

ELECTRICAL TECHNICAL SUBMITTAL FORM		Status	S
		Tech. Submittal Ref.	G1144-GBS-ZZ-ZZ-TS-E-00003
		Submission Date	21/03/2023
		Response Required	28/03/2023
		Issued by	Craig Fletcher
To:	Glencar	Project Name	Gateway 36
FAO:	Daniel Cummins	Contract No.	P0286
		Status	S3 For Review/Comment
Technical Submission Topic External Lighting			
Technical Submittal Description: External Lighting			
Holophane External lighting and controls			
Attachments Technical data sheet			
Submitted		Signature	Craig Fletcher
Gallant Building Services			
Response to Technical Submittal			
Response By: Date			
Response Attachments			

> DATASHEET - AMENITY - DSX0

DSX0.1.LA064.AY.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX0 HOLOPHANE WEBSITE

DSX0.1.LA064.AY.C6

Holophane D-Series 0 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 1
- LED light engine producing c.6,000 lm with a nominal 4000K colour temperature
- Asymmetric light distribution
- Smooth Grey (RAL7035)



HAWA.AU.GV6

Holophane D-Series wall bracket .

- Bracket galvanised and painted grey (RAL7035)

Please note that it is the responsibility of the installing contractor to confirm that the bracket offered within this quotation suits the application.

PERFORMANCE

Drive Current from Driver:	700mA
Power:	45W
Fitting Current:	0.2A
Power Factor:	0.97
Fitting Inrush:	43A - 0.26ms
Number of Drivers:	1
1x Driver 1 Inrush:	43A - 0.26ms
Max Drivers per 16A Type B MCB:	10
Max Fittings per 16A Type B MCB:	10
Total Number of LEDs:	20
Minimum Dim Level:	14 %
Optical Risk Group:	1



8Kg₂

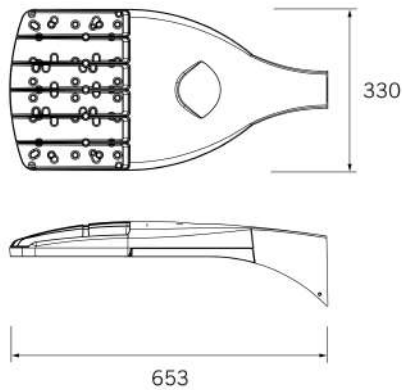


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

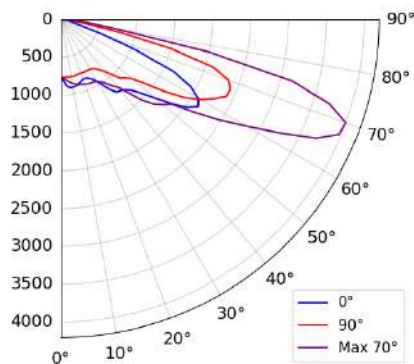
2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

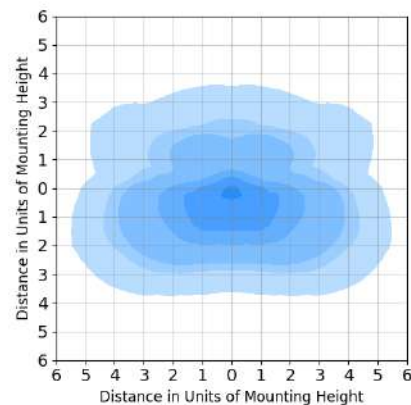
*Preliminary Rating

PHOTOMETRY [↓ IES FILE](#)

Polar Plot

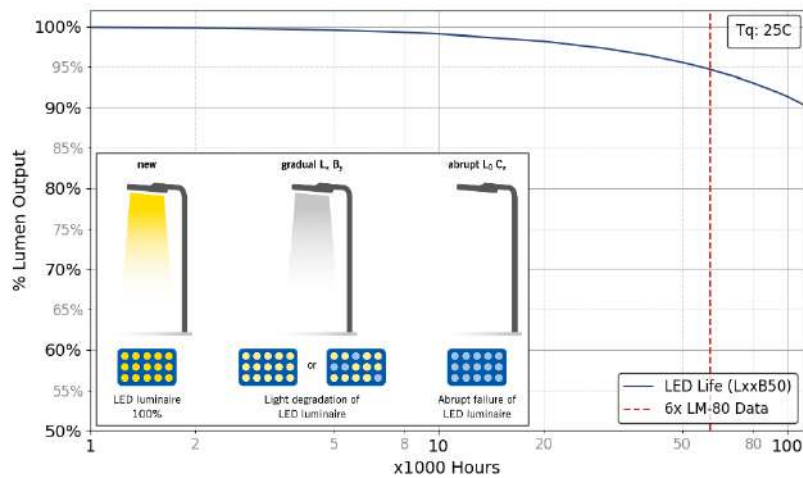


Isoilluminance Plot



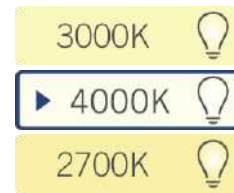
Lumens:	5,835
CCT:	4000K
CRI:	70
IES File:	DSX0.1.LA064.AY
G-Class:	G*2 Imax @ ≥ 70°: 687 Imax @ ≥ 80°: 127 Imax @ ≥ 90°: 0

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
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Custom Colour Available

RAL****	Customer specified colour
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*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

The specifications of the Holophane luminaires represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue, Datasheets 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.

> DATASHEET - EXTERNAL - DSX1

DSX1.2.LA164.FW.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX1 HOLOPHANE WEBSITE

DSX1.2.LA164.FW.C6

Holophane D-Series 1 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 2
- LED light engine producing c.16,000 lm with a nominal 4000°K colour temperature
- Forward throw light distribution
- Smooth Grey (RAL7035)



DSX1B.8.1A.LMZ.GV

Holophane tubular base compartment column for use with DSX1 luminaires. 8 metre, Single head, For light & medium area wind zones (compliant to EN40).

- Bracket galvanised
- Direct embedment

PERFORMANCE

Drive Current from Driver:	700mA
Power:	131W
Fitting Current:	0.59A
Power Factor:	0.97
Fitting Inrush:	53A - 0.3ms
Number of Drivers:	1
1x Driver 1 Inrush:	53A - 0.3ms
Max Drivers per 16A Type B MCB:	8
Max Fittings per 16A Type B MCB:	8
Total Number of LEDs:	30
Minimum Dim Level:	10 %
Optical Risk Group:	1



12.2Kg₂

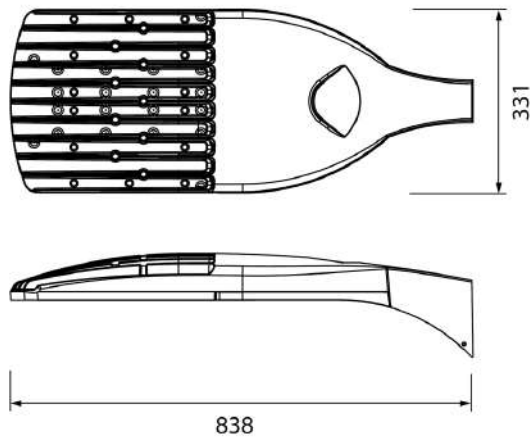


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

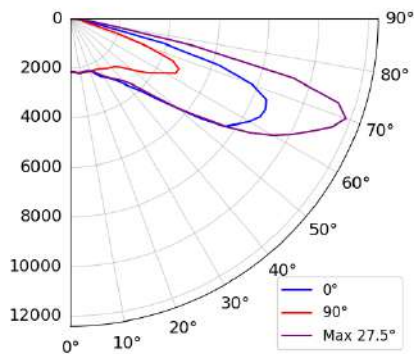
2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

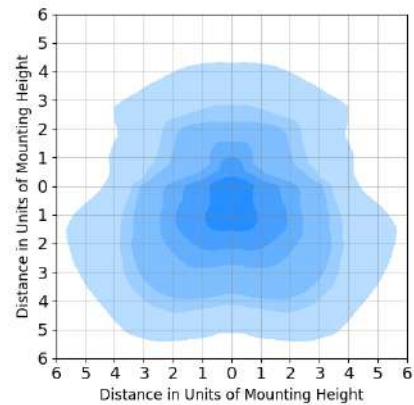
*Preliminary Rating

PHOTOMETRY [↓ IES FILE](#)

Polar Plot

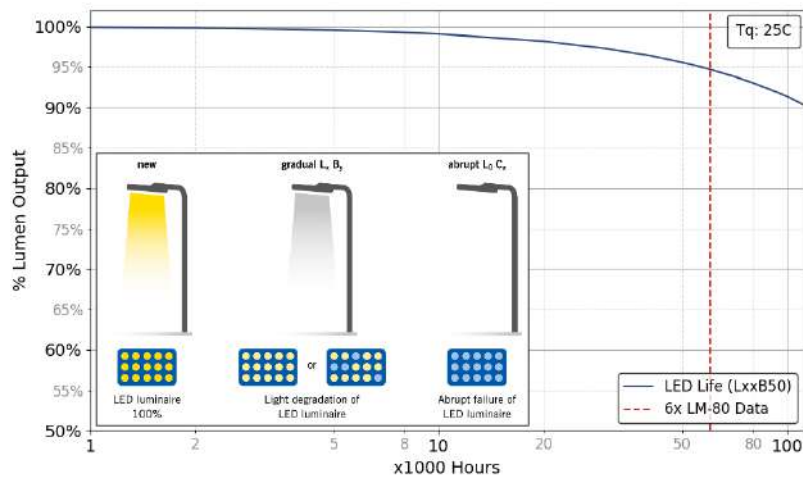


Isoilluminance Plot



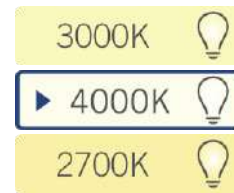
Lumens:	17,044
CCT:	4000K
CRI:	70
IES File:	DSX1.2.LA164.FW
G-Class:	G*2 Imax @ $\geq 70^\circ$: 693 Imax @ $\geq 80^\circ$: 118 Imax @ $\geq 90^\circ$: 0

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
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Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

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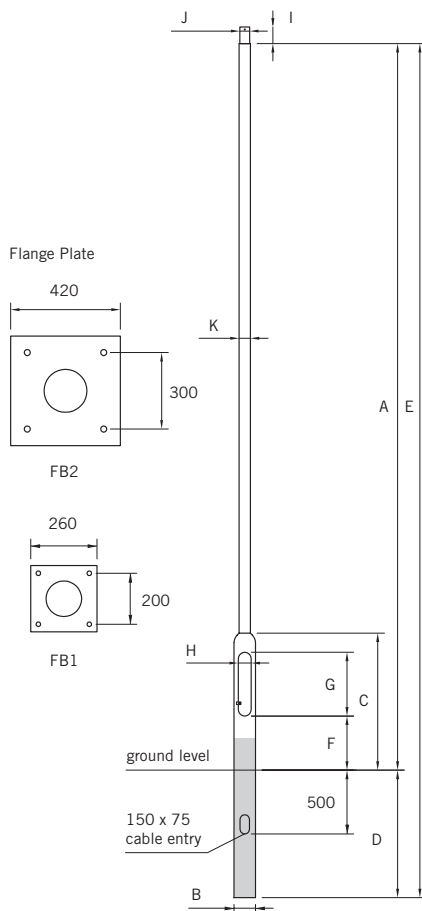
> DATASHEET

DSX1B.8.1A.LMZ.GV



Holophane products that are suitable

CityMax
Denver Elite pole
D-Series
Factor
Factor small
V-Max



	Nominal Height	Base Diameter*	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length*	Spigot Diameter*	Shaft Diameter*	Weight kg*	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
2.5m standard duty	2500	140	1075	800	3300	400	500	100	-	-	76	27	2100
3m standard duty	3000	140	1075	800	3800	400	500	100	-	-	76	30	4666
3.5m standard duty	3500	140	1075	800	4300	400	500	100	-	-	76	32	2100
4m standard duty	4000	140	1075	800	4800	400	500	100	-	-	76	34	6484
4.5m standard duty	4500	140	1075	800	5300	400	500	100	-	-	76	37	5108
5m standard duty	5000	140	1075	800	5800	400	500	100	-	-	76	39	6149
5.5m standard duty	5500	140	1075	1000	6500	400	500	100	-	-	76	44	6003
6m standard duty	6000	140	1075	1000	7000	400	500	100	-	-	76	46	5999
6m heavy duty	5700	168	1200	1000	6700	400	600	115	130	76	89	71	10404
8m standard duty	7700	168	1200	1200	8900	400	600	115	130	76	89	89	10072
8m heavy duty	7700	168	1300	1200	9000	500	600	115	250	101	114	107	15699
8m extra heavy duty	7700	194	1300	1200	9000	500	600	115	250	127	140	136	18973
10m standard duty	9700	168	1300	1500	11200	500	600	115	250	101	114	150	18067
10m heavy duty	9700	194	1300	1500	11200	500	600	115	250	127	140	168	23193
10m extra heavy duty	9700	194	1300	1500	11200	500	600	115	250	152	168	220	28317
12m standard duty	11700	194	1300	1700	13400	500	600	115	250	127	140	213	26251
12m heavy duty	11700	194	1300	1700	13400	500	600	115	250	127	168	260	40390

* Exclusion TBC

2.5-6m std Poles Flange Plate FB1 Bolts M18 x 400
8-12m std Poles Flange Plate FB2 Bolts M24 x 820

Flange Plate and Anchor Bolt information will be confirmed at time of order due to the necessity in ensuring the correct plate and Anchor Bolts are supplied.

