

The LS853 is a full featured shallow depth inground luminaire that measures only 180 mm deep (in direct burial format). The LS853 is a premium inground luminaire with outstanding performance. The housing is totally sealed and has a rating equivalent to submersion up to 10 m underwater. The glass surface is safe to touch when fitted with HumanTouch™.

LED version see page 11.

SPECIFICATIONS

Lamp Source	MH / HIT T6 (G12) 35 W, 70 W <i>Remote control gear only</i>
IP Rating	IP68
Construction	316 marine grade stainless steel
Installation Types	Direct burial <i>Landscapes, etc.</i>
	Mounting collar <i>Decks and grates (LS640)</i>
	Pre-installation blackout <i>Drive-over or other applications requiring pre-installation (LS6058-K)</i>
Drive-over	With OptiClear™ lens and pre-installation blackout
Static Load Rating	4200 kg with OptiClear™ lens and pre-installation blackout
Impact Rating	IK10 with OptiClear™ lens
Standard Inclusions	Teflon coated cover screws
	MicroAntiLeach™ cable entry
	Thermal cutout
	Humidity absorbent desiccant
Ambient Operating Temperature	-20 °C to 40 °C
Warranty	10 year structural, 1 year electrical
Accessories <i>Order separately</i>	Refer to page 55 for direct burial
	Refer to page 57 for pre-installation
Photometrics	Refer to page 58
Glass Temperature	HumanTouch™ compliant models ≤65 °C 35 W MH / HIT T6

NOTE: Product specifications are subject to change without notice. Any luminaire can become hot - take care with appropriate use and placement



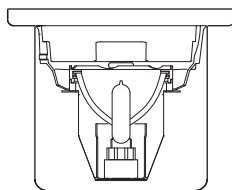
LS853 Recessed Cover
Metal halide with PureOptics™ reflector



