

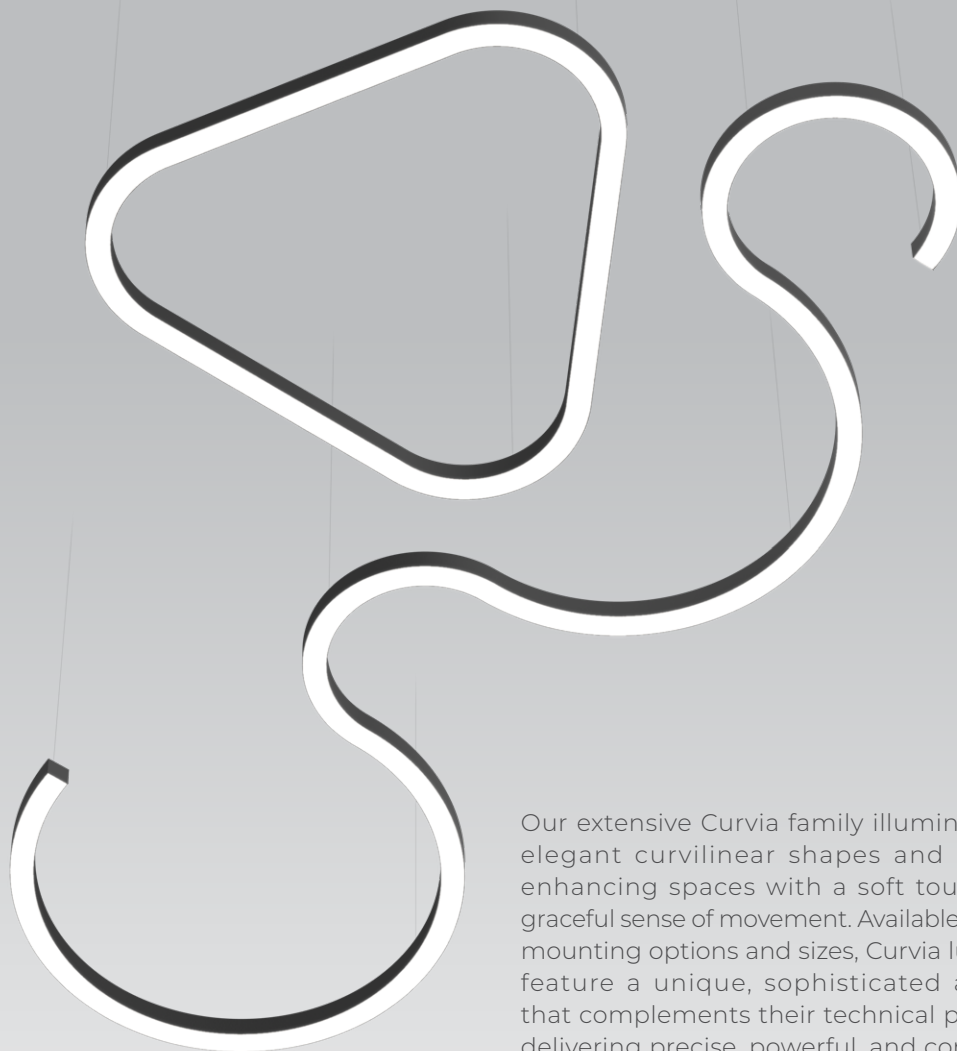
CURVIA 4

PATTERN

PENDANT - RECESSED - SURFACE



Declare.



Our extensive Curvia family illuminates with elegant curvilinear shapes and patterns, enhancing spaces with a soft touch and a graceful sense of movement. Available in various mounting options and sizes, Curvia luminaires feature a unique, sophisticated aesthetic that complements their technical prowess in delivering precise, powerful, and comfortable lighting solutions.

SENSORS
For latest
information
on sensors,
click [here](#).



