

D-SERIES



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The modern styling of the **D-Series** is striking yet unobtrusive - making a bold, progressive statement as it blends seamlessly with its environment. **D-Series** takes all the benefits of LED technology and moulds it into a high performance, high efficacy and long life area lighting luminaire.

With its exceptional 'finned' thermal management system, **D-Series** is capable of delivering over 100,000 hours LED module life. Offering a wide range of lumen packages and optical distributions, **D-Series** delivers optimised lighting application designs.

With the integrated ZD4i compatibility **D-Series** delivers a controllable luminaire that helps you realise energy consumption goals and demonstrate environmental responsibility. With its unique optics placed below each LED it ensures light is delivered where it needs to be, providing a uniform Nighttime Friendly environment with minimal light pollution.

Applications

- Amenity Areas
- Car Parks
- Retail Parks
- Truck Yards
- Warehousing Exterior Areas

Optics / Light Source

- Lumen packages ranging from 2,000 - 50,000 in 3 different luminaire variants
- Fully soak tested light engines ensuring LED reliability and eliminating early failures.
- 2700K/3000K/4000K colour temperature.
- RA 70.

TM66 CEAM-Make Rating

Preliminary Rating: 2.3 (Definite/substantial progress to circularity).

Approvals

Complies with EN60598



IP IP65 luminaire and LED optic

Ta -40°C to +40°C

DSX1



For further information please visit the Holophane website www.holophane.co.uk

AN ENVIABLE REPUTATION THROUGHOUT THE WORLD

125 years of 
Innovation & Excellence

When Holophane was founded in 1896 in London, headed by Pelham Trotter, it marked the start of an incredible history that has now seen Holophane become a global business revered throughout the world for its expertise, quality, innovation and excellence in lighting.

Holophane's first product was the famous patented globe in 'white' or 'rose crystal' that sold for around 2 shilling (10p). Today, Holophane continues this proud tradition with our values deeply rooted in the dedication to creating luminaires, with exceptional lighting performance, innovative patented technologies, and delivering added customer value beyond illumination.

What does it mean for our customers?

A Trusted & Reliable UK Manufacturer

From Royalty all the way to small residential projects, Holophane has been a trusted manufacturer over the decades for all manner of projects. You can be sure you are in good hands and can rely on the collective knowledge and expertise we have gathered since our inception in 1896.

Development of Innovative Products

As part of our design philosophy, Holophane are always trying to push boundaries in the development of unique product innovations. As such many of our luminaires hold UK and International design patents.



Products That Deliver Added Value

In today's world, sustainability and added value are becoming increasingly important. As such our products and solutions go further than just lighting. Many of our innovations include integrated smart connected solutions to help customers achieve further energy savings and can also enable remote monitoring.

Delivering excellent customer service

Over our 125-year history we have always been committed to delivering the best service to our customers and supporting in a myriad of ways to ensure the best possible outcomes. This goes as far as offering a free lighting design service to one-off products/solutions to meet customers unique needs.

THE D-SERIES RANGE 3 LUMINAIRES, ONE COMPLETE PROJECT SOLUTION

The **D-Series** range has been designed not only for super optical quality and performance but also to have a cohesive family aesthetic.

Available in 3 luminaire sizes, the D-Series range offers a full outdoor lighting solution for any environment.



DSX2

30,000 - 50,000 lumens
8m mounting heights and above

DSX1

22,000 - 36,000 lumens
between 6m and 10m mounting heights

DSX0

2,000 to 22,000 lumens
up to 6m mounting heights

PRODUCT FEATURES

D-SERIES

Enhanced Performance

The **D-Series** range features the very latest LED technologies. In conjunction with silicone optics this delivers the best lighting performance coupled with low-energy consumption and high efficacy. This also means D-Series meets BREEAM compliance.

Class leading optics

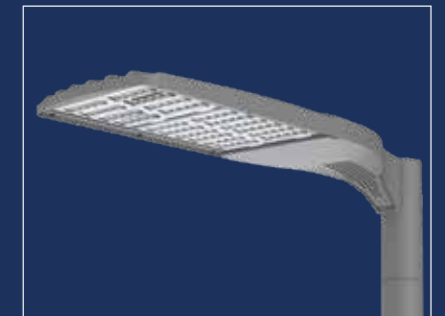
The **D-Series** range has the flexibility of 4 optimised optical distributions. Through using individual bubble optics per LED D-Series controls the light exactly where it's needed. This results in a luminaire that provides best in class spacings and uniformity.

Easy maintenance

The **D-Series** range has an easily accessible gear compartment ensuring fast and simple component changes if required.