LS853 Round Flush Cover
Metal halide with PureOptics™ reflector

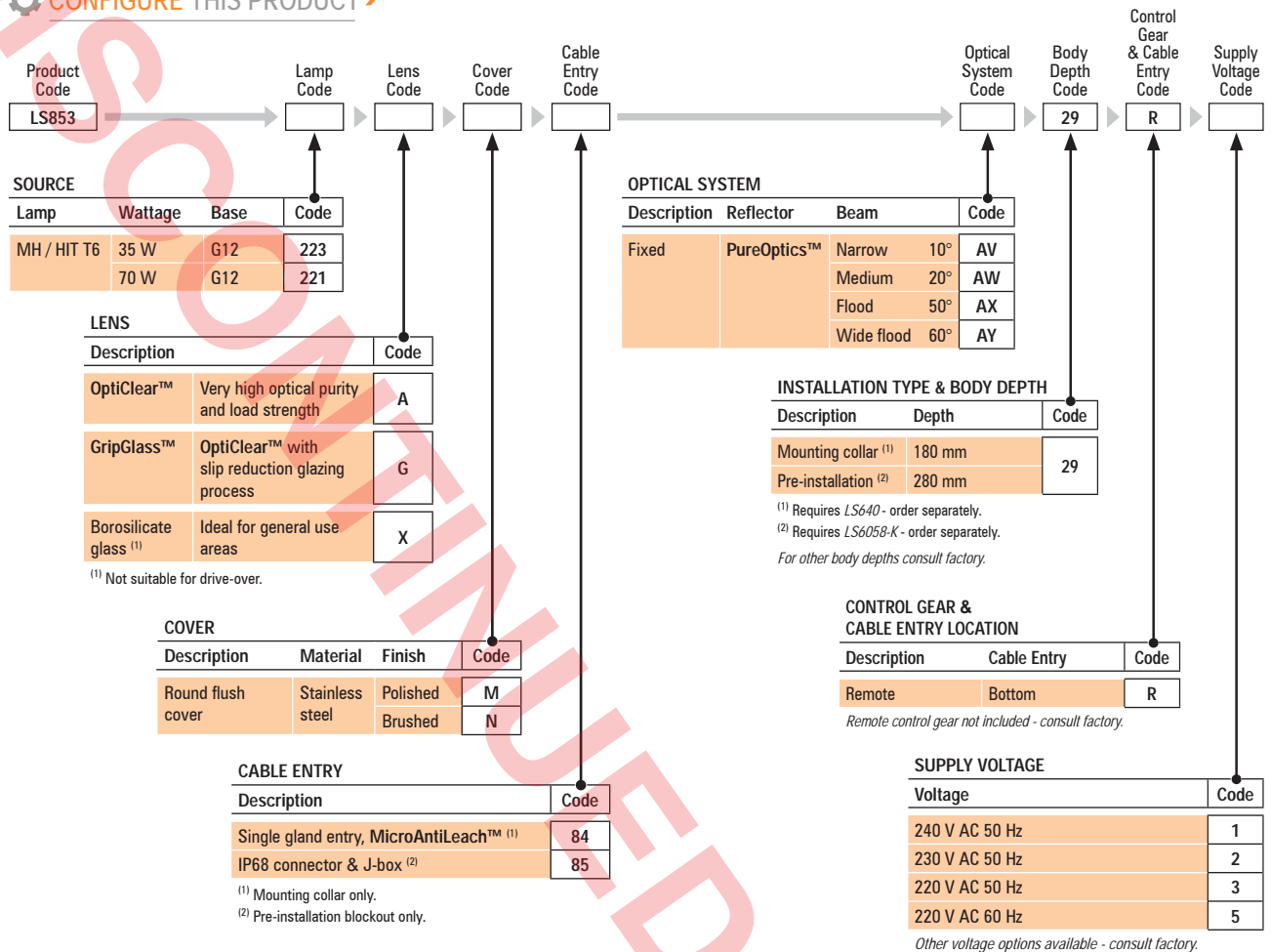


LS853 Pre-installation Round Flush Cover
Metal halide with PureOptics™ reflector

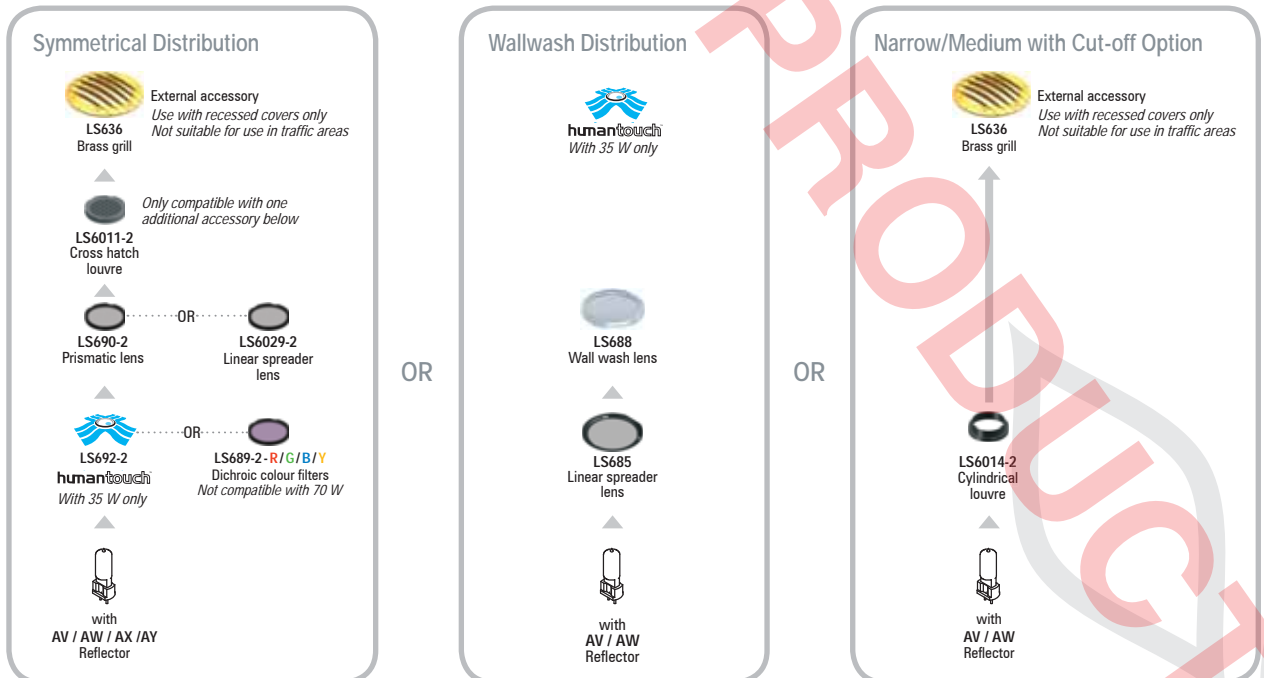


AV / AW / AX / AY
PureOptics™
Reflector

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ACCESSORIES



Other accessory stacking options may be available - consult factory

LS853 Pre-Install & Mounting Collar Options

WHY USE PRE-INSTALLATION BLOCKOUT

This type of installation requires the LS6058-K pre-installation kit (order separately) which acts as a blockout, and is intended for installation before the luminaire. This method ensures the luminaire itself is not damaged during concreting or other site works, and also allows for all wiring to be completed prior to luminaire placement. Pre-installation also

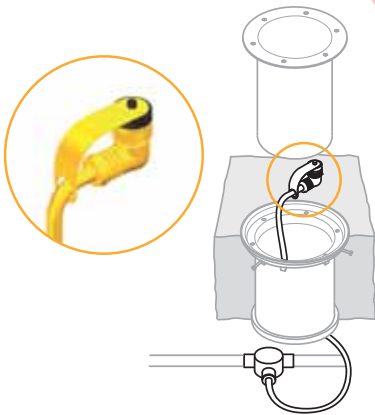
allows for off-site maintenance, via the detachable IP68 connector fitted on the luminaire housing.

The mating connector on the cable has a sealing cap which ensures water does not enter the cable before the installation is completed. Pre-installation is required for all drive-over applications.

WHY USE MOUNTING COLLARS

The LS640 mounting collar supports installation in decks and grates. They may also be used in hollow floors where there is appropriate ventilation.

Cable Entry Option for Pre-Installation Blockout



IP68 Connector & Junction Box

The luminaire is fitted with an IP68 connector, which attaches directly to the cable supplied with the LS6058-K without the use of any tools. The cable is 0.56 m in length, and is factory assembled with a 3 way junction box.

LS640 mounting collars must use a single gland entry. See page 54.

Lens Options

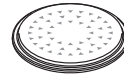
OptiClear™ Glass

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



GripGlass™

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



Borosilicate Glass

Ideal for general use areas. Not suitable for drive-over application.



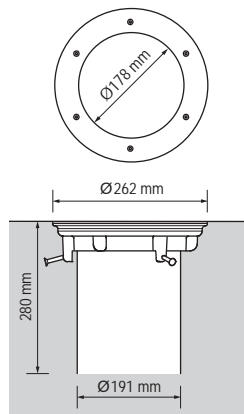
Cover Options for Pre-Installation Blockout & Mounting Collar