Curvia Additions
Brochure

Curvia Family (Refer to other spec sheets)

Curvia Mini
1"



Ring

Curvia Prism
2"



Ring
Shapes
Pattern

Curvia
2", 3", 4"



Ring
Shapes
Pattern

Curvia XYZ
2", 3"



Pattern

Curvia Horizon
2", 3"



Ring
Shapes

Curvia Perimeter
2", 3", 4", 5"



Pattern

Curvia Seal
Perimeter
2", 3", 4"



Pattern

Curvia Seal
2", 3", 4"



Ring
Shapes
Pattern

Curvia Acoustix
2"



Ring
Shapes
Pattern

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CURVIA4-PATTERN-SPEC-REV3 November 15, 2024

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Project: _____

Type: _____

Order Guide

A drawing of your pattern is required - anything from a line drawing to an architectural drawing.

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE ³	CRI	DIRECT LUMEN PACKAGE
CURV4PPAT - Curvia 4" Pendant Pattern CURV4RPAT - Curvia 4" Recessed Pattern CURV4SPAT - Curvia 4" Surface Pattern	D1 ¹ - Direct/ Indirect D - Direct ¹ Available for pendant mounting only.	HLO - High-Efficiency Lambertian Optic AOO ² - Asymmetric Opal Optic ² Direction of light must be indicated on RCP/lighting plans.	HLO - High-Efficiency Lambertian Optic NA - Not applicable	SW - Static white FS - Full spectrum ³ Chromawerx SOLA, DUO, and QUADRO also available. Consult factory.	80CRI ⁴ - 80 CRI 90CRI ⁴ - 90 CRI 95CRI ⁵ - 95 CRI ⁴ Not available with full spectrum. ⁵ Not available with static white.	350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ⁶ - High output 1000 lm/ft 1200LMF ⁶ - Ultra high output 1200 lm/ft ⁶ Not available with full spectrum.
INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	TOTAL PATTERN LENGTH	CORNER TYPE ^{8,9}			
350LMF - Eco low output 350 lm/ft 500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF ⁷ - High output 1000 lm/ft NA - Not applicable ⁷ Not available with full spectrum.	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	#FT#IN - Specify total pattern length (#) in 1' and/or 1" increments	CURVED CORNER ^{10,11} #LEVC(R##A##) - Curved leveled corner  LEVC(R##A##) NA - None ⁸ See page 4 for details. ⁹ If more than one option is specified, separate codes with a "+", e.g. 2LEVC(R18A90)+1LEVS(A45). ¹⁰ Minimum radius is 8". Consult factory for smaller radii. ¹¹ Specify quantity (#), radius (R##) and angle (A##), e.g. 2LEVC(R18A90). ¹² Specify quantity (#) and angle (A##), e.g. 2LEVS(A90).	STRAIGHT CORNER ¹² #LEVS(A##) - Straight leveled corner  LEVS(A##)		
INTERSECTION TYPE ^{13,14,15,16}	VOLTAGE	DRIVER ¹⁹	ELECTRICAL			
CURVED INTERSECTION #TCI - Soft T curved intersection #XCI - Soft X curved intersection #YCI - Soft Y curved intersection #CCI - Soft C curved intersection  TCI XCI YCI CCI CU ¹⁷ - Custom NA - None ¹³ See page 4 for details. ¹⁴ If more than one option is specified, separate codes with a "+", e.g. 1TCI+2TSI. ¹⁵ Specify quantity (#) for each required intersection type. ¹⁶ Not available with AOO. ¹⁷ Provide a drawing for custom intersections.	STRAIGHT INTERSECTION #TSI - Sharp T straight intersection #XSI - Sharp X straight intersection #YSI - Sharp Y straight intersection  TSI XSI YSI	120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁸ - 347V ¹⁸ Available with DI driver only. Subject to factory evaluation.	D1 - 1% 0-10V ELV ²⁰ - ELV 120V TRI ²⁰ - TRIAC 120V DA ²¹ - DALI LDE1 ²¹ - Lutron Hi-Lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V ¹⁹ Integral or remote subject to factory evaluation. Code will be updated with prefix "R" if factory determines driver to be remote. ²⁰ Available with 120V only. ²¹ On-site commissioning is required.	1C - 1 circuit 2C ²² - 2 circuits #MC ²³ - Multi circuit EC - Emergency- powered fixture NL - Night light fixture DL - Daylight fixture GTD ^{24,25,26} - Generator transfer device fixture ²² Available for Direct/Indirect only. Separate direct and indirect circuits. ²³ Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit for integral drivers. ²⁴ Integral or remote subject to factory evaluation. GTD must be housed with the driver. ²⁵ Not available with 347V. ²⁶ Minimum 12" radius for integral GTD.		
ELECTRICAL SECTIONS (optional) ^{27,28}	MOUNTING ³⁵	FINISH	OPTIONS ³⁷			
#EC## ²⁹ - Emergency- powered section #NL## ²⁹ - Night light section #DL## ²⁹ - Daylight section ²⁷ Specify with multi circuit (#MC) electrical option only. ²⁸ Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. ²⁹ Specify quantity (#), and section length in inches (##). ³⁰ Integral or remote subject to factory evaluation. GTD/EMB must be housed with the driver. ³¹ Not available with 347V. ³² Minimum 12" radius for integral GTD. ³³ Specify quantity (#). Each battery powers a 4' linear section. Minimum length of linear section is 5' for Direct and 8' for Direct/Indirect. ³⁴ All batteries will be on the same circuit and power the direct LEDs.	#GTD## ^{29,30,31,32} - Generator transfer device section #EMB ^{30,31,33,34} - Emergency battery NA - None	PENDANT ³⁶ ACS - Aircraft cable, standard STS - Stem, standard ACC() - Aircraft cable, custom STC() - Stem, custom ³⁵ The mounting options selected must reflect the luminaire ID. ³⁶ Standard canopies are black for black fixtures, and white for all other finishes. See page 3 for full details on standard and custom options.	RECESSED DTR - Drywall trim DMF - Drywall mud flange	SURFACE DRC - Drywall ceiling	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL# ³⁷ Separate codes with a "+" if more than one is specified. ³⁸ Available with pendant mounting aircraft cable option only. ³⁹ Available with recessed mounting only.	FUI20 - Fuse 120V FU277 - Fuse 277V CTB9 ³⁸ - T-bar caddy clip, 9/16" CTB15 ³⁸ - T-bar caddy clip, 15/16" CTG9 ³⁸ - Tegular caddy clip, 9/16" CTG15 ³⁸ - Tegular caddy clip, 15/16" CST ³⁸ - Screw slot caddy clip FWC ³⁹ - Flexible whip cable (6' std) CP ³⁹ - Chicago Plenum NA - None