DSX1



DSX2

Connected

The **D-Series** range is ZD4i compatible when specified with the 4-pin Zhaga socket options (TZ01 or TZ02) enabling a future proof luminaire that can be used in conjunction with Controlux Air or an expanding ecosystem of third party devices and sensors.

Note: Post Top Bracket for The D-Series range is sold separately. Please enquire with your Holophane representative for the full range of mounting options.



DSXO



THERMAL MANAGEMENT

The reliability and performance of an LED luminaire is dependent on a combination of factors. Keeping the temperature of the drivers, LEDs and electronic components as low as possible is critical to maintaining the luminaire's efficiency.

One of Holophane's key luminaire design principles ensures that the **D-Series** family utilises all three heat transfer principles of conduction, convection and radiation.



Conduction

Taking heat away from electronic components, LEDs and drivers.

The **D-Series** range has drivers and LEDs that are mounted directly to thermally efficient, LM6 Aluminium to promote efficient transfer of heat from these critical components.



Convection

From luminaire heat sink chassis and LED module to ambient air.

The **D-Series** range is designed to have drivers and LEDs that are mounted separately to avoid compound heating of components. This ensures critical components are kept as cool as possible to ensure long system life.



Radiation

Surface finish and form designed to maximise heat radiation.

The **D-Series** range incorporates a large finned casting design which increases the total surface area of the luminaire and in turn helps to promote cooling through radiation.

THERMAL MANAGEMENT

DSX1



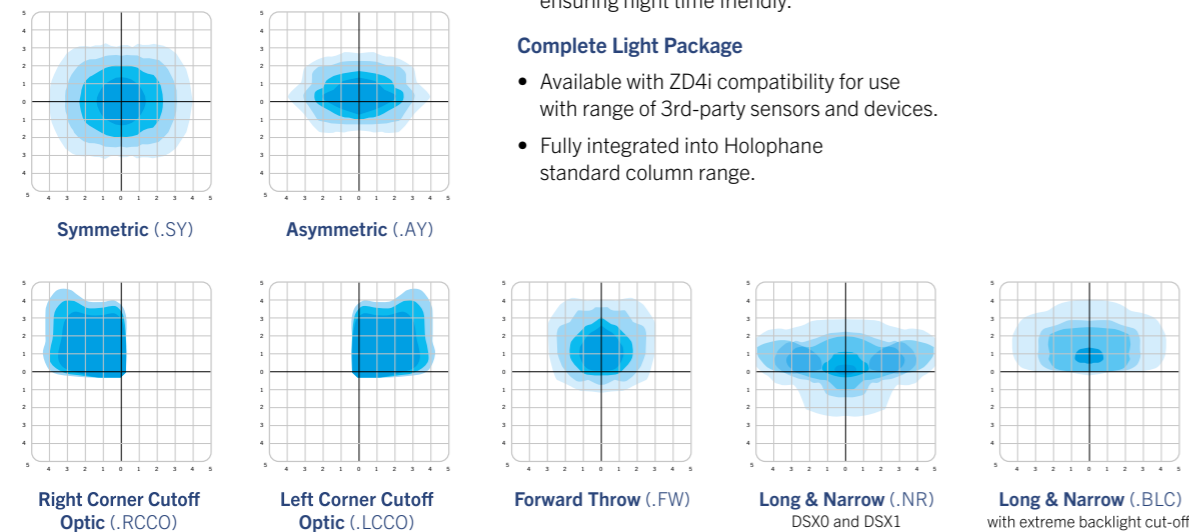
SPECIFICATION

Specification

Single-piece die-cast aluminium housing, that conforms to EN1706 AC-46500, with integral heat sink fins to optimise thermal management through conductive cooling. LED modules are IP65 with individual lenses, and high grade aluminium housing to transfer heat away from the LEDs and dissipate through the finned housing for cooling. The LED driver is mounted in direct contact with the finned housing for cooling to promote low operating temperature and long system life. Housing is completely sealed against moisture and environmental contaminants (IP65). Installation is via the integrated mounting block and integral arm that facilitate a quick and easy installation.

3000K or warmer must be selected for IDA dark sky certification.

Light Distributions



SPECIFICATION

Features and benefits

System Longevity

- The D-Series's diecast aluminium housing acts as its primary heat sink. Its longitudinal fins employ conductive cooling techniques to dissipate heat away from the key LED components and driver that extends the life of the luminaire.
- Light engine(s) consist of either 20 or 30 high efficacy LEDs (subject to chosen configuration) mounted to a metal-core circuit board to maximize heat dissipation and promote long life.