Column type to be confirmed at time of order as this is based on luminaire weight, windage and geographical location.

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Bond Avenue, Milton Keynes
Buckinghamshire MK1 1JG
United Kingdom



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F Intl +44 (0)1908 363 789

E info@holophane.co.uk

stepped steel - CityMax Large only post top

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
6m	6000	140	1075	1000	7000	400	500	115	-	-	-	46	5999
8m	7700	168	1300	1200	9000	500	600	115	100	76	114	107	15699
10m	9700	168	1300	1500	11200	500	600	115	100	76	114	150	18067
12m	11700	194	1300	1700	13400	500	600	115	100	76	140	168	26251
15m	14700	194	1200	2000	17000	400	600	115	100	76	168	306	40300

twin head

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
8m	7400	194	1200	1200	8800	400	600	115	200	127	139.7	125	22610
10m	9400	194	1200	1500	11100	400	600	115	200	152.4	168.3	208	39131
12m	11400	194	2500	1700	13300	1000	600	115	200	152.4	168.3	295	41585

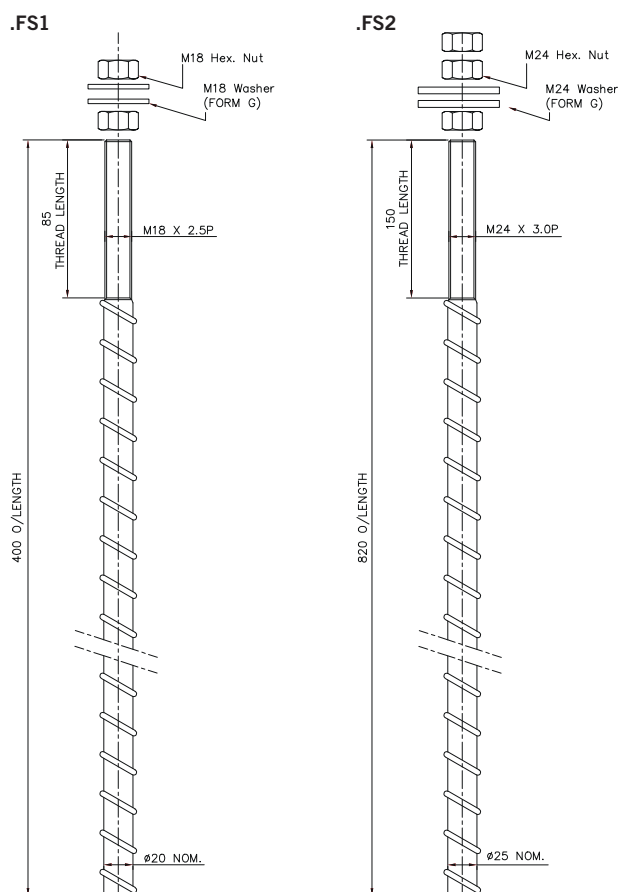
Note: For Terrain Category 2 locations LMZ, HVZ & HEZ

For columns supplied with optional flange base Holophane offers two types of foundation bolts.

Note: The material used for the bolts is Fe E500 grade steel, with yield strength 500 N/mm² and minimum UTS 550 N/mm².

HEL.FS1 M18 Bolts (FS1) x 400 mm long

HEL.FS2 M24 Bolts (FS2) x 820 mm long

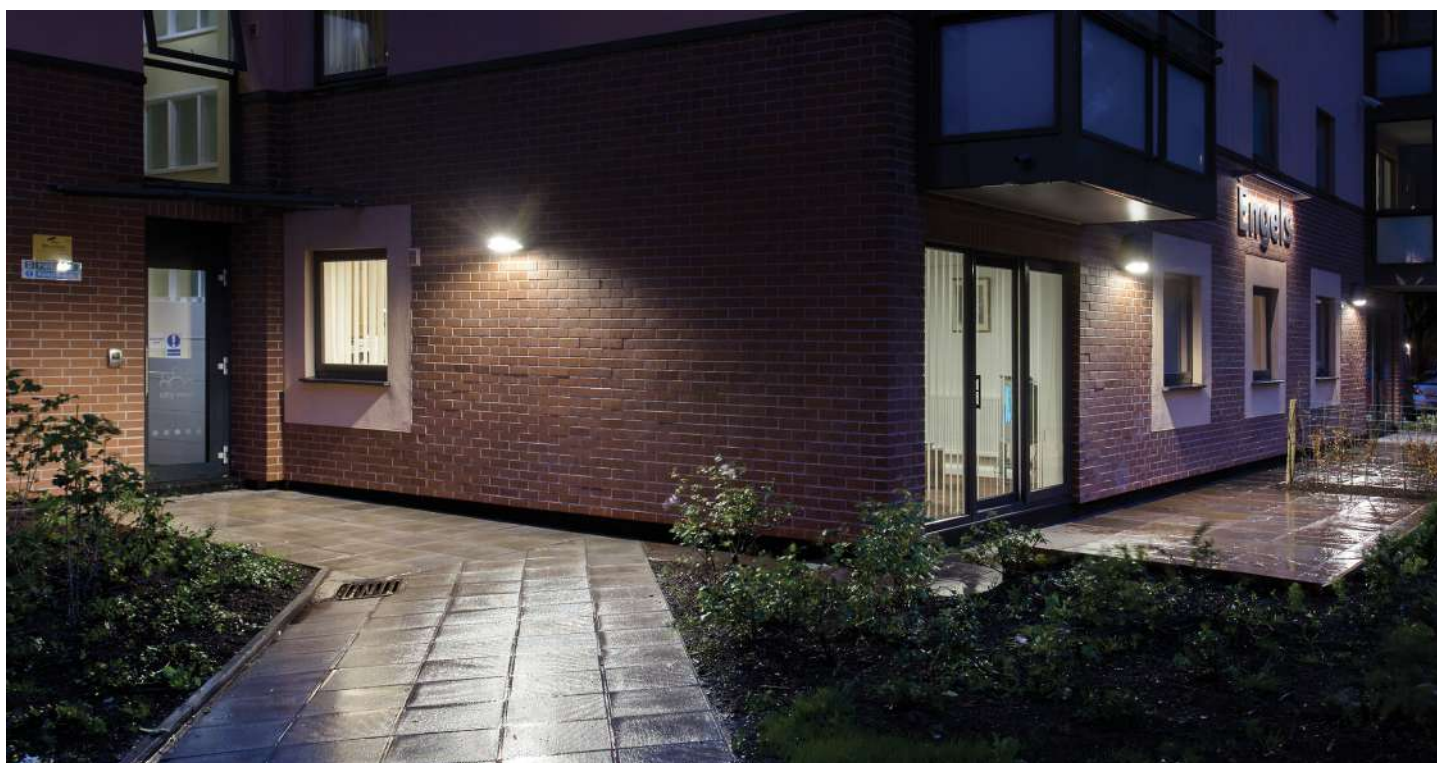


> DATASHEET - EXTERNAL - DEW

DEW.LA014.PGL.NR.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION

 [DEW HOLOPHANE WEBSITE](http://www.holophane.co.uk)

Holophane Denver Elite Wall luminaire. Tri-lobular wall mounted luminaire manufactured from LM6 marine grade die-cast aluminium body, with integrated thermal management design. Optical arrangement with aluminium internal reflector and PrismaLED prismatic soda lime or clear glass lens dependent on optical distribution. Sealed to IP65 and suitable for wall mounting with rear, top, side and through wiring options via 20mm Ø knockout cable entry/exit points.

This specific SKU includes:

- LED light engine producing c.1,000 lm with a nominal 4000°K colour temperature
- Prismatic glass lens
- Long and Narrow light distribution
- Smooth Grey (RAL7035)



PERFORMANCE

Drive Current from Driver:	350mA
Power:	12W
Fitting Current:	0.05A
Power Factor:	0.98
Fitting Inrush:	15A - 0.36ms
Number of Drivers:	1
1x Driver 1 Inrush:	15A - 0.36ms
Max Drivers per 16A Type B MCB:	23
Max Fittings per 16A Type B MCB:	23
Total Number of LEDs:	10
Minimum Dim Level:	20 %



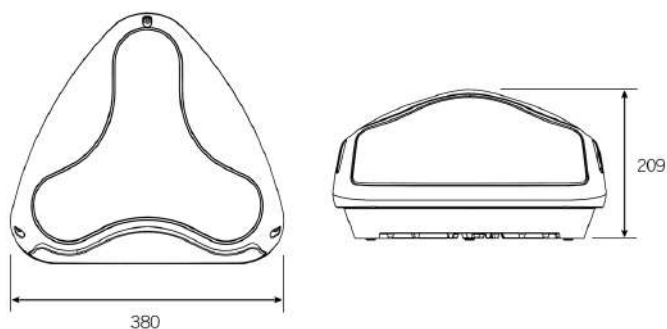
6.4Kg



[Installation Guide](#)

DIMENSIONS

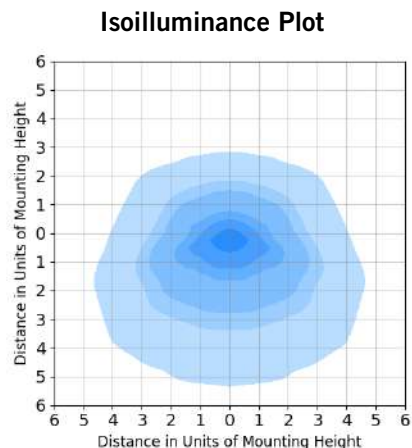
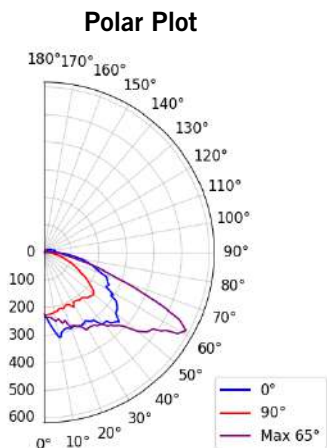
CIBSE TM66 - CEAM RATING



0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/ substantial progress to circularity	Excellent circularity

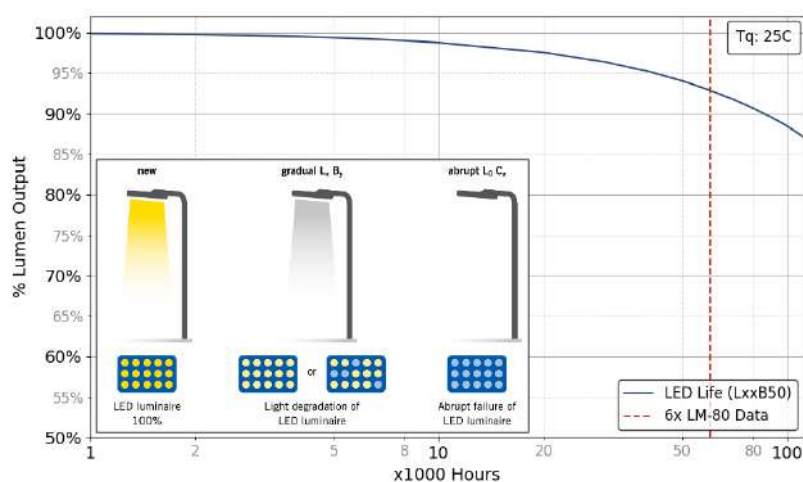
*Preliminary Rating

PHOTOMETRY



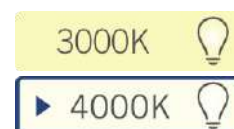
Lumens:	1,125
CCT:	4000K
CRI:	70
IES File:	DEW.LA014.PGL.NR
G-Class:	G*1 Imax @ $\geq 70^\circ$: 298 Imax @ $\geq 80^\circ$: 141 Imax @ $\geq 90^\circ$: 45

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

	C6	Smooth Grey (RAL7035)
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Custom Colour Available

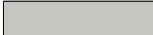
	RAL****	Customer specified colour
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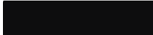
*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

	C1	Smooth White (RAL9016)
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	C4	Smooth Graphite (RAL7011)
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	C6	Smooth Grey (RAL7035)
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	C7	Textured Black (RAL9005)
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	C9	Metallic Silver (RAL9006)
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Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.