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Pendant Mounting Code

Aircraft Cable

Standard

ACS - Aircraft cable, standard

- Ø 5" for power canopy
- Ø 3" for non-power canopy
- Canopies are black for black fixtures, and white for all other fixture finishes
- Power cord is black for black fixtures, and white for all other fixture finishes
- Aircraft cable length is 36"

Custom

Example: ACC(3NPC-72IN-W-PCB-SLC)

ACC() - Aircraft cable, custom

NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS
3NPC - Ø 3" non-power canopy 5NPC - Ø 5" non-power canopy	36IN - 36" 72IN - 72" 120IN - 120" #IN ¹ - Other lengths, specify in inches <small>¹ Maximum length is 288". For longer lengths, please consult factory.</small>	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

Stem

Standard

STS - Stem, standard

- Ø 5" for power canopy
- Ø 5" for non-power canopy
- Canopies are black for black fixtures, and white for all other fixture finishes
- Stem finish is the same color as fixture
- Stem length is 18"
- Stem is not field adjustable

Custom

Example: STC(5NPC-36IN-W-STW-SLS)

STC() - Stem, custom

NON-POWER CANOPY SIZE	STEM LENGTH	CANOPY FINISH	STEM COLOR	OPTIONS
5NPC - Ø 5" non-power canopy	18IN - 18" 36IN - 36" #IN ² - Specify length in inches <small>² Minimum length is 6". Maximum length is 72". Stem is not field adjustable.</small>	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	STW - Matte white STAL - Aluminum STB - Matte black STCF# - Custom finish, specify RAL#	SLS - Sloped ceiling for stem NA - None

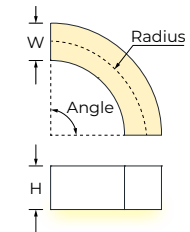
CURVIA 4

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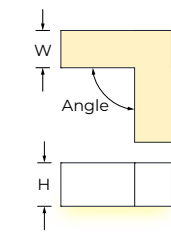


CURVED CORNERS



LEVC(R##A##)