Exceptional Performance

- Offering six lumen packages ranging from 2000 lm to 50,000 lm with efficiencies of up to 143 lpw (Lumens Per Watts).
- Four optimised distributions (Symmetric, asymmetric, forward throw and long and narrow) delivered by quality LEDs and bespoke UV stabilised optics.
- LED light engines with 0% ULOR ensuring night time friendly.

Complete Light Package

- Available with ZD4i compatibility for use with range of 3rd-party sensors and devices.
- Fully integrated into Holophane standard column range.

DIMENSIONS & PERFORMANCE

Typical luminaire performance

Configuration	Delivered Lumens	Circuit Power (W)	Driver output current (mA)	Luminaire total number of LEDs	Luminaire efficacy (Lm/W)
DSX0.1.LA02X	2,000	15	450	20	133
DSX0.1.LA03X	3,000	21	650	20	143
DSX0.1.LA04X	4,000	29	450	20	138
DSX0.1.LA05X	5,000	37	570	20	135
DSX0.1.LA06X	6,000	45	700	20	133
DSX0.1.LA08X	8,000	64	990	20	125
DSX0.1.LA10X	10,000	81	1250	20	123
DSX0.1.LA11X	11,000	88	700	40	133
DSX0.1.LA13X	13,000	107	850	40	127
DSX0.1.LA15X	15,000	133	1050	40	120
DSX0.4.LA16X	16,000	114	932	40	140
DSX0.4.LA18X	18,000	130	1050	40	138
DSX0.4.LA22X	22,000	169	1385	40	130
DSX1.2.LA30X	30,000	286	1400	60	105
DSX1.4.LA36X	36,000	256	1400	60	128
DSX2.2.LA30X	30,000	282	1050	80	115
DSX2.2.LA36X	36,000	328	1000	100	121
DSX2.4.LA40X	40,000	268	883	100	136
DSX2.4.LA45X	45,000	339	1016	100	133
DSX2.4.LA50X	50,000	386	1157	100	130

Weight (with control gear)

DSX 0	8.0 kg
DSX 1	12.2 kg
DSX 2	15.0 kg

Windage (effective projected area)

DSX 0	0.09 m ²
DSX 1	0.09 m ²
DSX 2	0.10 m ²

TA

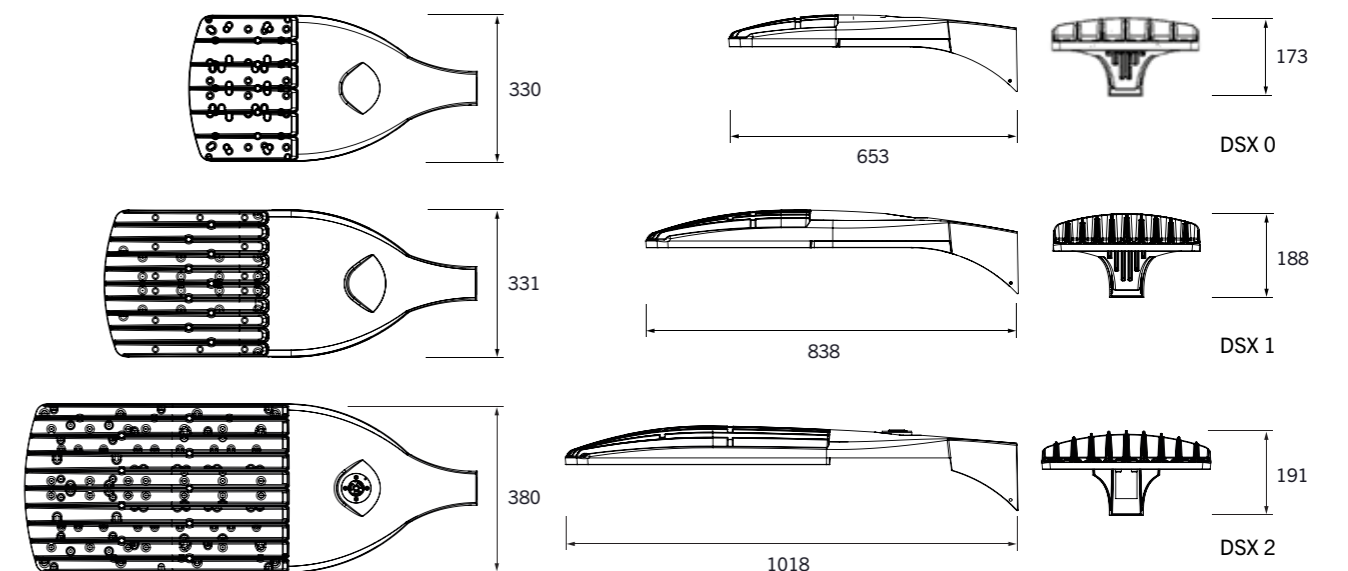
-40°C to 40°C

X - Denotes colour temperature (replace X with 2 for 2700K, 3 for 3000K and 4 for 4000K)