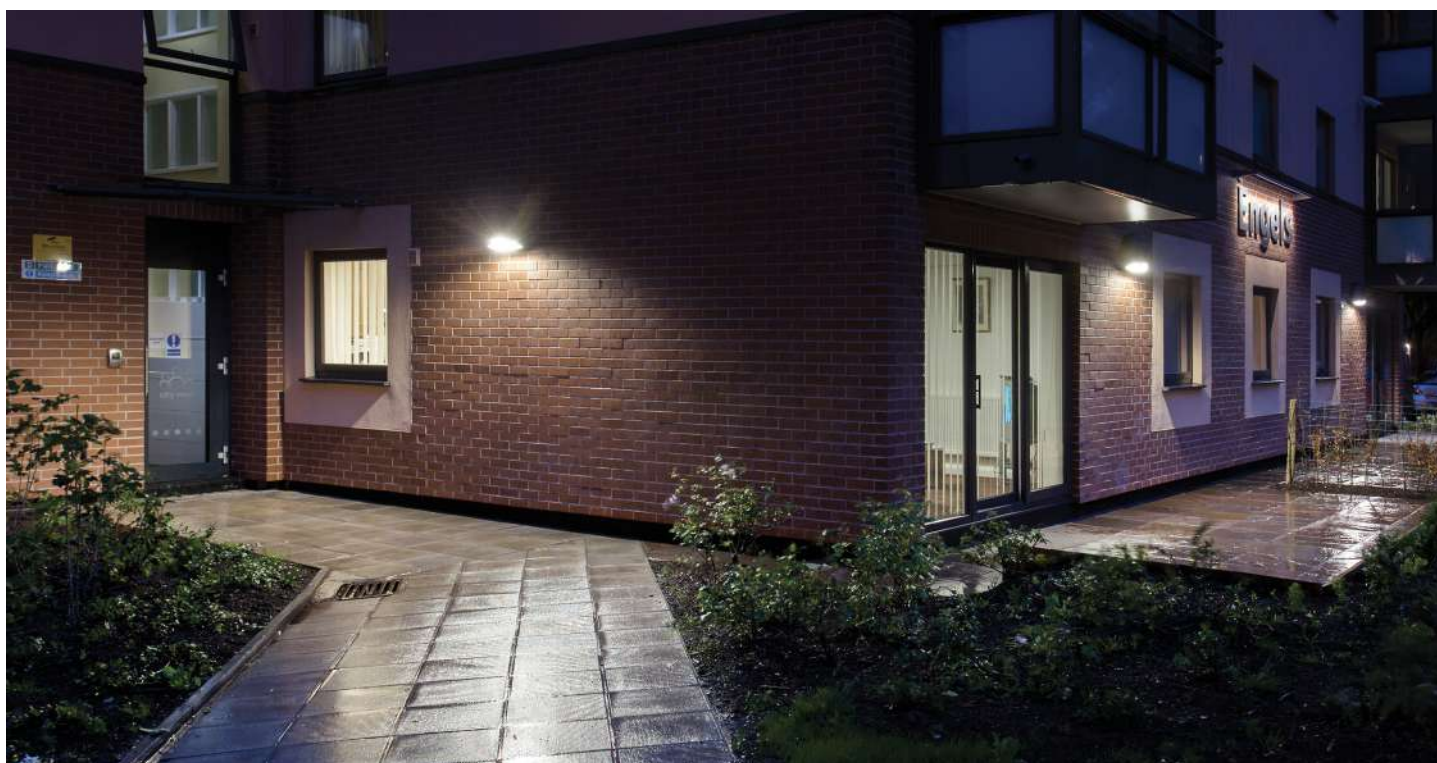
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> DATASHEET - EXTERNAL - DEW

DEW.LA014.PGL.NR.C6.EM3



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PRODUCT SPECIFICATION

www.holophane.co.uk **DEW HOLOPHANE WEBSITE**

Holophane Denver Elite Wall luminaire. Tri-lobular wall mounted luminaire manufactured from LM6 marine grade die-cast aluminium body, with integrated thermal management design. Optical arrangement with aluminium internal reflector and PrismaLED prismatic soda lime or clear glass lens dependent on optical distribution. Sealed to IP65 and suitable for wall mounting with rear, top, side and through wiring options via 20mm Ø knockout cable entry/exit points.

This specific SKU includes:

- LED light engine producing c.1,000 lm with a nominal 4000°K colour temperature
- Prismatic glass lens
- Long and Narrow light distribution
- Smooth Grey (RAL7035)
- Self-contained (self-test) 3hr maintained emergency battery and inverter



PERFORMANCE

Drive Current from Driver:	350mA
Power:	12W
Fitting Current:	0.05A
Power Factor:	0.98
Fitting Inrush:	15A - 0.36ms
Number of Drivers:	1
1x Driver 1 Inrush:	15A - 0.36ms
Max Drivers per 16A Type B MCB:	23
Max Fittings per 16A Type B MCB:	23
Total Number of LEDs:	10
Minimum Dim Level:	20 %

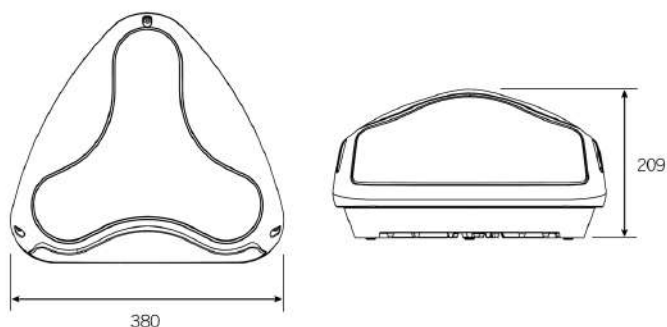


6.4Kg



[Installation Guide](#)

DIMENSIONS



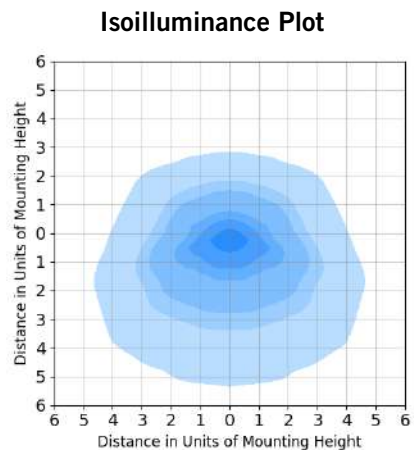
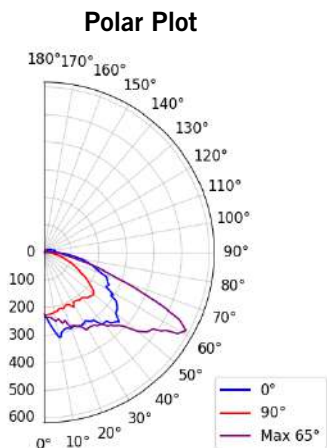
CIBSE TM66 - CEAM RATING



0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

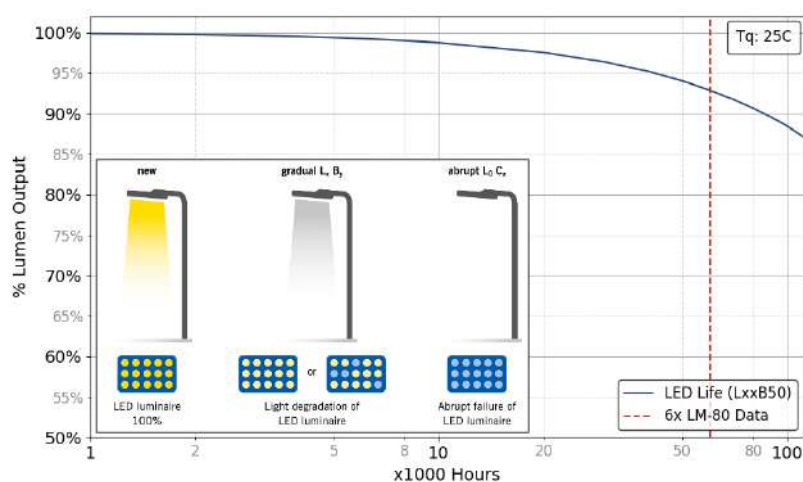
*Preliminary Rating

PHOTOMETRY



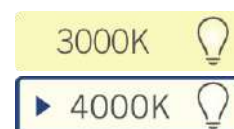
Lumens:	1,125
CCT:	4000K
CRI:	70
IES File:	DEW.LA014.PGL.NR
G-Class:	G*1 Imax @ $\geq 70^\circ$: 298 Imax @ $\geq 80^\circ$: 141 Imax @ $\geq 90^\circ$: 45

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

	C6	Smooth Grey (RAL7035)
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Custom Colour Available

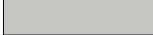
	RAL****	Customer specified colour
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*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

	C1	Smooth White (RAL9016)
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	C4	Smooth Graphite (RAL7011)
---	-----------	---------------------------

	C6	Smooth Grey (RAL7035)
---	-----------	-----------------------

	C7	Textured Black (RAL9005)
---	-----------	--------------------------

	C9	Metallic Silver (RAL9006)
---	-----------	---------------------------

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

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> DATASHEET - EXTERNAL - DSX1

DSX1.2.LA224.FW.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX1 HOLOPHANE WEBSITE

DSX1.2.LA224.FW.C6

Holophane D-Series 1 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 2
- LED light engine producing c.22,000 lm with a nominal 4000°K colour temperature
- Forward throw light distribution
- Smooth Grey (RAL7035)



HAWA.AU.GV6

Holophane D-Series wall bracket .

- Bracket galvanised and painted grey (RAL7035)

Please note that it is the responsibility of the installing contractor to confirm that the bracket offered within this quotation suits the application.

