

## GROOVE RECESSED SYSTEM SPECIFICATION SHEET

PROJECT \_\_\_\_\_

TYPE \_\_\_\_\_

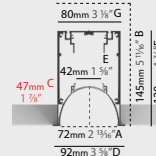
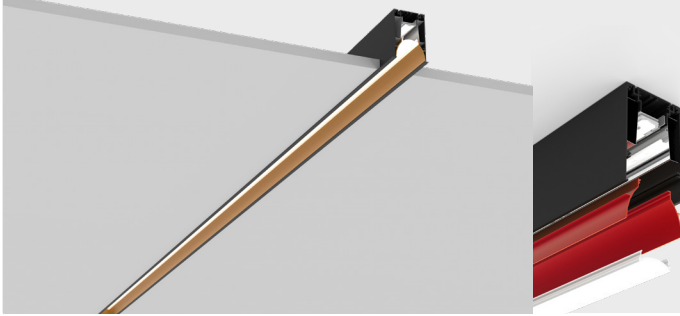
NOTES \_\_\_\_\_

QUANTITY \_\_\_\_\_

DATE \_\_\_\_\_

ARCHITECTURAL

With the recessed opal diffuser, the LED luminaires of the GROOVE family produce a unique light pattern. In addition, the recessed profile system impresses with its flexible lengths, simple connectors for the profiles, and above all, the possibility of many colors. In the recessed variant, both the installation housing and the frame can be finished in the 30 colors. The recessed Groove is officially certified as ball-proof (upon request), thus suitable for use in sports and multipurpose rooms



A: Opening width | B: Recess depth  
C: Opening depth | D: Width including trim | E: Diffuser width | F: Profile height  
G: Mounting width including brackets



The recessed, curved diffuser and the specially adapted construction of the mixing chamber guarantee high visual comfort. The internal reflector is made of a microcellular reflective sheet material with an increased reflectance of 97%, which improves the efficiency of Groove



UPON REQUEST

- Additional Options**
- Color Temperature
  - CRI 90
  - RGB-W / Tunable
  - Different Output
  - Individual Sizes
  - Ball-Proof



### BUILDING GUIDE

Check boxes to complete specification order and submit to [quotes@zaneen.com](mailto:quotes@zaneen.com) to receive a formal BOM and finalized model number  
For specification purposes, build a unique model number with bold text [30K - DIR - OP - ...]

Quick Ship (QS) - Not Available

Build Code **L3GR-REC-SYS-**

	Product	Color Temperature	Distribution	Diffuser	Length
<b>PROFILE - SYSTEM</b>	<b>L3GR-REC-SYS</b> Recessed	<b>27K</b> 2700K	<b>DIR</b> Direct	<b>FD</b> Flat Opal	<b>Alum Profile System</b> length
		<b>30K</b> 3000K		<b>CD</b> Curved Opal	Specify in mm length
		<b>35K</b> 3500K			Specify in X'-X" qty
		<b>40K</b> 4000K		<b>PAT</b> Pattern/Design Ambition (Consult Factory with Drawings) qty	

	Electrical	Input Voltage	Emergency	Finish
<b>PROFILE - SYSTEM</b>	<b>DN</b> Non-Dimming	<b>UNV</b> Universal 120V / 277V	<b>EMCIR</b> Emergency Circuit	<b>Profile</b> ◆ 00-29
	<b>DP</b> Phase Dimming			<b>Profile Korona</b> ▲ 01-29
	<b>DV</b> 0-10 Dimming			<b>End Cap</b> ◆ 00-29 ▲ 00-29
	<b>DD</b> Dali Dimming (Upon Request)			<b>Cap Profile</b> ◆ 00-29

◆ ▲ ●  
refer to color chart  
refer to inserts to build code  
RAL color # (upon request)

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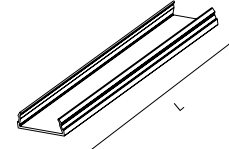

