lumens	1450 lm
Efficacy	69 lm/W





0

0

0

0

0

0

Lumascape Lighting Industries Pty Ltd

38-44 Enterprise Street, Cleveland, QLD 4163, Australia

Tel (07) 3286 2299 **Fax** (07) 3286 6599 **Email** sales@lumascape.com.au



C1009 20-11-2006

SAFETY STANDARDS

Lumascape's **GripGlass**TM pattern is specifically designed to maximise effective contact area achieved between an average pedestrian footprint and the slip resistant **GripGlass**TM treated area, while minimising the impact on luminaire output and performance.

Independent laboratories using German standard DIN 51130, have determined the GripGlass™ treated surface area achieves an R11 (or greater) performance rating, using the Oil Wet Ramp Test. This R11 rating relates to the surface area effected with the GripGlass™ treatment only (see diagram), and is not applicable to the entire luminaire including untreated glass area and surrounding stainless steel or brass cover.

A brief explanation of this test is as follows.

OIL-WET RAMP TEST METHOD

Two test persons, wearing standard test shoes, are used to determine the angle of inclination at which safe walking no longer occurs, after the pedestrian surface material being tested is coated with engine lubricating oil. The angles of inclination obtained are used to assess the friction characteristics of the test surface.

Rating	Angle (degrees)
R9	≥6 <10
R10	≥10 <19
R11	≥19 <27
R12	≥27 <35
R13	>35

LS343 recessed cover with GripGlass™ depicted

SLIP RESISTANCE RATINGS FOR TYPICAL PEDESTRIAN SURFACE

Description	Rating
External collonade, walkways and pedestrian crossings	R10
Entry foyers hotel, office, public buildings – wet	R10
Entry foyers hotel, office, public buildings – dry	R9
Shopping centre excluding food court	R9
Shopping centre – food court	R10
Hospitals and aged care facilities — dry areas	R9
Hospitals and aged care facilities — ensuites	R10
Undercover concourse areas of sports stadium	R10

The above information is for reference only. Ratings only refer to the treated area.



REFRACTO

REFRACTOR LENS SYSTEMFORUSEINLS343|LS853



















FFATURES

Available in three widths: Very Narrow Wide Ultra wide

Soft beam edge

Aimable and lockable optics fixed even during relamping

Available in Human Touch configuration

Available in drive over configuration.

IP68 rating

Choice of cable entry (all factory fitted):

3m Anti-leach

IP67 in-line power snap connector

Easy maintenance

Stainless Steel 316 Marine Grade body

Choice of lids, materials and finishes - Polished or brushed, S/S or brass

Inherent side glare control

Hi temp dynamic seal

Exclusive moisture control

Modular gear trays - gear simply drops into place

For full fixture feature list see LS343 literature.

Drive over/pre-installation kit Coloured lenses High pressure die-cast grill



LUMASCAPE LIGHTING INDUSTRIES PTY LTD

Head Office and Factory 38-44 Enterprise Street, Cleveland, QLD Australia 4163 PO Box 1875, Cleveland D.C. QLD Australia 4163

Tel 07 3286 2299 Fax 07 3286 6599 International Telephone 61 7 3286 2299

Fax 61 7 3286 6599

New South Wales Tel (02) 9519 6860 Fax (02) 9519 8834

Tel (03) 9686 1900 Fax (03) 9686 1700

www.lumascape.com.au

ABN: 21 010 572 773



Lumascape's three new Refractor Systems enable functional vertical surface illumination from an inground recessed fixture. Using our optically precise refractor lens, the designer can illuminate walls, columns, flagpoles and other vertical surfaces by directing all available light toward the object of illumination whilst avoiding annoying glare from other viewing angles.

This unique system is mounted within our LS343 recessed inground fixture and is available in a Very Narrow, Wide and Ultra Wide beam using 35 Watt to 150 Watt Metal Halide CDM

The refractor system is mounted beneath your choice of 2 secondary outer lenses - 204Kg per square cm (2,896 Lb per square inch) toughened glass for heavy traffic and drive over environments or the 51Kg per square cm (724 Lb per square Inch) toughened Humantouch lens for lower glass temperatures.

The refractor assembly can be aimed and locked with the turn of a single screw and the lens is keyed within this assembly so that when it is removed during re-lamping it is always returned to the same position, avoiding the risk of interfering with the intended aim of the

Complete Data Sheets and Photometric Reports are available to download from our web site - www.lumascape.com.au or call your local Lumascape representative.

SPECIFICATION	
DESCRIPTION	CATALOGUE NO:
	LAMP
]
NOTES	
	COLOUR
Lumascane Lighting Industries will guarantee the following, product groups from the date of purchase against t	faulty workmanshin or materials for: 1 Underwater-5 years 2 Conner-10 years 3



LUMASCAPE USA INC.

US Head Office 1300 Industrial Rd., Unit #19 San Carlos, CA 94070 USA

Telephone 1-(650)-595-LUMA(5862)

1-(650)-595-5820

www.lumascape.com

Free Call 1-866-695-LUMA(5862)

(US & Canada)