PERFORMANCE

Drive Current from Driver:	1,050mA
Power:	200W
Fitting Current:	0.9A
Power Factor:	0.98
Fitting Inrush:	106A - 0.3ms
Number of Drivers:	2
2x Driver 1 Inrush:	53A - 0.3ms
Max Drivers per 16A Type B MCB:	8
Max Fittings per 16A Type B MCB:	4
Total Number of LEDs:	30
Minimum Dim Level:	7 %
Optical Risk Group:	1



12.2Kg₂

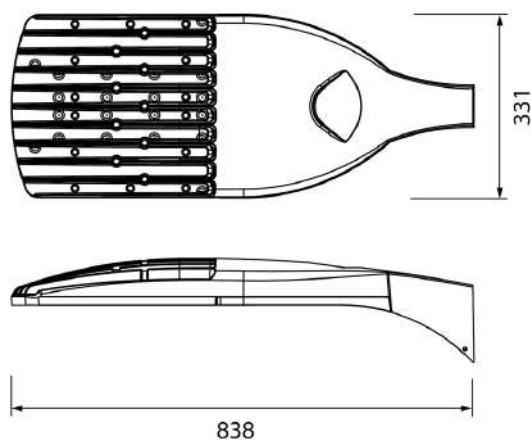


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

2.3*

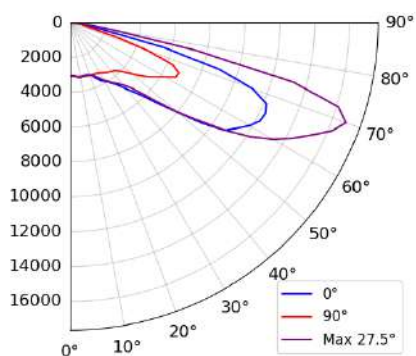
0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

*Preliminary Rating

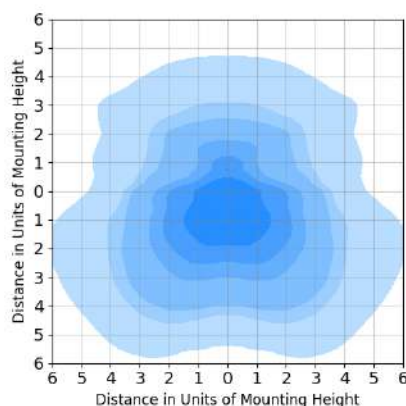
PHOTOMETRY



Polar Plot

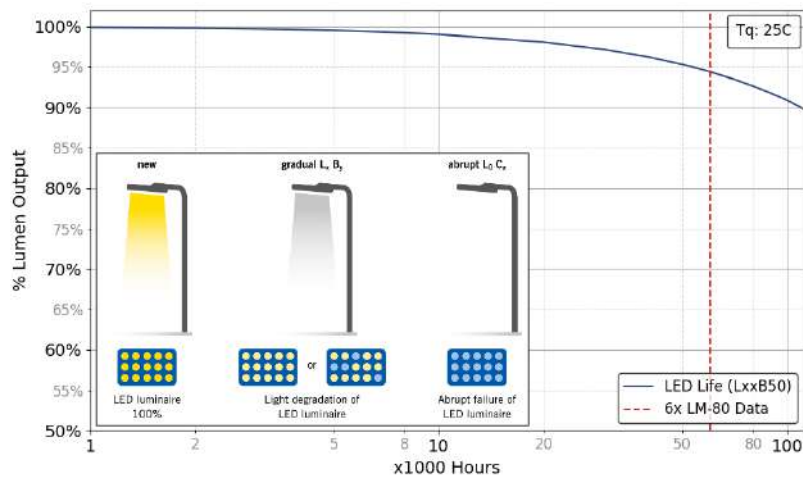


Isoilluminance Plot



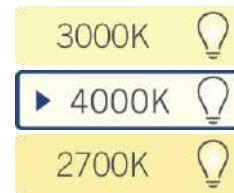
Lumens:	24,252
CCT:	4000K
CRI:	70
IES File:	DSX1.2.LA224.FW
G-Class:	G*2 Imax @ $\geq 70^\circ$: 693 Imax @ $\geq 80^\circ$: 118 Imax @ $\geq 90^\circ$: 0

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
-----------	-----------------------

Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

The specifications of the Holophane luminaires represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue, Datasheets 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.

> DATASHEET - AMENITY - DSX0

DSX0.1.LA084.AY.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX0 HOLOPHANE WEBSITE

DSX0.1.LA084.AY.C6

Holophane D-Series 0 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 1
- LED light engine producing c.8,000 lm with a nominal 4000°K colour temperature
- Asymmetric light distribution
- Smooth Grey (RAL7035)



DSX1B.6.1A.LMZ.GV

Holophane tubular base compartment column for use with DSX1 luminaires. 6 metre, Single head, For light & medium area wind zones (compliant to EN40).

- Bracket galvanised
- Direct embedment

PERFORMANCE

Drive Current from Driver:	990mA
Power:	64W
Fitting Current:	0.29A
Power Factor:	0.98
Fitting Inrush:	43A - 0.26ms
Number of Drivers:	1
1x Driver 1 Inrush:	43A - 0.26ms
Max Drivers per 16A Type B MCB:	10
Max Fittings per 16A Type B MCB:	10
Total Number of LEDs:	20
Minimum Dim Level:	10 %
Optical Risk Group:	1



8Kg₂

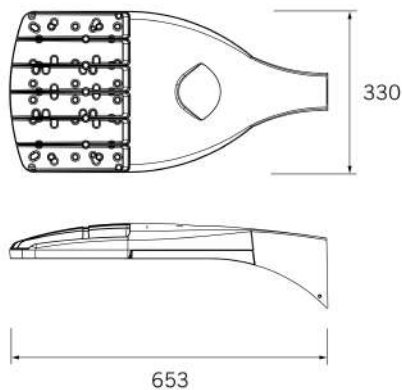


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

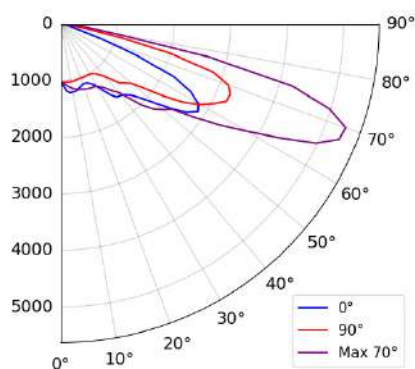
2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

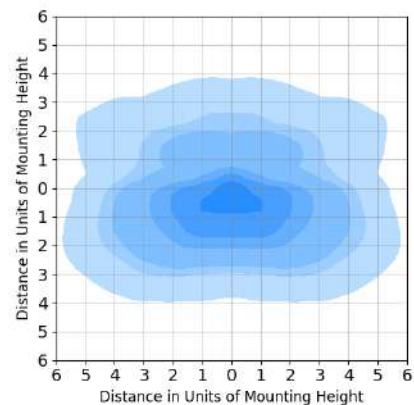
*Preliminary Rating

PHOTOMETRY [↓ IES FILE](#)

Polar Plot

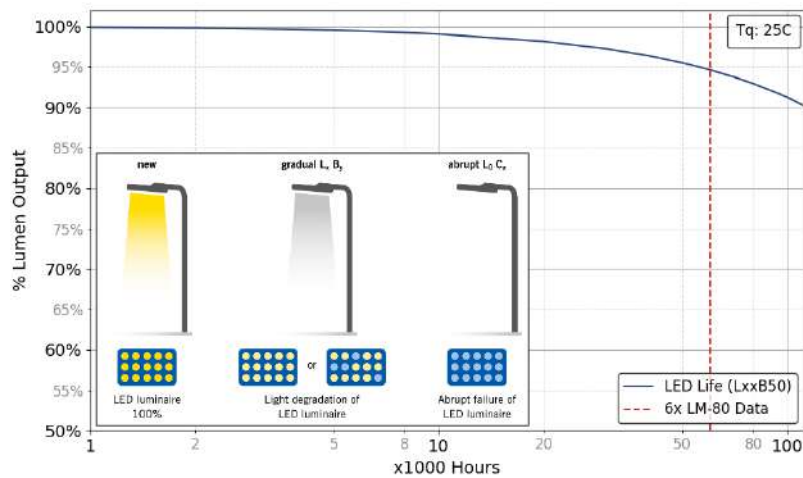


Isoilluminance Plot



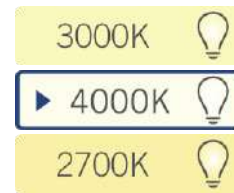
Lumens:	7,818
CCT:	4000K
CRI:	70
IES File:	DSX0.1.LA084.AY
G-Class:	G*2 Imax @ $\geq 70^\circ$: 687 Imax @ $\geq 80^\circ$: 127 Imax @ $\geq 90^\circ$: 0

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
-----------	-----------------------

Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

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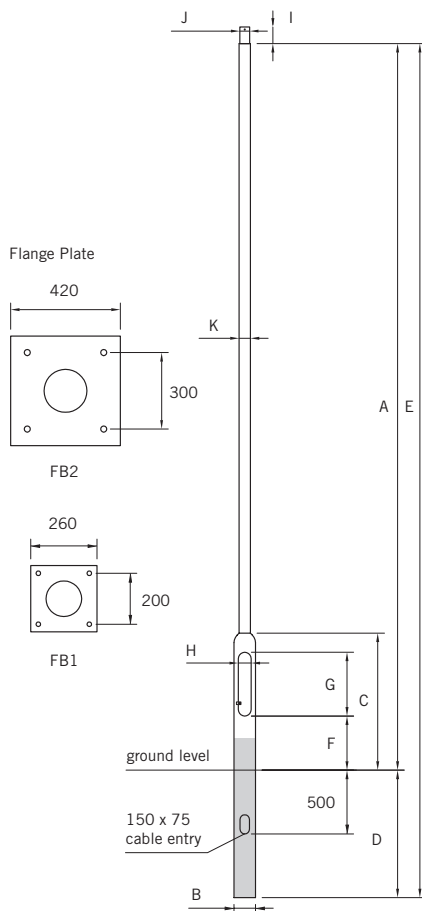
> DATASHEET

DSX1B.6.1A.LMZ.GV



Holophane products that are suitable

CityMax
Denver Elite pole
D-Series
Factor
Factor small
V-Max



	Nominal Height	Base Diameter*	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length*	Spigot Diameter*	Shaft Diameter*	Weight kg*	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
2.5m standard duty	2500	140	1075	800	3300	400	500	100	-	-	76	27	2100
3m standard duty	3000	140	1075	800	3800	400	500	100	-	-	76	30	4666
3.5m standard duty	3500	140	1075	800	4300	400	500	100	-	-	76	32	2100
4m standard duty	4000	140	1075	800	4800	400	500	100	-	-	76	34	6484
4.5m standard duty	4500	140	1075	800	5300	400	500	100	-	-	76	37	5108
5m standard duty	5000	140	1075	800	5800	400	500	100	-	-	76	39	6149
5.5m standard duty	5500	140	1075	1000	6500	400	500	100	-	-	76	44	6003
6m standard duty	6000	140	1075	1000	7000	400	500	100	-	-	76	46	5999
6m heavy duty	5700	168	1200	1000	6700	400	600	115	130	76	89	71	10404
8m standard duty	7700	168	1200	1200	8900	400	600	115	130	76	89	89	10072
8m heavy duty	7700	168	1300	1200	9000	500	600	115	250	101	114	107	15699
8m extra heavy duty	7700	194	1300	1200	9000	500	600	115	250	127	140	136	18973
10m standard duty	9700	168	1300	1500	11200	500	600	115	250	101	114	150	18067
10m heavy duty	9700	194	1300	1500	11200	500	600	115	250	127	140	168	23193
10m extra heavy duty	9700	194	1300	1500	11200	500	600	115	250	152	168	220	28317
12m standard duty	11700	194	1300	1700	13400	500	600	115	250	127	140	213	26251
12m heavy duty	11700	194	1300	1700	13400	500	600	115	250	127	168	260	40390

* Exclusion TBC

2.5-6m std Poles Flange Plate FB1 Bolts M18 x 400

8-12m std Poles Flange Plate FB2 Bolts M24 x 820

Flange Plate and Anchor Bolt information will be confirmed at time of order due to the necessity in ensuring the correct plate and Anchor Bolts are supplied.

Column type to be confirmed at time of order as this is based on luminaire weight, windage and geographical location.