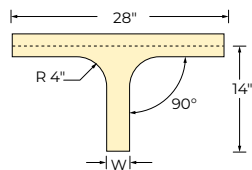
STRAIGHT CORNERS



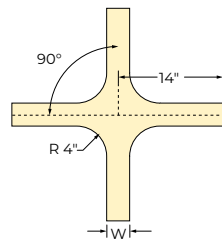
LEVS(A##)

	DIRECT	DIRECT/INDIRECT
Height (H)	3 1/2"	4"
Width (W)	4"	

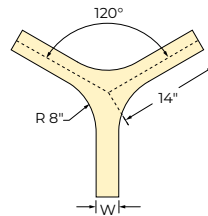
CURVED INTERSECTIONS



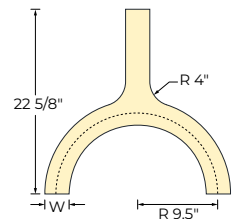
TCI - Soft T curved



XCI - Soft X curved

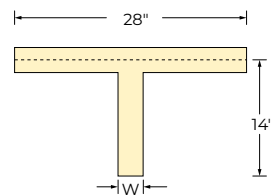


YCI - Soft Y curved

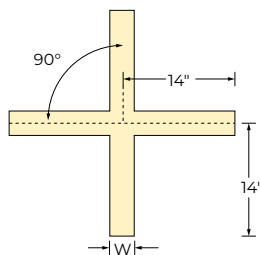


CCI - Soft C curved

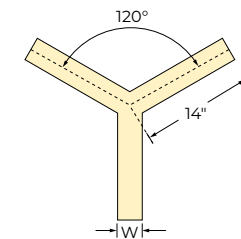
STRAIGHT INTERSECTIONS



TCI - Sharp T straight



XCI - Sharp X straight



YCI - Sharp Y straight

CURVIA 4

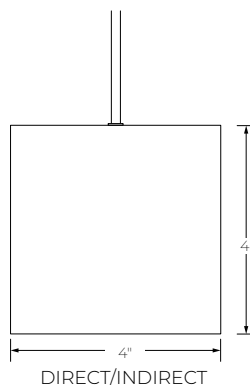
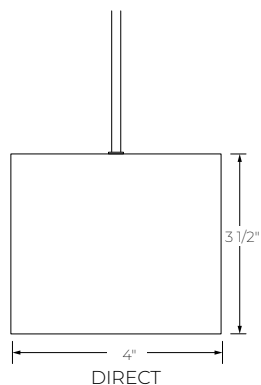
PATTERN

PENDANT - RECESSED - SURFACE

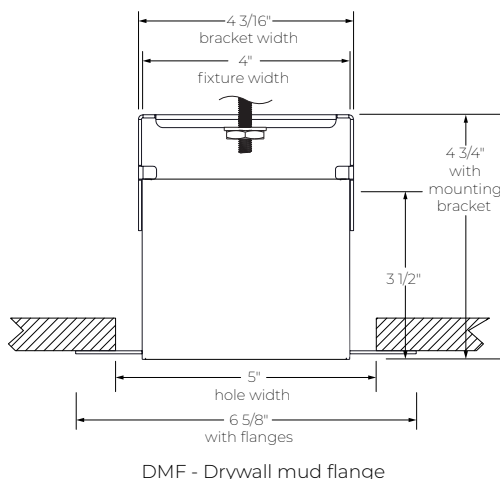
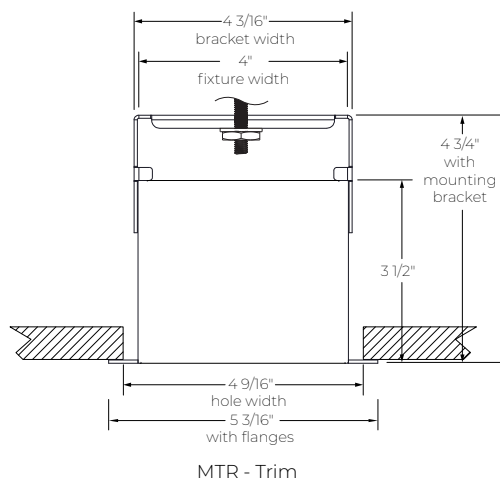