Round Flush Cover

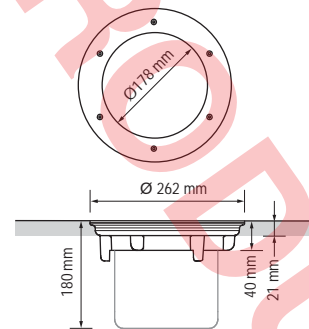
- SS316: Polished
- SS316: Brushed



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

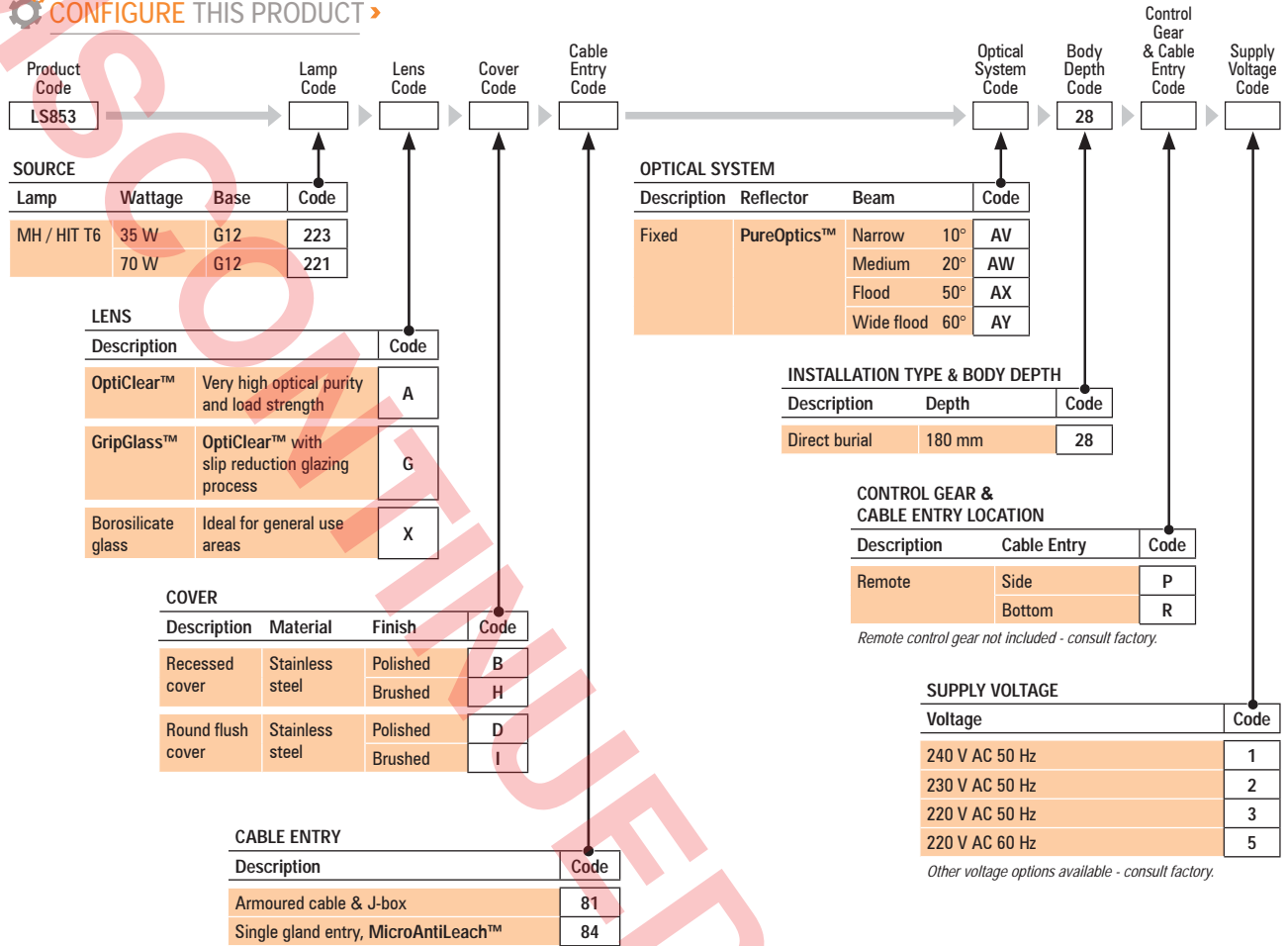


LS6058-K pre-installation blockout

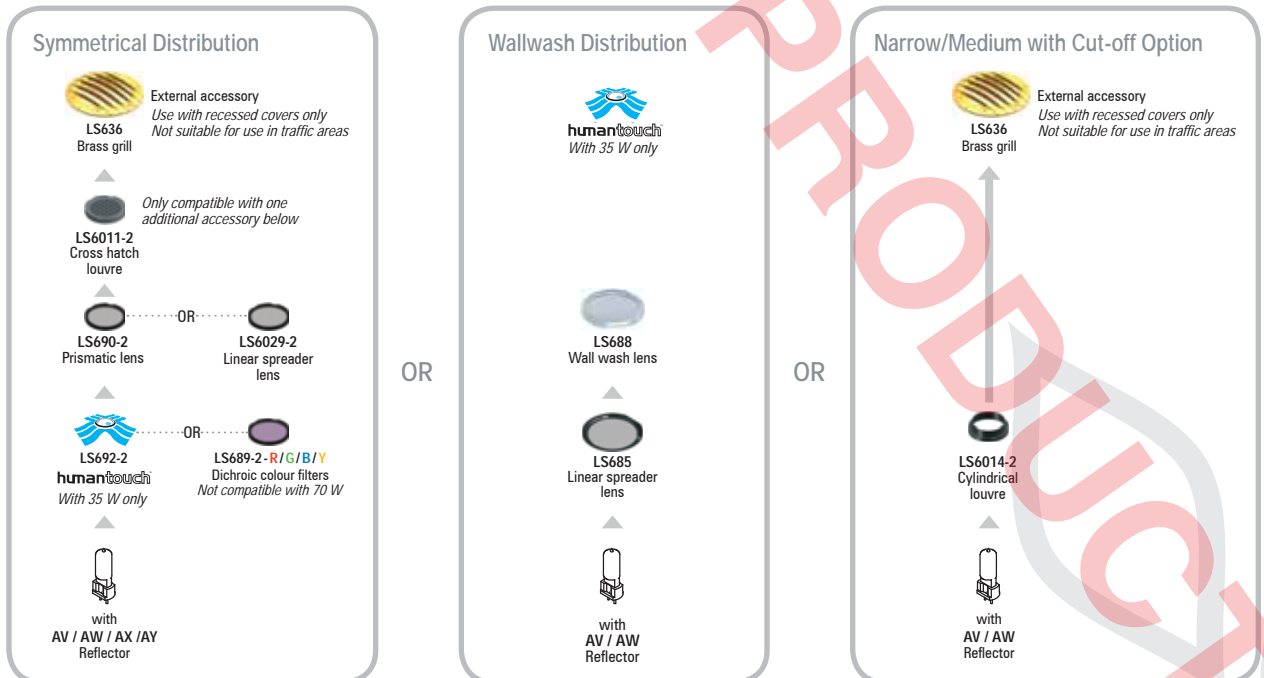


LS640 mounting collar

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ACCESSORIES

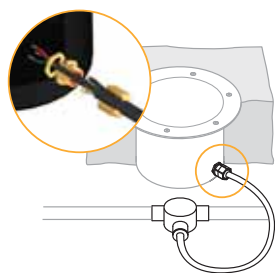


Other accessory stacking options may be available - consult factory

WHY USE DIRECT BURIAL

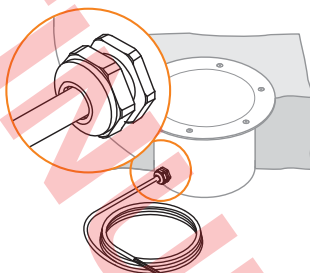
Direct burial installation is ideal for landscaping areas or in locations where the depth is restricted. This type of installation also allows for maximum heat dissipation. The stainless steel construction of the luminaire performs flawlessly in alkaline and acidic soil types, as well as chemically fertilised landscapes.