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Buckinghamshire MK1 1JG
United Kingdom



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F Intl +44 (0)1908 363 789

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stepped steel - CityMax Large only post top

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
6m	6000	140	1075	1000	7000	400	500	115	-	-	-	46	5999
8m	7700	168	1300	1200	9000	500	600	115	100	76	114	107	15699
10m	9700	168	1300	1500	11200	500	600	115	100	76	114	150	18067
12m	11700	194	1300	1700	13400	500	600	115	100	76	140	168	26251
15m	14700	194	1200	2000	17000	400	600	115	100	76	168	306	40300

twin head

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
8m	7400	194	1200	1200	8800	400	600	115	200	127	139.7	125	22610
10m	9400	194	1200	1500	11100	400	600	115	200	152.4	168.3	208	39131
12m	11400	194	2500	1700	13300	1000	600	115	200	152.4	168.3	295	41585

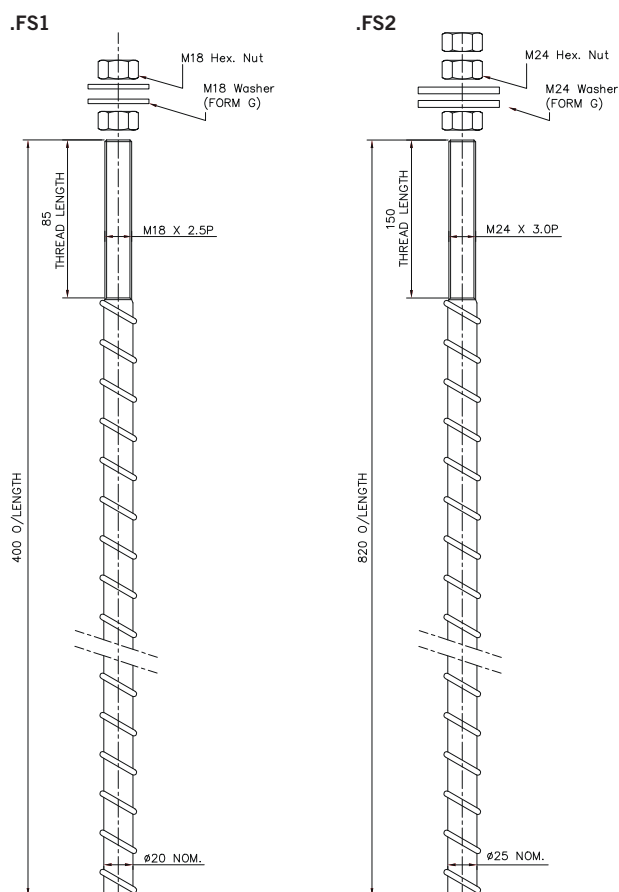
Note: For Terrain Category 2 locations LMZ, HVZ & HEZ

For columns supplied with optional flange base Holophane offers two types of foundation bolts.

Note: The material used for the bolts is Fe E500 grade steel, with yield strength 500 N/mm² and minimum UTS 550 N/mm².

HEL.FS1 M18 Bolts (FS1) x 400 mm long

HEL.FS2 M24 Bolts (FS2) x 820 mm long

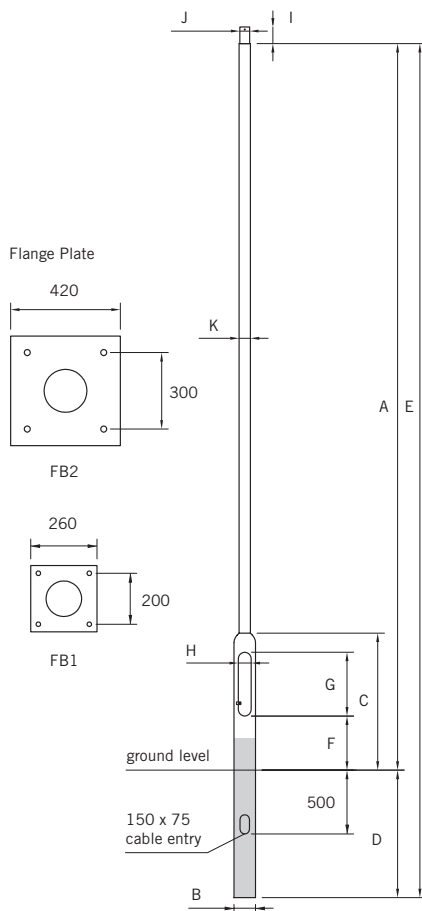


DSX1B.6.2A.LMZ.GV



Holophane products
that are suitable

CityMax
Denver Elite pole
D-Series
Factor
Factor small
V-Max



	Nominal Height	Base Diameter*	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length*	Spigot Diameter*	Shaft Diameter*	Weight kg*	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
2.5m standard duty	2500	140	1075	800	3300	400	500	100	-	-	76	27	2100
3m standard duty	3000	140	1075	800	3800	400	500	100	-	-	76	30	4666
3.5m standard duty	3500	140	1075	800	4300	400	500	100	-	-	76	32	2100
4m standard duty	4000	140	1075	800	4800	400	500	100	-	-	76	34	6484
4.5m standard duty	4500	140	1075	800	5300	400	500	100	-	-	76	37	5108
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5.5m standard duty	5500	140	1075	1000	6500	400	500	100	-	-	76	44	6003
6m standard duty	6000	140	1075	1000	7000	400	500	100	-	-	76	46	5999
6m heavy duty	5700	168	1200	1000	6700	400	600	115	130	76	89	71	10404
8m standard duty	7700	168	1200	1200	8900	400	600	115	130	76	89	89	10072
8m heavy duty	7700	168	1300	1200	9000	500	600	115	250	101	114	107	15699
8m extra heavy duty	7700	194	1300	1200	9000	500	600	115	250	127	140	136	18973
10m standard duty	9700	168	1300	1500	11200	500	600	115	250	101	114	150	18067
10m heavy duty	9700	194	1300	1500	11200	500	600	115	250	127	140	168	23193
10m extra heavy duty	9700	194	1300	1500	11200	500	600	115	250	152	168	220	28317
12m standard duty	11700	194	1300	1700	13400	500	600	115	250	127	140	213	26251
12m heavy duty	11700	194	1300	1700	13400	500	600	115	250	127	168	260	40390

* Exclusion TBC

2.5-6m std Poles	Flange Plate FB1	Bolts	M18 x 400
8-9m std Poles	Flange Plate FB2	T + 44	(0) 1908 64

Flange Plate and Anchor Bolt information will be confirmed at time of order due to the necessity in ensuring the correct plate and Anchor Bolts are supplied.

the correct plate and Anchor Bolts are supplied.

Column type to be confirmed at time of order as this is based on

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Bond Avenue, Milton Keynes
Buckinghamshire MK1 1JG
United Kingdom



F +44 (0)1908 367 618

stepped steel - CityMax Large only post top

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
6m	6000	140	1075	1000	7000	400	500	115	-	-	-	46	5999
8m	7700	168	1300	1200	9000	500	600	115	100	76	114	107	15699
10m	9700	168	1300	1500	11200	500	600	115	100	76	114	150	18067
12m	11700	194	1300	1700	13400	500	600	115	100	76	140	168	26251
15m	14700	194	1200	2000	17000	400	600	115	100	76	168	306	40300

twin head

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
8m	7400	194	1200	1200	8800	400	600	115	200	127	139.7	125	22610
10m	9400	194	1200	1500	11100	400	600	115	200	152.4	168.3	208	39131
12m	11400	194	2500	1700	13300	1000	600	115	200	152.4	168.3	295	41585

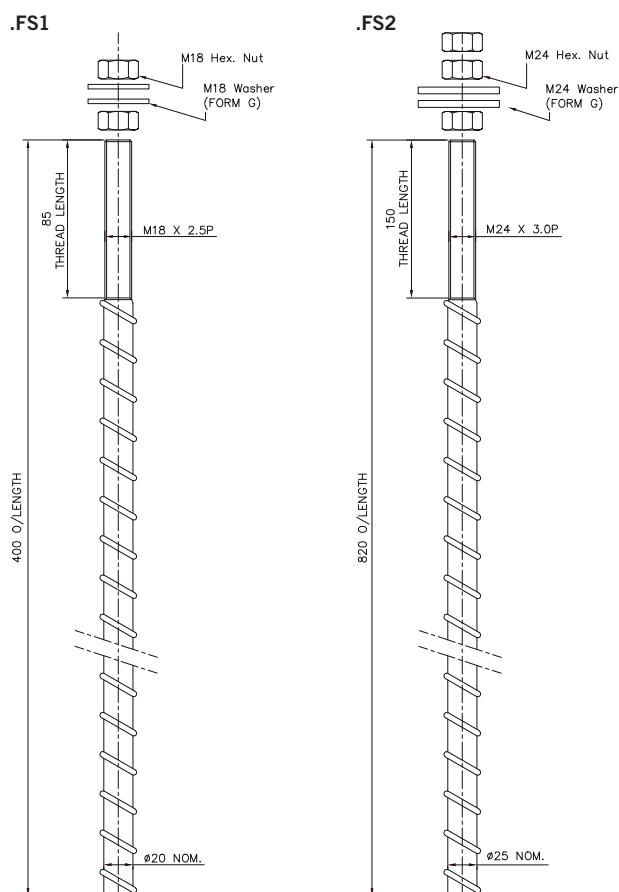
Note: For Terrain Category 2 locations LMZ, HVZ & HEZ

For columns supplied with optional flange base Holophane offers two types of foundation bolts.

Note: The material used for the bolts is Fe E500 grade steel, with yield strength 500 N/mm2 and minimum UTS 550 N/mm2.

HEL.FS1 M18 Bolts (FS1) x 400 mm long

HEL.FS2 M24 Bolts (FS2) x 820 mm long



> DATASHEET - AMENITY - DSX0

DSX0.1.LA084.FW.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX0 HOLOPHANE WEBSITE

DSX0.1.LA084.FW.C6

Holophane D-Series 0 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 1
- LED light engine producing c.8,000 lm with a nominal 4000°K colour temperature
- Forward throw light distribution
- Smooth Grey (RAL7035)



DSX1B.6.1A.LMZ.GV

Holophane tubular base compartment column for use with DSX1 luminaires. 6 metre, Single head, For light & medium area wind zones (compliant to EN40).

- Bracket galvanised
- Direct embedment

PERFORMANCE

Drive Current from Driver:	990mA
Power:	64W
Fitting Current:	0.29A
Power Factor:	0.98
Fitting Inrush:	43A - 0.26ms
Number of Drivers:	1
1x Driver 1 Inrush:	43A - 0.26ms
Max Drivers per 16A Type B MCB:	10
Max Fittings per 16A Type B MCB:	10
Total Number of LEDs:	20
Minimum Dim Level:	10 %
Optical Risk Group:	1



8Kg₂

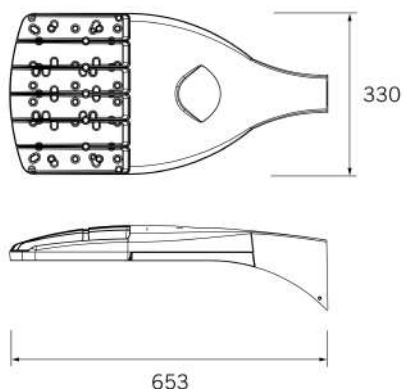


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

2.3*

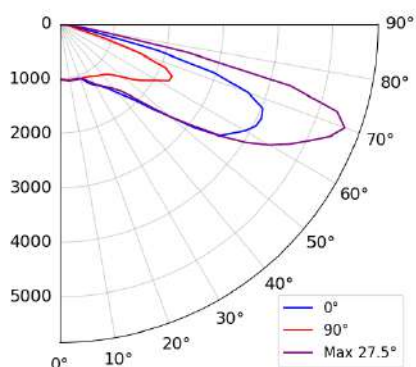
0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

*Preliminary Rating

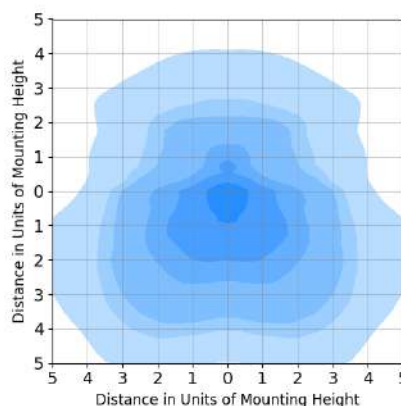
PHOTOMETRY

↓ IES FILE

Polar Plot

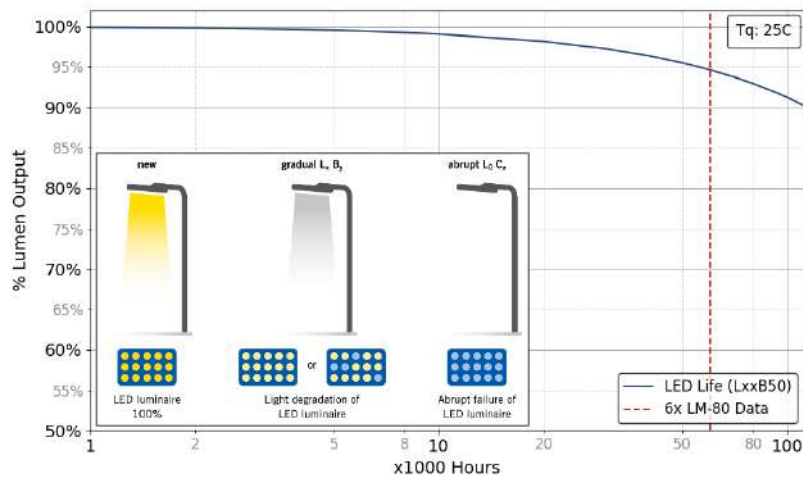


Isoilluminance Plot



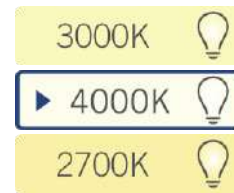
Lumens:	8,048
CCT:	4000K
CRI:	70
IES File:	DSX0.1.LA084.FW
G-Class:	G*2 Imax @ ≥ 70°: 693 Imax @ ≥ 80°: 118 Imax @ ≥ 90°: 0

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
-----------	-----------------------

Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

The specifications of the Holophane luminaires represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue, Datasheets 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.