Note: Data is correct at time of print.
* For other life metric data in line with IEC PAS62722-2-1 and 62717 contact your Holophane Representative for details.



dimensions in mm



DSX2



Code		Luminaire (required)	
DSX0	D-Series 1 Luminaire		
Code		Lamp Type (required)	
.LA02X	LED light engine producing c.2,000 lm		
.LA03X	LED light engine producing c.3,000 lm		
.LA04X	LED light engine producing c.4,000 lm	Replace 'X' in lamp type code	
.LA05X	LED light engine producing c.5,000 lm	with either:	
.LA06X	LED light engine producing c.6,000 lm	2 for 2700K	
.LA08X	LED light engine producing c.8,000 lm	3 for 3000K	
.LA10X ¹	LED light engine producing c.10,000 lm	4 for 4000K	
.LA11X	LED light engine producing c.11,000 lm	¹ TZ01, TZ02 & TZ03	
.LA13X	LED light engine producing c.13,000 lm	Not available with lumen codes	
.LA15X	LED light engine producing c.15,000 lm	LA10X and LA22X	
.LA16X	LED light engine producing c.16,000 lm		
.LA18X	LED light engine producing c.18,000 lm		
.LA22X ¹	LED light engine producing c.22,000 lm		
Code		Distribution (required)	
.SY	Symmetric light distribution		
.AY	Asymmetric light distribution		
.FW	Forward Throw distribution		
.NR	Long and Narrow distribution		
.BLC	Long and Narrow distribution with extreme backlight cut-off		
.RCCO	Right Corner Cutoff		
.LCCO	Left Corner Cutoff		
Code		Colour (required)	
.C1	Smooth White (RAL9016)		
.C4	Graphite (RAL 7011)		
.C6	Smooth Grey (RAL7035)		
.C7	Black (RAL9005)		
.C9	Metallic Silver (RAL9006)		
.RAL***	RAL Colour (Customer choice)		
Code		Voltage Electrical Class (option)	
.CII	Class II		
Code		Photocell (option)	
.TSZ	Complete with miniature 70 lux factory fitted photocell. (Zodion SS12)		
.T1	Complete with NEMA socket. (To accept standard NEMA Photocell, available from Holophane).		
.T5	Complete with 5-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) without locking top		
.T7	Complete with 7-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) without locking top		
.T5T	Complete with 5-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) with weather proof locking top		
.T7T	Complete with 7-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) with weather proof locking top		
.TZ01	Complete with 4-Pin Zhaga Socket - 'Top' (suitable photocell/node supplied by others) with weather proof locking cap		
.TZ02	Complete with 4-Pin Zhaga Socket - 'Bottom' (suitable photocell/node supplied by others) with weather proof locking cap		
.TZ03	Complete with 4-Pin Zhaga Socket - 'Top & bottom' (suitable photocell/node supplied by others) with weather proof locking cap		
Code		Controls (option)	
.PH1	PIR on a Zhaga socket, suitable up to 12m. Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL.PRG (purchased separately). Requires option TZ02 or TZ03.		
.PH2	Groupable PIR on a Zhaga socket, suitable up to 12m. Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL.PRG.G (purchased separately). Requires option TZ02 or TZ03.		
.CA	Wireless lighting node (top socket) for use with Holophane Controlux Air System. Requires option TZ01 or TZ03. (Includes subscription package for two years)		
.CAP	Wireless lighting node (top socket) & PIR (bottom socket) for use with Holophane Controlux Air System. Requires option TZ03. (Includes subscription package for two years). Suitable up to 12m.		
Code		Control Gear (option)	
.CL7	Programmed to deliver 70% of the initial lumens over the life of the luminaire		
.CL8	Programmed to deliver 80% of the initial lumens over the life of the luminaire		
.CL9	Programmed to deliver 90% of the initial lumens over the life of the luminaire		
.CL****	Customer specified programming		
Code		Dimming outputs (option)	
.LRD	DALI		
.LRT56	pre-set to dim to 50% between 12am to 6am		
.LRT66	pre-set to dim to 60% between 12am to 6am		
.LRT76	pre-set to dim to 70% between 12am to 6am		
.LRT*****	Customer specified pre-set dimming		
Code		Paint finish (option)	
.C	Enhanced Paint Finish		
DSX0	.LA02X	.AY	.C7
		.CII	.TSZ
		.CL7	.LRD
		.C	