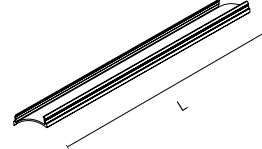

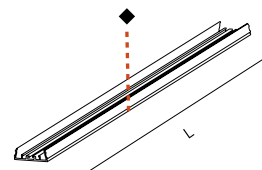
QUANTITY \_\_\_\_\_

DATE \_\_\_\_\_

Build Code <b>L37295-</b>		Dimension		Finish	qty
mm		mm			
ALUMINIUM PROFILE		W: 92	per meter	◆ 00-29	
		H: 120	max 3000mm field-cutttable	▲ 00-29	
Build Code <b>L39913-</b>		Dimension		Finish	qty
mm		mm			
END CAP		10 x 92		◆ 00-29	
		H: 120		▲ 00-29	
Build Code <b>L3993200</b>		Dimension			qty
mm		mm			
LINEAR COUPLER		200 x 77	1 Pair		
		H: 79			
Build Code <b>L3982500</b>		Dimension			qty
mm		mm			
MOUNTING BRACKET		100 x 85	max distance 1000mm		
		H: 120			




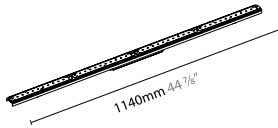



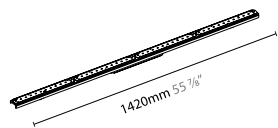



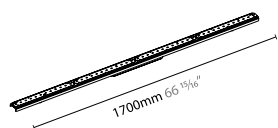



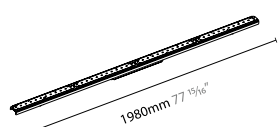



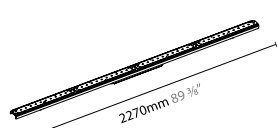
## GROOVE RECESSED SYSTEM SPECIFICATION SHEET

PROJECT \_\_\_\_\_  
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Build Code <b>L3964300-</b>		Dimension		qty		
↑ ▲		mm				
FLAT OPAL DIFFUSER			<b>W: 42 H: 14</b>	<b>per meter</b> max 3000mm field-cutttable		
Build Code <b>L3993000-</b>		Dimension		qty		
↑ ▲		mm				
CURVED OPAL			<b>W: 42 H: 14</b>	<b>per meter</b> max 3000mm field-cutttable		
Build Code <b>L39931-</b>		Dimension		Finish	qty	
↑		mm				
CAP PROFILE			<b>W: 42 H: 14</b>	<b>per meter</b> max 3000mm field-cutttable	◆ <b>00-29</b>	

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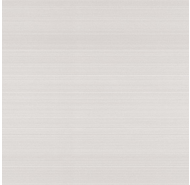
PROJECT	_____
TYPE	_____
NOTES	_____
QUANTITY	_____
DATE	_____

Build Code <b>L38524-</b>									qty
GROOLINE			Wattage	Delivered Lumens	CRI	Dimming	Color Temperature	Diffuser	
				<b>20.2</b> 20.2W	<b>1370</b> 1370lm <b>1418</b> 1418lm <b>1447</b> 1447lm	<b>80</b>	<b>DN</b> Non-Dim <b>DP</b> Phase <b>DV</b> 0-10V	<b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>FD</b> Flat Opal <b>CD</b> Curved Opal
Build Code <b>L38526-</b>									qty
GROOLINE			Wattage	Delivered Lumens	CRI	Dimming	Color Temperature	Diffuser	
				<b>25.3</b> 25.3W	<b>1712</b> 1712lm <b>1773</b> 1773lm <b>1809</b> 1809lm	<b>80</b>	<b>DN</b> Non-Dim <b>DP</b> Phase <b>DV</b> 0-10V	<b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>FD</b> Flat Opal <b>CD</b> Curved Opal
Build Code <b>L38528-</b>									qty
GROOLINE			Wattage	Delivered Lumens	CRI	Dimming	Color Temperature	Diffuser	
				<b>30.4</b> 30.4W	<b>2055</b> 2055lm <b>2126</b> 2126lm <b>2170</b> 2170lm	<b>80</b>	<b>DN</b> Non-Dim <b>DP</b> Phase <b>DV</b> 0-10V	<b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>FD</b> Flat Opal <b>CD</b> Curved Opal
Build Code <b>L38530-</b>									qty
GROOLINE			Wattage	Delivered Lumens	CRI	Dimming	Color Temperature	Diffuser	
				<b>35.4</b> 35.4W	<b>2397</b> 2397lm <b>2481</b> 2481lm <b>2532</b> 2532lm	<b>80</b>	<b>DN</b> Non-Dim <b>DP</b> Phase <b>DV</b> 0-10V	<b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>FD</b> Flat Opal <b>CD</b> Curved Opal
Build Code <b>L38532-</b>									qty
GROOLINE			Wattage	Delivered Lumens	CRI	Dimming	Color Temperature	Diffuser	
				<b>40.5</b> 40.5W	<b>2740</b> 2740lm <b>2836</b> 2836lm <b>2894</b> 2894lm	<b>80</b>	<b>DN</b> Non-Dim <b>DP</b> Phase <b>DV</b> 0-10V	<b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K	<b>FD</b> Flat Opal <b>CD</b> Curved Opal