> DATASHEET - EXTERNAL - DSX1

DSX1.2.LA224.AY.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX1 HOLOPHANE WEBSITE

DSX1.2.LA224.AY.C6

Holophane D-Series 1 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 2
- LED light engine producing c.22,000 lm with a nominal 4000°K colour temperature
- Asymmetric light distribution
- Smooth Grey (RAL7035)



DSX1B.8.2A.LMZ.GV

Holophane tubular base compartment column for use with DSX1 Luminaires. 8 metre, Twin head, For light & medium area wind zones (compliant to EN40).

- Bracket galvanised
- Direct embedment

PERFORMANCE

Drive Current from Driver:	1,050mA
Power:	200W
Fitting Current:	0.9A
Power Factor:	0.98
Fitting Inrush:	106A - 0.3ms
Number of Drivers:	2
2x Driver 1 Inrush:	53A - 0.3ms
Max Drivers per 16A Type B MCB:	8
Max Fittings per 16A Type B MCB:	4
Total Number of LEDs:	30
Minimum Dim Level:	7 %
Optical Risk Group:	1



12.2Kg₂

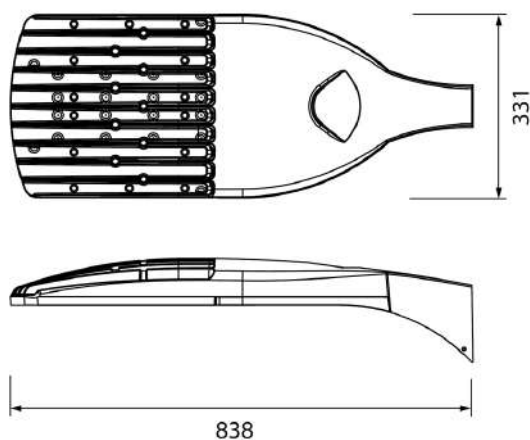


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

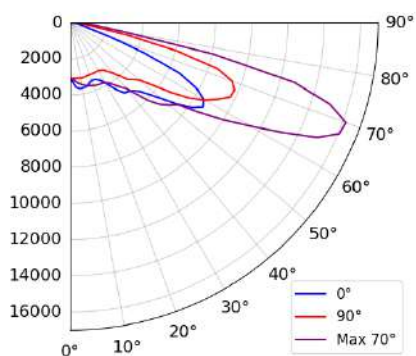
2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

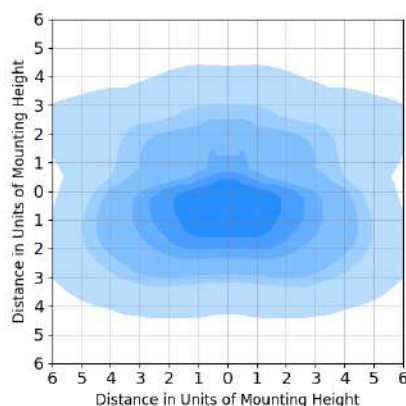
*Preliminary Rating

PHOTOMETRY [↓ IES FILE](#)

Polar Plot

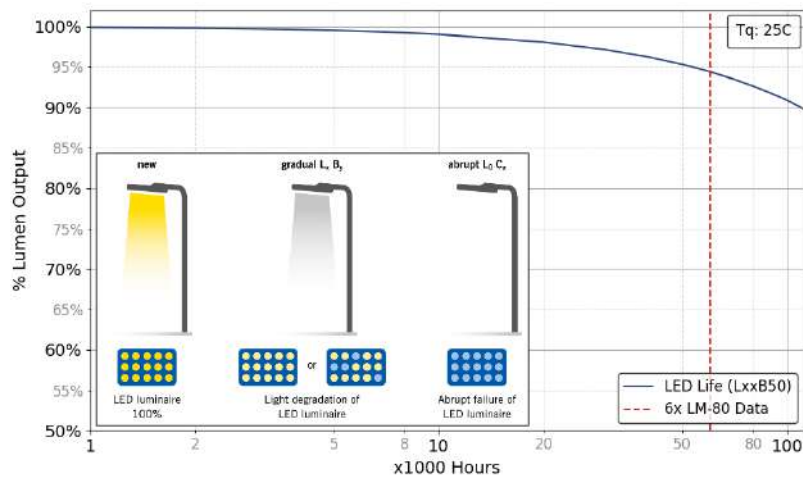


Isoilluminance Plot



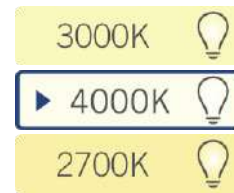
Lumens:	23,558
CCT:	4000K
CRI:	70
IES File:	DSX1.2.LA224.AY
G-Class:	G*2 Imax @ $\geq 70^\circ$: 687 Imax @ $\geq 80^\circ$: 127 Imax @ $\geq 90^\circ$: 0

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
-----------	-----------------------

Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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stepped steel - CityMax Large only post top

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
6m	6000	140	1075	1000	7000	400	500	115	-	-	-	46	5999
8m	7700	168	1300	1200	9000	500	600	115	100	76	114	107	15699
10m	9700	168	1300	1500	11200	500	600	115	100	76	114	150	18067
12m	11700	194	1300	1700	13400	500	600	115	100	76	140	168	26251
15m	14700	194	1200	2000	17000	400	600	115	100	76	168	306	40300

twin head

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	A	B	C	D	E	F	G	H	I	J	K		
8m	7400	194	1200	1200	8800	400	600	115	200	127	139.7	125	22610
10m	9400	194	1200	1500	11100	400	600	115	200	152.4	168.3	208	39131
12m	11400	194	2500	1700	13300	1000	600	115	200	152.4	168.3	295	41585

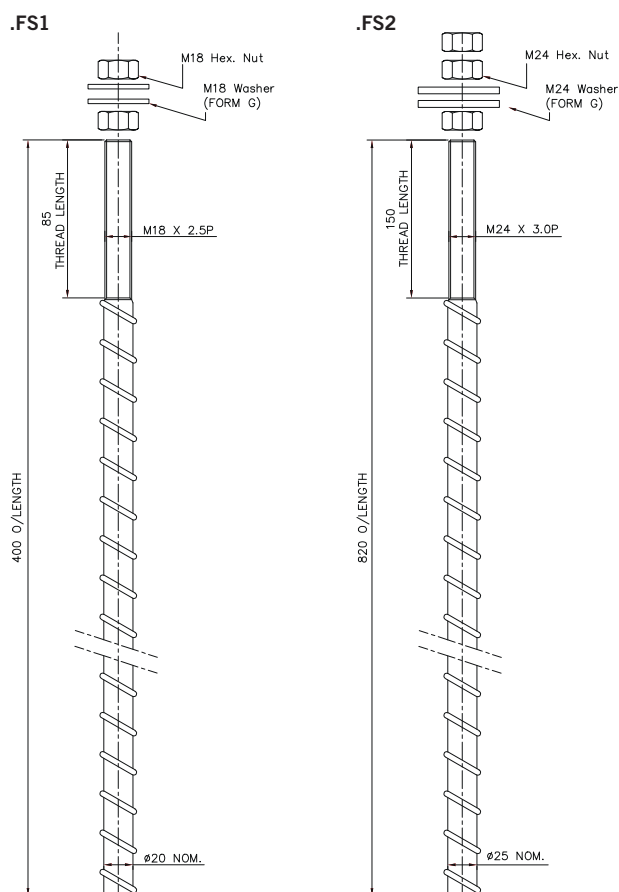
Note: For Terrain Category 2 locations LMZ, HVZ & HEZ

For columns supplied with optional flange base Holophane offers two types of foundation bolts.

Note: The material used for the bolts is Fe E500 grade steel, with yield strength 500 N/mm2 and minimum UTS 550 N/mm2.

HEL.FS1 M18 Bolts (FS1) x 400 mm long

HEL.FS2 M24 Bolts (FS2) x 820 mm long



> DATASHEET - AMENITY - DSX0

DSX0.1.LA034.NR.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX0 HOLOPHANE WEBSITE

DSX0.1.LA034.NR.C6

Holophane D-Series 0 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 1
- LED light engine producing c.3,000 lm with a nominal 4000K colour temperature
- Long and Narrow light distribution
- Smooth Grey (RAL7035)



DSX1B.6.1A.LMZ.GV

Holophane tubular base compartment column for use with DSX1 Luminaires. 6 metre, Single head, For light & medium area wind zones (compliant to EN40).

- Bracket galvanised
- Direct embedment

PERFORMANCE

Drive Current from Driver:	650mA
Power:	21W
Fitting Current:	0.09A
Power Factor:	0.96
Fitting Inrush:	15A - 0.295ms
Number of Drivers:	1
1x Driver 1 Inrush:	15A - 0.295ms
Max Drivers per 16A Type B MCB:	29
Max Fittings per 16A Type B MCB:	29
Total Number of LEDs:	10
Minimum Dim Level:	8 %
Optical Risk Group:	1



8Kg₂

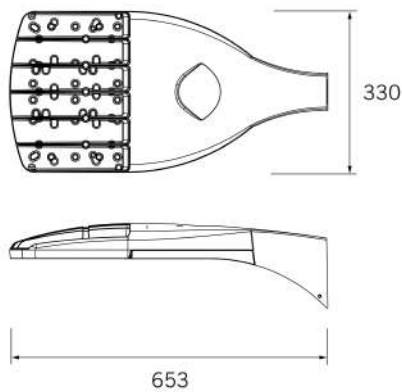


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

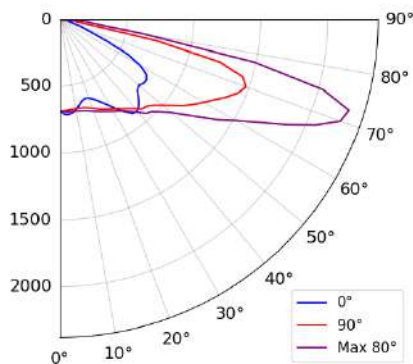
2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

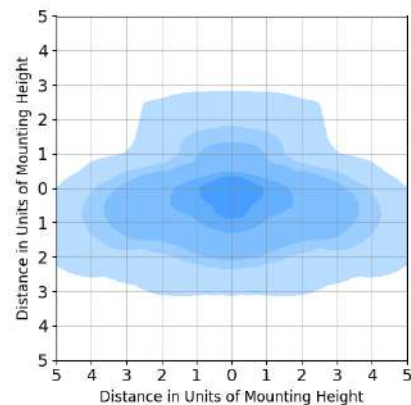
*Preliminary Rating

PHOTOMETRY [↓ IES FILE](#)