Dimensions

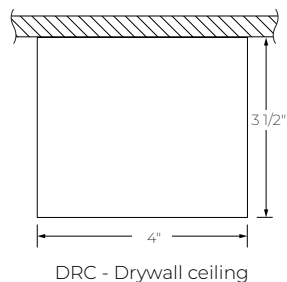
PENDANT



RECESSED



SURFACE



CURVIA 4

PATTERN

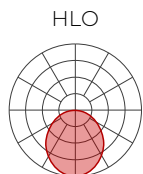
PENDANT - RECESSED - SURFACE



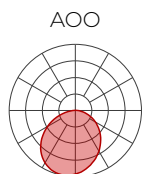
Photometrics

Values calculated based on 4' straight segments at 3500K and 80 CRI for all optics.

DIRECT OPTICS

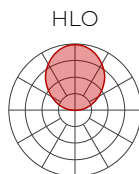


LM/FT	W/FT	LM/W
350	2.7	132
500	3.9	129
750	6	126
1000	8.2	122
1200	10	119



LM/FT	W/FT	LM/W
350	3.1	112
500	4.6	110
750	7.0	107
1000	9.6	104
1200	11.9	101

INDIRECT OPTIC



LM/FT	W/FT	LM/W
350	2.4	149
500	3.5	145
750	5.4	139
1000	7.4	134

MULTIPLIER TABLES

Use these tables to get results for different color temperatures and CRI for all Direct and Indirect photometric tables.

Multiplier - CCT/CRI

CCT	WATTS		LPW	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	1.05	1.27	0.95	0.79
3000K	1.02	1.23	0.98	0.81
3500K	1.00	1.19	1.00	0.84
4000K	1.00	1.19	1.00	0.84
5000K	0.96	1.12	1.04	0.89

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\begin{array}{c} \text{DIRECT} \\ \text{LM/FT} \end{array} + \begin{array}{c} \text{INDIRECT} \\ \text{LM/FT} \end{array} \right)}{\left(\begin{array}{c} \text{DIRECT} \\ \text{W/FT} \end{array} + \begin{array}{c} \text{INDIRECT} \\ \text{W/FT} \end{array} \right)} = \text{LPW}$$

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Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)

Lumenwerx's High-Efficiency Lambertian Optic is engineered with reflective sidewalls that distribute LED output across acrylic shielding. To negotiate the curves of Lumenwerx rounded fixtures, the HLO is equipped with proprietary SupremeGrip™ technology, which keeps the optic securely in place.

Asymmetric Opal Optic (AOO)

The Asymmetric Opal Optic (AOO) provides targeted illumination while diffusing light evenly, minimizing glare and spill. Its design creates a soft, inviting ambiance, making it ideal for architectural and accent lighting in modern spaces.

LIGHT SOURCE

Static white

Custom array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

Full spectrum

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, ELV, TRIAC, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

Battery

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING

Pendant: Pendant fixtures can be mounted either with aircraft cable or with stem.

Recessed: Recessed fixtures can be mounted in drywall ceilings with trim or mud flange options.

Surface: Surface fixtures can be mounted directly to drywall and hard surface ceilings, hardware supplied by others. A minimum of 6" from the vertical wall is required.

FINISH

Interior: 95%, reflective matte powder coated white paint.

Exterior: Matte white, matte black or aluminum powder coating. Custom finishes are also available.

CONSTRUCTION

Housing: Extruded aluminum and aluminum sheet, up to 90% recycled content

Reflectors: Aluminum

Lens: Acrylic

Hanger: Chromed griplock securely attached with spring steel hardware in end caps and/or joiners

Aircraft cable suspension: Ø 1/16" stainless steel aircraft cable

Stem: Ø 1/2" threaded steel tube

WEIGHT

Pendant Direct: 2.5 lb/ft - 1.13 kg/ft

Pendant Direct/Indirect: 3.2 lb/ft - 1.45 kg/ft

Recessed: 3.2 lb/ft - 1.45 kg/ft

Surface 2.5 lb/ft - 1.13 kg/ft

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CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

IC rated: Suitable for direct contact with insulation. For Recessed mounting only.

Declare: [LBC Red List Approved](#)

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.