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### FINISH COLORS 00-29

Anodized Aluminum - 01



Sparkling Silver - 01



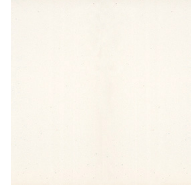
Black Velvet - 02



Crystal White - 03



Creamy - 04



Hampton Bay - 05



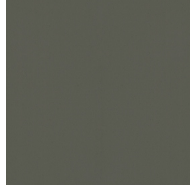
Lagoon - 06



Urban Forest - 07



In the Army - 08



Rusty Angel - 09



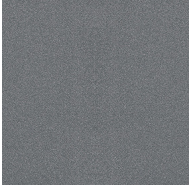
Rusty Rush - 10



Milk and Chocolate - 11



Fade to Gray - 12



Mysterious Gray - 13



Twilight - 14



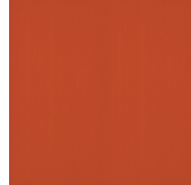
Lost Dream - 15



Purple Sky - 16



Fresh Oh - 17



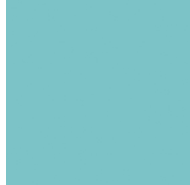
Funky P. - 18



Kissing Aphrodite - 19



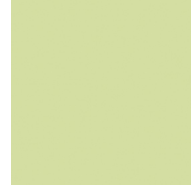
Poseidon's Paradise - 20



Blue Sky - 21



Spring Green - 22



Mellow Yellow - 23



Golden Heart - 24



Gun Metal - 25



Champagne Cream - 26



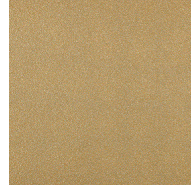
Copper Mine - 27



Ancient Bronze - 28



Jazz Gold - 29



**Digital:** Not all screens are calibrated the same, and therefore, colors will appear differently between screens.

**Physical:** When texture is involved, there will be variations in color, character and tone within a product series and between product families.






































































**Gun Metal:** No Gun Metal finish is alike. It combines a mixture of transparent and black color particles which ensures a highly individual effect and no luminaire being identical.

**Champagne Cream, Copper Mine, Ancient Bronze + Jazz Gold:** These finishes have slight fading from specific powder coating production. Each luminaire will slightly vary.











RAL Color Upon Request













### LEGEND

 floor-mounted	 pivotable	 special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
 wall and ceiling: recessed and surface mounted	 rotating	 warm dim / natural dimming LED
 ceiling-mounted and wall-mounted	 illuminate tilted	 rechargeable battery powered
 wall-mounted	 color of suspension cable	 fixture with natural vivid LED (upon request)
 omni-directional light distribution	 length of suspension cable	 color rendering index
 direct light distribution	 reflector degree selection	 color temperature
 direct/indirect light distribution	 super spot	 lumen (luminous flux)
 indirect light distribution	 lens	 efficacy (lumens per watt)
 asymmetric light distribution	 lens pack	 Unified Glare Rating (UGR) range from 5-40
 aura light distribution	 shine ring	 marine grade (AISI 316 stainless steel)
 round wall or ceiling cut-out	 integrated shine ring with diffuser	 walk on
 square wall or ceiling cut-out	 free individual colors 01-29	 drive on
 the supplied jig specifies the cutout dimensions	 individual colors: 00 (free of charge), 01-25 (extra charge)	 Dark Sky Compliance
 minimum distance (meters) lamp - object	 luminaire part to be colored (F1)	 Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
 recessed depth	 luminaire part to be colored (F2)	 lamp protected against explosion
 ceiling thickness in mm	 luminaire part to be colored (F3)	 blown glass using traditional methods by master glass blower
 ceiling thickness selection	 luminaire part to be colored (F4)	 acoustic material
 dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)	 luminaire part to be colored (F5)	 protection class I, protection insulation
 included or excluded LED driver/transformer/control gear	 color of 3-circuit adaptor	 protection class II, protection insulation
 separately switchable	 indirect diffuser	 ETL Certified to UL and CSA Standards
 sensor	 direct diffuser	 UL Certified to UL and CSA Standards
 remote control	 ball-proof (upon request)	 CSA Certified to UL and CSA Standards
 available upon request	 accessory	 Certified for North American Standards