Polar Plot

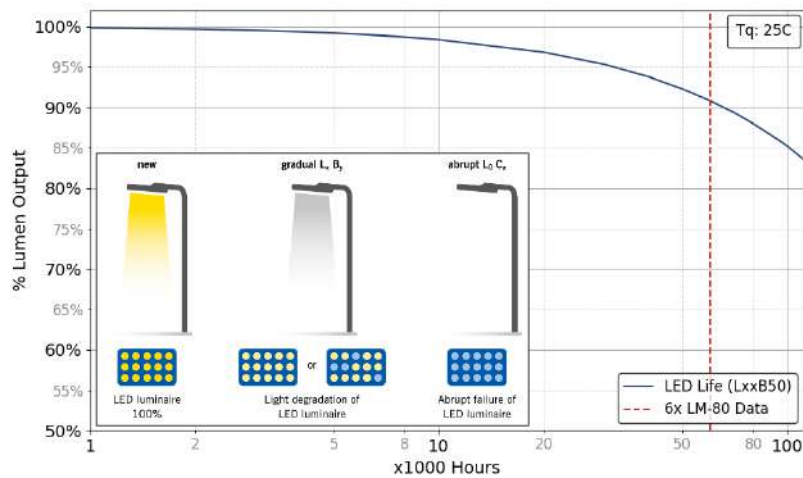


Isoilluminance Plot



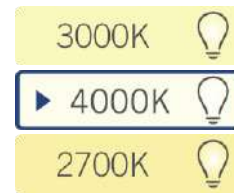
Lumens:	2,961
CCT:	4000K
CRI:	70
IES File:	DSX0.1.LA034.NR

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
-----------	-----------------------

Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

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> DATASHEET

TBHF.POL 1.7026AR4030GL



POLAR 1/AR

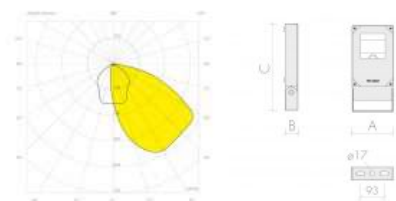
Mod	AR	Insulation class	Class I
Material	Silver oxidized drawn aluminum body, galvanized bracket, transparent tempered glass.	Optics	55° asymmetric beam matt satin aluminium reflector
Installation	Luminaire suitable for ground, ceiling, wall, 60mm pole installation.	Protection index	IP66
Impact degree	IK08	Ambient temperature (Ta)	-25 / +45 °C
Power supply	220-240Vac 50/60Hz	Photobiological safety class	risk group: Exempt
Trademarks and certifications	CE / UNI EN 60598-1:2015		
Luminous flux maintenance	L80-B20 (50.000h)-L80-B50 (75.000h)		
Beam angle	55°		

PERFORMANCE

W tot.	N°led	LUMEN LED	LUMEN OUTPUT	Lm/W	A(mm)	B(mm)	C(mm)	Kg
30	1	4518	3415	114	155	45	325	2
40	1	6763	5111	128	155	45	325	2
50	1	8459	6392	128	155	45	325	2
68	1	9895	7555	111	155	45	325	2

The luminous flux and the total power absorbed by the system have a tolerance of $\pm 10\%$ with respect to the indicated values.

• 3000K - CRI80 = -4,5% lm • 3000K - CRI90 = -19,9% lm • 4000K - CRI80 = standard • 4000K - CRI90= -13,73% lm



> DATASHEET - AMENITY - DSX0

DSX0.1.LA064.NR.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION



DSX0 HOLOPHANE WEBSITE

DSX0.1.LA064.NR.C6

Holophane D-Series 0 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 1
- LED light engine producing c.6,000 lm with a nominal 4000K colour temperature
- Long and Narrow light distribution
- Smooth Grey (RAL7035)



DSX1B.8.1A.LMZ.GV

Holophane tubular base compartment column for use with DSX1 Luminaires. 8 metre, Single head, For light & medium area wind zones (compliant to EN40).

- Bracket galvanised
- Direct embedment

PERFORMANCE

Drive Current from Driver:	700mA
Power:	45W
Fitting Current:	0.2A
Power Factor:	0.97
Fitting Inrush:	43A - 0.26ms
Number of Drivers:	1
1x Driver 1 Inrush:	43A - 0.26ms
Max Drivers per 16A Type B MCB:	10
Max Fittings per 16A Type B MCB:	10
Total Number of LEDs:	20
Minimum Dim Level:	14 %
Optical Risk Group:	1



8Kg₂

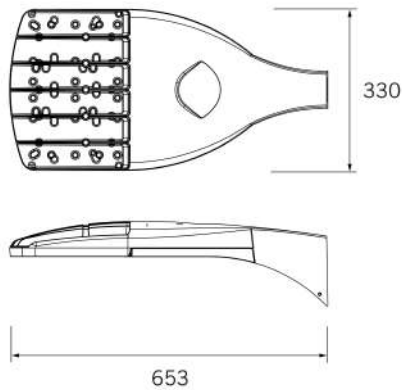


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

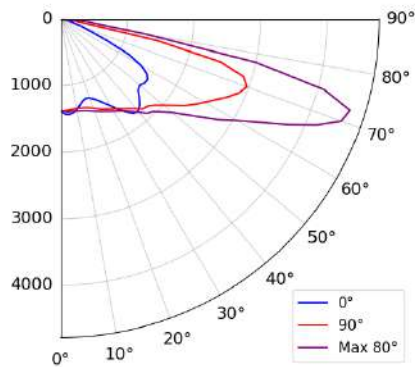
2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

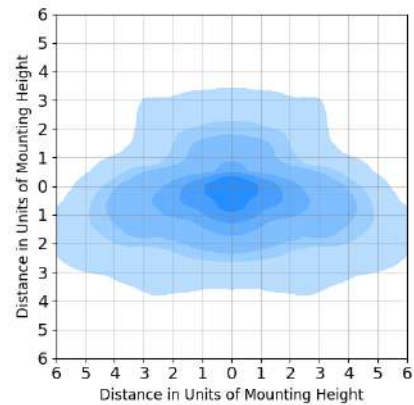
*Preliminary Rating

PHOTOMETRY [↓ IES FILE](#)

Polar Plot

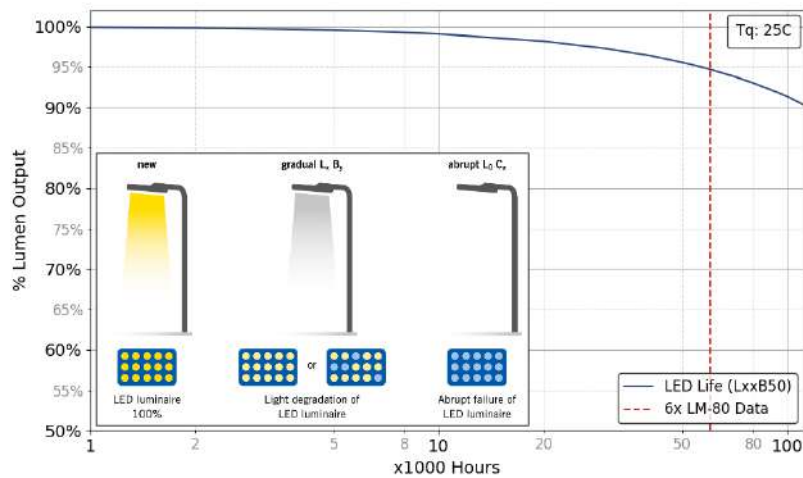


Isoilluminance Plot



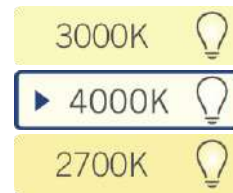
Lumens:	5,956
CCT:	4000K
CRI:	70
IES File:	DSX0.1.LA064.NR

LLMF GRAPH



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOUR TEMPERATURES



COLOURS

Selected Colour

C6	Smooth Grey (RAL7035)
-----------	-----------------------

Custom Colour Available

RAL****	Customer specified colour
----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

C1	Smooth White (RAL9016)
C4	Smooth Graphite (RAL7011)
C6	Smooth Grey (RAL7035)
C7	Textured Black (RAL9005)
C9	Metallic Silver (RAL9006)

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

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> DATASHEET

DSX 1.NCPC.2.LA084.AY.C6.Y179



Product image may not represent the final configuration stated above.



This is a bespoke product configuration. The performance data, dimensions and photometry included on this Datasheet are for a standard configured product only and may differ to the specification outlined below.

PRODUCT SPECIFICATION



DSX1 HOLOPHANE WEBSITE

Holophane D-Series 1 luminaire. Single-piece die-cast aluminium housing conforming to EN1706 AC-46500, with integral heat sink fins to optimise thermal management. LED light engine modules are IP66 with individual PMMA lenses. Housing sealed to IP65 via hinged access door (two captive fixing screws). Installation via bespoke Holophane mounting feature for quick and easy installation. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA).

This specific SKU includes:

- Series 2
- LED light engine producing c.8,000 lm with a nominal 4000°K colour temperature
- Asymmetric light distribution
- Smooth Grey (RAL7035)
- Complete with integral electronic driver(s), 3 hour maintained emergency self-test converter and 3 cell NiCd battery pack suitable for 230/240V 50Hz AC mains supply. Producing 600 Lm from a single 30LED board.(DSX1 only)

Please Note:

This product shall be risk assessed by Holophane Europe's Laboratory and tested in accordance with all applicable European standards and directives associated to luminaires. Holophane reserves the right not to supply.



PERFORMANCE

Fitting Inrush:	46A - 0.25ms
Number of Drivers:	1
1x Driver 1 Inrush:	46A - 0.25ms
Max Drivers per 16A Type B MCB:	11
Max Fittings per 16A Type B MCB:	11
Total Number of LEDs:	30
Optical Risk Group:	1



12.2Kg₂

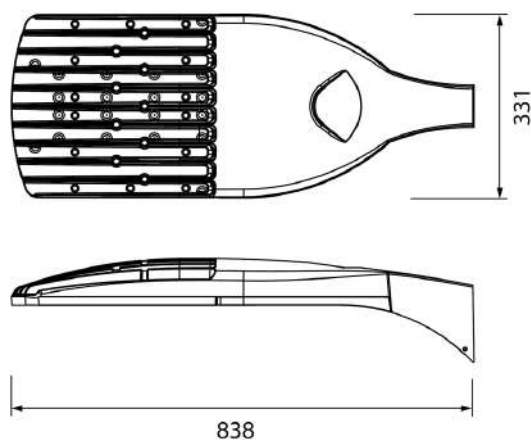


0.09M



[Installation Guide](#)

DIMENSIONS



CIBSE TM66 - CEAM RATING

2.3*

0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/substantial progress to circularity	Excellent circularity

*Preliminary Rating

COLOUR TEMPERATURES

3000K	
4000K	
2700K	

COLOURS

Selected Colour

	C6	Smooth Grey (RAL7035)
--	-----------	-----------------------

Custom Colour Available

	RAL****	Customer specified colour
--	----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

	C1	Smooth White (RAL9016)
	C4	Smooth Graphite (RAL7011)
	C6	Smooth Grey (RAL7035)
	C7	Textured Black (RAL9005)
	C9	Metallic Silver (RAL9006)

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

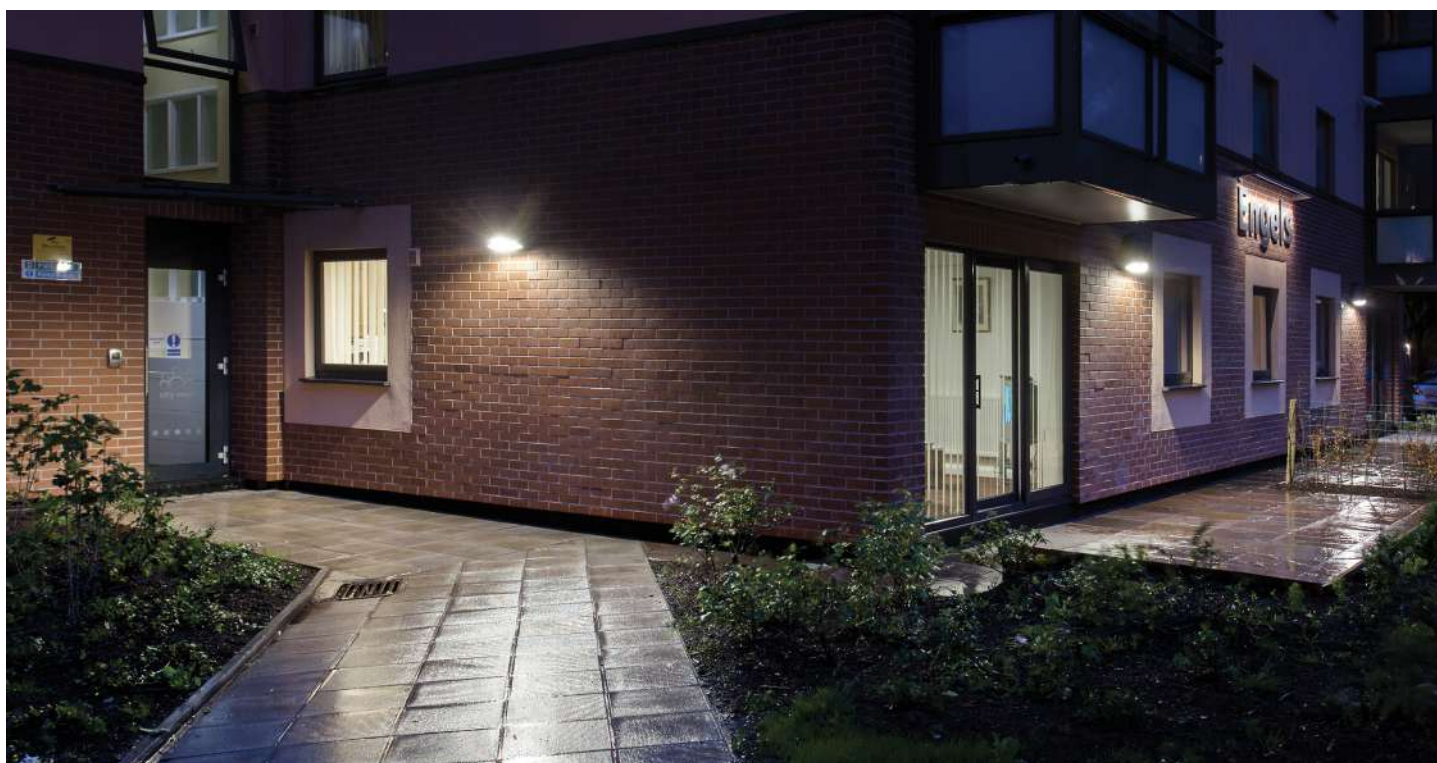
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> DATASHEET - EXTERNAL - DEW