Cable Entry Option for Direct Burial



Armoured Cable & Junction Box

Armoured cable 0.6 m provides protection against damage to cable between luminaire and 3 way junction box (included). Allows for loop in/loop out and flexibility of luminaire placement.



Single Gland Entry

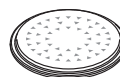
MicroAntiLeach™ and 3 m flexible cable provide additional protection to luminaire against water ingress via cable.

Lens Options



OptiClear™ Glass

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



GripGlass™

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



Borosilicate Glass

Ideal for general use areas. Not suitable for drive-over application.

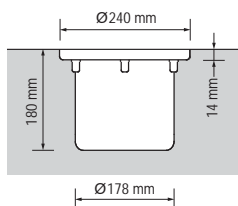
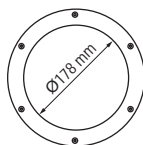
Cover Options for Direct Burial



Recessed Cover

- SS316: Polished
- SS316: Brushed

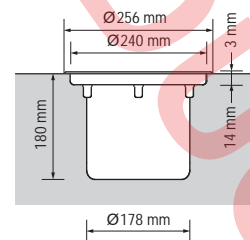
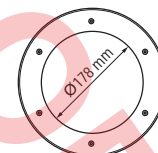
Use recessed cover for installation in soil, grass, pavers and other uneven surfaces where no cover overhang is desired.



Round Flush Cover

- SS316: Polished
- SS316: Brushed

Use flush covers for installation in fine finished surfaces such as granite and marble. They can also be used in some suspended applications (decks, etc). The flush cover will conceal gaps between the luminaire and the surrounding surface.

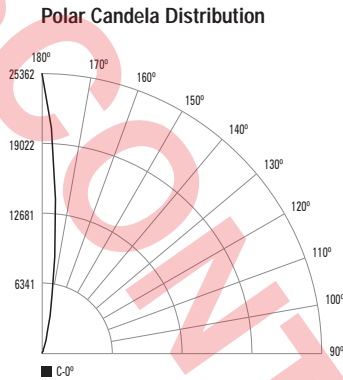


PHOTOMETRICS

IES data is available at www.lumascap.com.au ▶ Technical Data ▶ Photometric Files.
For 70° W AV, AW, AX and AY photometry, see LS343 data on page 50.

LS853 35 W MH
Narrow AV
10° Beam Angle

Power Input	48.8
Lumens	1868
Efficacy	38 lm/W



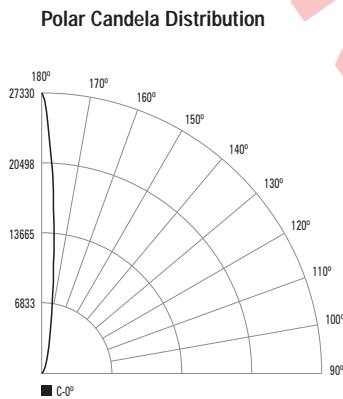
	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
90°	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0
140°	11	10	10	9	9	9	8
150°	241	227	217	234	245	241	240
160°	873	785	776	790	778	776	768
170°	4770	4684	4734	4914	5142	5355	5445
180°	25362	25362	25362	25362	25362	25362	25362

Illuminance at a Distance

m	Center Beam lx	Beam Ø
1	25362	16 cm
2	6341	32 cm
3	2818	47 cm
4	1585	63 cm
5	1014	79 cm