### IP RATING

 IP20	protected against ingress of solid bodies greater than 12.5mm (finger)
 IP33	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
 IP40	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
 IP43	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
 IP44	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
 IP54	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
 IP55	protected against ingress of dust protected against jets of water
 IP66	protected against ingress of dust protected against powerful jets of water or heavy seas
 IP67	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
 IP68	protected against ingress of dust protected against immersion of water under pressure for long periods

### IK RATING

 IK01	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
 IK02	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
 IK03	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
 IK04	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
 IK05	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
 IK06	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
 IK07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
 IK08	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
 IK09	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
 IK10	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)

PROJECT	_____
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### SYSTEM SUMMARY

#### System

**Type**  
Recessed (Non-IC type)  
Rated for Dry Locations Ceiling and Wall Mounted

**Approval Status**  
CSA Certified to CSA and UL Standards

**Emission**  
Refer to emission icon beside each light insert and symbol legend for descriptions

**Efficiency**  
Acrylic Opal Diffuser (snap-in) lens 43%

#### Profile

**Measurement**  
w 92mm (3 5/8") x ht. 120mm (4 3/4")

**Housing**  
Anodized extruded aluminum profile available per meter and field-cuttable  
Profiles have a maximum length of 3000mm (9' 10 1/4") and joined together with couplers to ensure uniform appearance and easy installation

**Cutout**  
w 85mm (3 3/8") x Profile Length + 10mm ( 3/8")  
**Drywall Ceiling Thickness**  
Mounting bracket function with drywall thickness between 10mm (3/8") - 30mm (1 3/16")  
**Recessed Depth**  
h 145mm (5 11/16")

#### Electrical

**Connections**  
Luminaries are pre-wired with a factory installed branch circuit wiring and quick-release connectors  
Through wiring is used to connect the luminaries

**Power Feed**  
Located 2 inches from one end of the fixture, on top of the profile  
If a different location is required, please specify  
3 Wires - non-dimming or phase dimming  
4 Wires - two circuits of non-dimming or phase dimming  
5 Wires - 0-10V dimming or dali dimming

**LED Driver**  
Integrated with inserts  
Electronic Class 2 driver, Universal 120V/277V  
Non-Dimming Driver, Phase Dimming Driver, and 0-10V Dimming Driver (10-100%)  
Consult factory for driver cutsheet  
If a different driver is required, please specify

**Emergency Inverter Compatible**  
To be installed remotely, and provided by others  
It can be located up to 250m away from the fixture

Emergency circuit wiring is available upon request (Isolated track with dedicated driver used for emergency circuit will connect to emergency battery pack - supplied by others)

#### General

**Features**  
The recessed, curved diffuser and the specially adapted construction of the mixing chamber guarantee high visual comfort

The new internal reflector is made of microcellular reflective sheet material with an increased reflectance of 97%, which improves the efficiency of Groove

The curved diffuser is installed deep in the luminaire. The curved side flanks inside the luminaire allow a special accentuation in the 30 colors of your choice

The Groove recessed is officially certified as ball-proof, thus also suitable for use in sports and multipurpose rooms

**Custom Requests and Additional Options**  
Availability depends on insert, system, and configuration  
Must consult factory and allow up to 5 business days for an answer

Color temperature, Special CRI, RGB-W, tunable, individual sizes, special diffuser, light inserts with different outputs, light inserts on different circuits

**Configuration**  
Consult factory for patterns or custom designs  
Provide configuration drawings

\*Shop drawings provided upon receiving purchase order

#### Warranty

ZANEEN provides a limited warranty from date of purchase to original purchaser

**LED Inserts** : 5 year tested for 50,000 hours at 70% lumen output (L70)  
**LED Driver** : 5 year  
**Non-Electrical Components** : 1 year

\*Check boxes to complete specification order and submit to [quotes@zaneen.com](mailto:quotes@zaneen.com) to receive a formal BOM and a finalized model number

\*In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at [zaneen.com](http://zaneen.com)

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### SYSTEM SUMMARY

#### Inserts

\*Delivered lumens is the maximum possible; using most efficient diffuser

#### Linears

##### Grooline

Wattage: 20.2W - 40.5W

Lumen: 1370lm - 2894lm

Color Temperature: 30K, 35K, 40K

Length: 1140mm (44 7/8") - 2270mm (89 3/8")