DEW.LA024.CGL.AY.C6



Product image may not represent the final configuration stated above.



PRODUCT SPECIFICATION

 [DEW HOLOPHANE WEBSITE](https://www.holophane.co.uk)

Holophane Denver Elite Wall luminaire. Tri-lobular wall mounted luminaire manufactured from LM6 marine grade die-cast aluminium body, with integrated thermal management design. Optical arrangement with aluminium internal reflector and PrismaLED prismatic soda lime or clear glass lens dependent on optical distribution. Sealed to IP65 and suitable for wall mounting with rear, top, side and through wiring options via 20mm Ø knockout cable entry/exit points.

This specific SKU includes:

- LED light engine producing c.2,000 lm with a nominal 4000°K colour temperature
- Clear glass lens
- Asymmetric light distribution
- Smooth Grey (RAL7035)



PERFORMANCE

Drive Current from Driver:	700mA
Power:	23.2W
Fitting Current:	0.1A
Power Factor:	0.99
Fitting Inrush:	15A - 0.36ms
Number of Drivers:	1
1x Driver 1 Inrush:	15A - 0.36ms
Max Drivers per 16A Type B MCB:	23
Max Fittings per 16A Type B MCB:	23
Total Number of LEDs:	10
Minimum Dim Level:	10 %



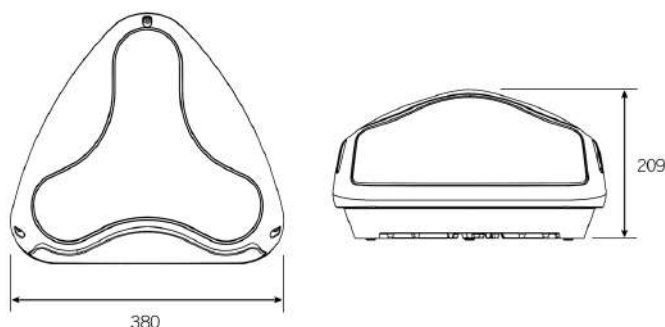
6.4Kg



[Installation Guide](#)

DIMENSIONS

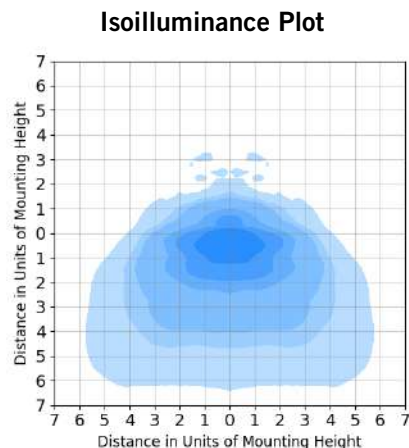
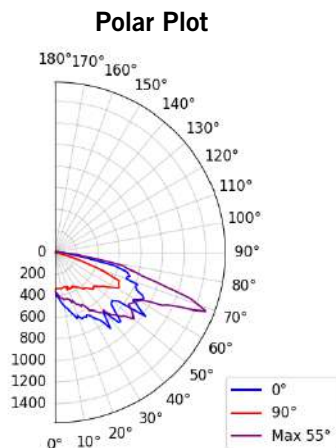
CIBSE TM66 - CEAM RATING



0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/ substantial progress to circularity	Excellent circularity

*Preliminary Rating

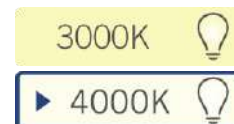
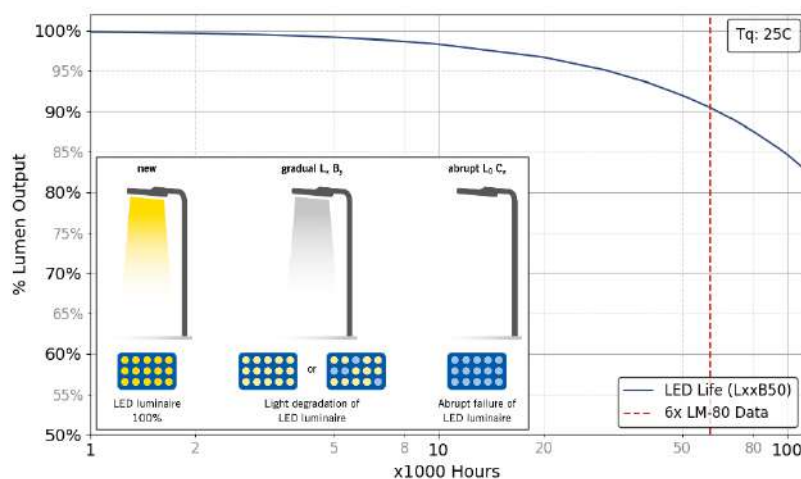
PHOTOMETRY



Lumens:	2,489
CCT:	4000K
CRI:	70
IES File:	DEW.LA024.CGL.AY

LLMF GRAPH

COLOUR TEMPERATURES



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOURS

Selected Colour

	C6	Smooth Grey (RAL7035)
--	-----------	-----------------------

Custom Colour Available

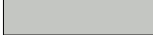
	RAL****	Customer specified colour
--	----------------	---------------------------

*Choosing a custom colour may increase the cost and lead time.

Standard Colours Available

	C1	Smooth White (RAL9016)
---	-----------	------------------------

	C4	Smooth Graphite (RAL7011)
---	-----------	---------------------------

	C6	Smooth Grey (RAL7035)
---	-----------	-----------------------

	C7	Textured Black (RAL9005)
---	-----------	--------------------------

	C9	Metallic Silver (RAL9006)
---	-----------	---------------------------

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BREEAM P155-2267 - DEARNE VALLEY PARKWAY FIRETHORN PHASE 3

Total Lumens

714,229

Installation ULR

0.31%

Complies with environmental zones

E2 & E3 & E4

Total Upward Lumens

2,235.48

CATALOGUE	ITEM REF	QUANTITY	LUMENS	POWER (W)	LLM/TcW	TOTAL LUMENS	TILT (°)	ULOR (%)	TOTAL UPWARD LUMENS
DSX0.1.LA064.AY.C6	X1	1	5,823	45	129	5,823	-	0	0
DSX1.2.LA164.FW.C6	X2	6	17,044	131	130	102,264	-	0	0
DEW.LA014.PGL.NR.C6	X3	18	1,125	12	94	20,250	-	5.2	1,053
DEW.LA014.PGL.NR.C6.EM3	X3/E	18	1,125	12	94	20,250	-	5.2	1,053
DSX1.2.LA224.FW.C6	X4	8	24,252	200	121	194,016	-	0	0
DSX0.1.LA084.AY.C6	X5	7	7,802	64	122	54,614	-	0	0
DSX0.1.LA084.AY.C6	X6	10	7,802	64	122	78,020	-	0	0
DSX0.1.LA084.FW.C6	X7	12	8,023	64	125	96,276	-	0	0
DSX1.2.LA224.AY.C6	X8	4	23,558	200	118	94,232	-	0	0
DSX0.1.LA034.NR.C6	X9	2	2,961	21	141	5,922	-	0	0
TBHF.POL1.7026AR4030GL	X10	38	0	0	0	0	-	0	0
DSX0.1.LA064.NR.C6	X11	5	5,956	45	132	29,780	-	0	0
DSX1.NCPC.2.LA084.AY.C6.Y179	X12/E	1	0	0	0	0	-	0	0
DSX0.1.LA084.AY.C6	X5T	1	7,802	64	122	7,802	-	0	0
DEW.LA024.CGL.AY.C6	X13	2	2,490	23	107	4,980	-	2.6	129.48

Required LLM/TcW: 70

Permissible ULR %: E0: 0% E1: 0% E2: up to 2.5% E3: up to 5% E4: up to 15%

Environmental zone level is based solely on the ULR.

The information provided is based on the latest the Institute of Lighting Professionals (ILP) Guidance notes for the reduction of obtrusive light and the latest BREEAM UK construction manual 2018. This assumes that all external lighting (except safety and security lighting) can automatically be switched off between 23:00 and 07:00. If safety or security lighting is required to be on during these hours, then it should comply with the levels recommended in the ILP guidance notes.

All values shown are the result of calculations derived from product specific photometry of luminaires positioned in a fixed relationship to each other and the statistical zone. In practice the values may vary due to tolerances in column installation, luminaire orientation, and surface reflectance, the substitution of alternative luminaires will not produce comparable results.

SUMMARY

P155-2267 - DEARNE VALLEY PARKWAY FIRETHORN PHASE 3

Line No.	Item Ref	Quantity	Catalogue
LUMINAIRE AND BRACKET PACKAGE			
10	X1	1	DSX0.1.LA064.AY.C6
11	X1	1	HAWA.AU.GV6
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
20	X2	6	DSX1.2.LA164.FW.C6
21	X2	6	DSX1B.8.1A.LMZ.GV
LUMINAIRE			
30	X3	18	DEW.LA014.PGL.NR.C6
LUMINAIRE			
40	X3/E	18	DEW.LA014.PGL.NR.C6.EM3
LUMINAIRE AND BRACKET PACKAGE			
50	X4	8	DSX1.2.LA224.FW.C6
51	X4	8	HAWA.AU.GV6
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
60	X5	7	DSX0.1.LA084.AY.C6
61	X5	7	DSX1B.6.1A.LMZ.GV
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
70	X6	10	DSX0.1.LA084.AY.C6
71	X6	5	DSX1B.6.2A.LMZ.GV
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
80	X7	12	DSX0.1.LA084.FW.C6
81	X7	12	DSX1B.6.1A.LMZ.GV
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
90	X8	4	DSX1.2.LA224.AY.C6
91	X8	2	DSX1B.8.2A.LMZ.GV
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
100	X9	2	DSX0.1.LA034.NR.C6
101	X9	2	DSX1B.6.1A.LMZ.GV
LUMINAIRE			
110	X10	38	TBHF.POL1.7026AR4030GL
LUMINAIRE, COLUMN AND BRACKET PACKAGE			
120	X11	5	DSX0.1.LA064.NR.C6
121	X11	5	DSX1B.8.1A.LMZ.GV
BESPOKE			
130	X12/E	1	DSX1.NCPC.2.LA084.AY.C6.Y179
COLUMN			
140	X12/E& X5	1	DSX1B.6.2A.LMZ.GV
LUMINAIRE			
150	X5T	1	DSX0.1.LA084.AY.C6

ACCESSORY

160	40	HEL.CBEPAC2
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LUMINAIRE

170	X13	2	DEW.LA024.CGL.AY.C6
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