Code		Luminaire (required)	
DSX1	D-Series 1 Luminaire		
DSX2	D-Series 2 Luminaire		
Code		Lamp Type (required)	
.LA22X*	LED light engine producing c 22,000 lumens		
.LA30X*	LED light engine producing c 30,000 lumens	With a nominal 3000K or 4000K colour temperature.	
.LA36X**	LED light engine producing c 36,000 lumens	Replace X with 2 for 2700K, 3 for 3000K, 4 for 4000K	
.LA40X*	LED light engine producing c 36,000 lumens	TZ01, TZ02 & TZ03 Not available with lumen codes LA30X & LA36X when	
.LA45X**	LED light engine producing c 45,000 lumens	configured with DSX1. Also not available with lumen codes LA45X and LA50X	
.LA50X**	LED light engine producing c 50,000 lumens		
Code		Distribution (required)	
.AY	Asymmetric		
.SY	Symmetric		
.FW	Forward throw		
.BLC	Long and Narrow distribution with extreme backlight cut-off		
.NR	Long and Narrow distribution		
Code		Colour (required)	
.C1	Smooth White (RAL9016)		
.C4	Graphite (RAL 7011)		
.C6	Smooth Grey (RAL7035)		
.C7	Black (RAL9005)		
.C9	Metallic Silver (RAL9006)		
.RAL****	RAL Colour (Customer choice)		
Code		Photocell (option)	
.T	Mini Photocell		
.T1	Complete with NEMA socket (To accept standard NEMA Photocell, available from Holophane)		
.T5	Complete with 5-pin dimming NEMA ANSI C136.41 socket (suitable photocell/node supplied by others) without locking top		
.T7	Complete with 7-pin dimming NEMA ANSI C136.41 socket (suitable photocell/node supplied by others) without locking top		
.T5T	Complete with 5-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) with weather proof locking top		
.T7T	Complete with 7-pin dimming NEMA ANSI C136.41 socket (photocell/node supplied by others) with weather proof locking top		
.TZ01	Complete with 4-Pin Zhaga Socket - Top (suitable photocell/node supplied by others) with weather proof locking top ⁺		
.TZ02	Complete with 4-Pin Zhaga Socket - Bottom (suitable node/presence detector supplied by others) with weather proof locking top ⁺		
.TZ03	Complete with 4-Pin Zhaga Socket - 'Top & bottom' (suitable photocell/node supplied by others) with weather proof locking cap.		
Code		Control Gear (option)	
.CL7	Programmed to deliver 70% of the initial lumens over the life of the luminaire		
.CL8	Programmed to deliver 80% of the initial lumens over the life of the luminaire		
.CL9	Programmed to deliver 90% of the initial lumens over the life of the luminaire		
.CL****	Customer specified programming		
Code		Controls (option)	
.PH1	PIR on a Zhaga socket, suitable up to 12m. Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL.PRG (purchased separately). (Requires option TZ02 or TZ03).		
.PH2	Groupable PIR on a Zhaga socket, suitable up to 12m. Dims to 30% after 10 minutes of inactivity - switches off after further 10 minutes. Remotely re-programmable with accessory HEL.PRG.G (purchased separately). (Requires option TZ02 or TZ03).		
.CA	Wireless lighting node (top socket) for use with Holophane Controlux Air System. (Includes subscription package for two years) (Requires option TZ01 or TZ03).		
.CAP	Wireless lighting node (top socket) & PIR (bottom socket) for use with Holophane Controlux Air System. (Includes subscription package for two years). Suitable up to 12m. (Requires option TZ03).		
Code		Dimming outputs (option)	
.LRD	DALI		
.LRT56	Pre-set to dim to 50% between 12am to 6am		
.LRT66	Pre-set to dim to 60% between 12am to 6am		
.LRT76	Pre-set to dim to 70% between 12am to 6am		
Code		Paint finish (option)	
.C	Enhanced Paint Finish		
DSX1	.LA30X	.AY	.C7
		.T1	.CL7
		.PH1	.LRT56
		.C	



Example

*DSX1 only +DSX1 & **DSX2 only

Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturers data) and luminaire power of +/- 5%.

Note: The specifications of the Holophane luminaire, all descriptions, illustrations, drawings and specifications in the Holophane catalogue and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.

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