# WIRING DIAGRAMS

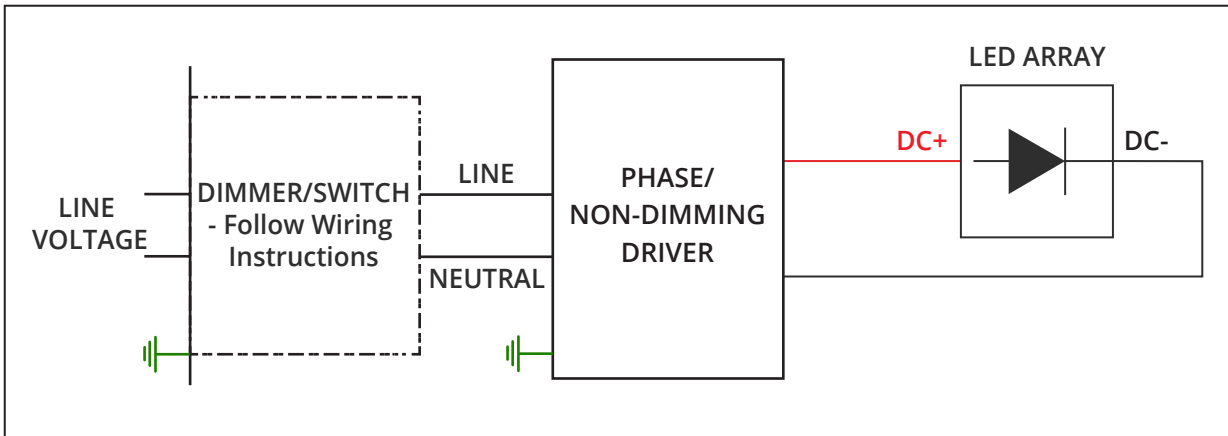
ALL ZANEEN FIXTURES ARE MANUFACTURED TO NORTH AMERICAN ELECTRICAL STANDARDS

Post Sales Support  
HQ 1-800-388-3382 X 625 support@zaneen.com

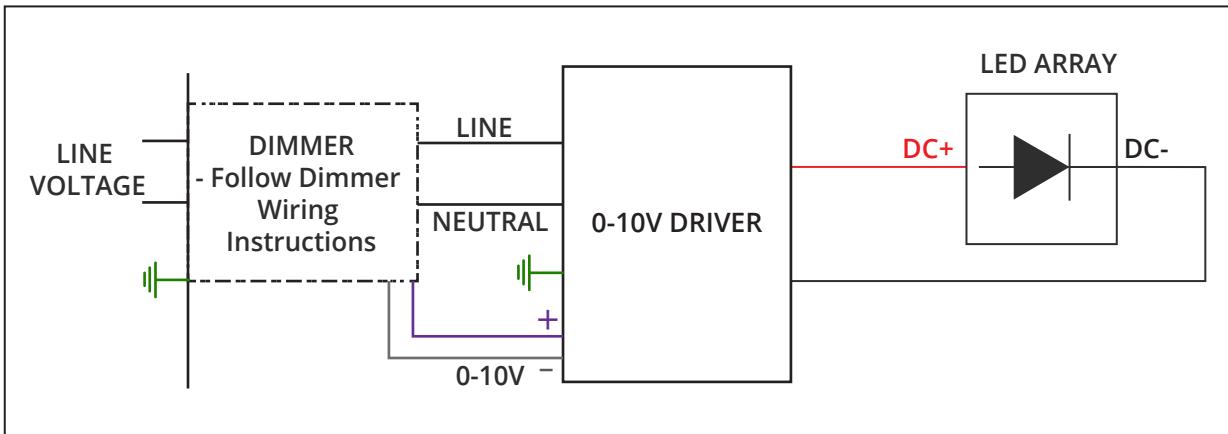
### IMPORTANT:

- Do NOT connect directly to line voltage
- There is a minimum and maximum load per driver (See fixture and driver specifications).
- Fixture MUST be connected to LED driver, prior to turning power on

### PHASE/NON-DIMMING WIRING DIAGRAM



### 0-10V DIMMING WIRING DIAGRAM



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INSERT CUSTOM DRAWING HERE OR ATTACH WITH ADDITIONAL PAGES