LS853 35 W MH
Medium AW
20° Beam Angle

Power Input	49.3
Lumens	2205
Efficacy	45 lm/W



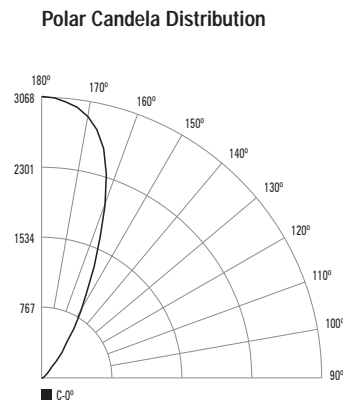
	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
90°	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0
130°	12	10	9	7	5	3	2
140°	52	38	28	21	18	15	15
150°	424	353	323	302	292	270	231
160°	1553	1271	976	944	943	795	705
170°	6213	5582	4834	4808	4976	4998	4900
180°	27330	27330	27330	27330	27330	27330	27330

Illuminance at a Distance

m	Center Beam lx	Beam Ø
1	27330	18 cm
2	6833	36 cm
3	3037	55 cm
4	1708	73 cm
5	1093	91 cm

LS853 35 W MH
Flood AX
50° Beam Angle

Power Input	39
Lumens	2032
Efficacy	23 lm/W



	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
90°	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0
110°	1	1	1	1	1	1	1
120°	5	5	5	5	5	5	5
130°	43	43	43	43	43	43	43
140°	246	246	246	246	246	246	246
150°	837	837	837	837	837	837	837
160°	2003	2003	2003	2003	2003	2003	2003
170°	2891	2891	2891	2891	2891	2891	2891
180°	3068	3068	3068	3068	3068	3068	3068

Illuminance at Distance

m	Center Beam lx	Beam Ø
1	3068	92 cm
2	767	186 cm
3	341	278 cm
4	192	372 cm
5	123	466 cm

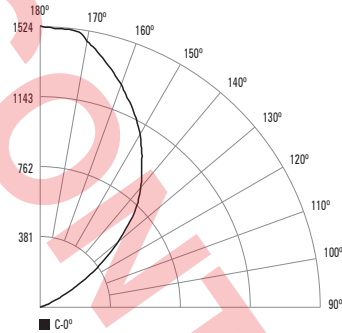
Polar Candela Distribution

LS853 35 W MH

Wide Flood AY

60° Beam Angle

Power Input	38.2
Lumens	1952
Efficacy	51 lm/W



	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
90°	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0
110°	43	38	31	21	12	5	1
120°	226	217	187	148	107	69	42
130°	551	545	499	445	386	314	230
140°	850	840	827	796	749	676	574
150°	1083	1082	1074	1064	1047	1009	950
160°	1283	1291	1309	1316	1304	1268	1227
170°	1463	1465	1466	1470	1479	1469	1446
180°	1524	1524	1524	1524	1524	1524	1524

Illuminance at a Distance

m	Center Beam lx	Beam Ø
1	1524	143 cm
2	381	286 cm
3	169	429 cm
4	95	573 cm
5	61	716 cm

LS853 35 W MH

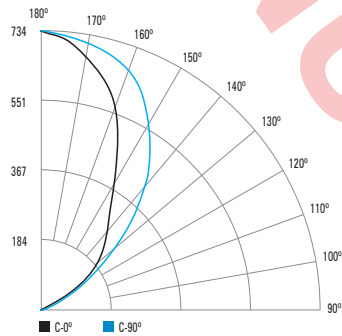
Wide Flood AY +

LS688 + LS685

60° Beam Angle

Power Input	44.1
Lumens	1263
Efficacy	29 lm/W

Polar Candela Distribution



	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
90°	58	87	67	60	58	32	16
100°	137	140	108	106	113	79	60
110°	124	142	146	148	177	133	150
120°	150	173	184	192	237	193	288
130°	179	196	199	232	278	383	460
140°	220	221	240	282	442	573	575
150°	287	293	343	532	610	625	656
160°	566	609	629	631	640	661	679
170°	685	678	678	688	693	699	707
180°	734	734	734	734	734	734	734

Illuminance at a Distance

m	Center Beam lx	Beam Ø
1	734	123 cm
2	184	245 cm
3	82	368 cm
4	46	491 cm
5	29	614 cm