



## Specification

### PRODUCT FAMILY NAME: SMARTER™ TRACK HEADS G2

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## GENERAL GUIDELINES

### Products Description

Smarter™ series is a wide collection, which includes 5 different installations of: track spotlight, track pendant light(on request), canopy spot light, canopy pendant light and surface lights. It's a high performance portfolio dedicated to architectural lighting segment, providing 750lm to 4000lm with 6 different wattage option, 15 to 60 beam spreads in the Juno, Halo, Lightolier, Nordic Aluminium(Tek, Htek) etc track systems. A full list of lighting control accessories like, honeycomb, barndoor, snoot, linear lens, soft light lens and color filter makes it perfect for your projects.

Now, this series is upgraded to Ra 90+ with the same lumen packages and efficacy, powered by CREE CXB COB LEDs, and new drivers of flicker free, which make higher quality of light.

cETLus, FCC and RoHS compliant.

## Characteristics

- Input Voltage(VAC):120V
- Power Factor:0.95
- Optional Beam Angle(°):15°, 24°, 38°, 60°
- Available Wattage(W): 8,10,15,22,35,40
- CRI & CCT:
- Lifespan (hrs): >50,000hrs @Ta=25°C
- Base: J, H, L Type, 2 Circuit 2 Neutral, etc.
- Dimming: Triac/ELV dimming(except 40W)

CCT (K)	Lumen Output @Ra90+(lm)	Lumen Output @Ra80+(lm)
2000-3000K DTW	On request for ≤15W	Not available
2700	Available	On request
3000	Available	Available
3500	Available	On request
4000	Available	Available
5000	On request	On request

- Finish Color:

Matt White	Matt Black	Matt Silver	Texture White	Texture Black	Bright White	Others
Available	Available	On request	On request	On request	On request	On request

\* " On request " means available but need MOQ for ordering, contact your sales for details

## Features

- ✓ Compatible to all North American Track Systems: Juno, Halo, Lightolier and Nordic Aluminium
- ✓ Infinity and flexible thanks for the modular design
- ✓ Up to 110 LPW with Ra 90+
- ✓ 4 sizes 6 different lumens package up to 4000lm
- ✓ Sleek, compact cylinder housing and no visible screws
- ✓ Triac, ELV dimmable[except 40W], compatible with most of dimmers in the market
- ✓ Flicker Free according to IEEE 1789, Title 24 and DLC
- ✓ Interchangeable optics: lens, barndoor, honeycomb, snoot, color filter, linear lens...
- ✓ Integral driver, isolated circuit
- ✓ Passive cooling achieved by innovative thermal design
- ✓ 350°rotation (horizontal), 90° adjustable(vertical)

## Products Datasheet

Numéro de produit		TR0238W	TR02810W 1	TR02214W 2	TR02522W 6	TR02636W 2	TR02640W 9
General	Input Wattage(W)	8	10	15	22	35	40
	Output Lumen(lm) (3000K@Ra90)	600	810	1240	2090	3050	3450
	Dimmable	Yes	Yes	Yes	Yes	Yes	No
	Dimming Range(%)	5-100	5-100	5-100	5-100	5-100	Non-dim
	Flicker Free	Yes	Low flicker	Yes	Yes	Yes	Yes
	Max. CBCP @ Narrowest Beam Ra90	6000	4221	6343	11447	12383	14056
	Flicker percentage	NA.	NA.	NA.	NA.	NA.	NA.
	Starting time	<500mS	<500mS	<500mS	<500mS	<500mS	<500mS
	Turn off time	<2.0S	<2.0S	<2.0S	<2.0S	<2.0S	<2.0S
	Noise	24dBA	24dBA	24dBA	<24dBA	24dBA	24dBA
	Body Diameter (mm)	60	70	70	85	100	100
	Qty. per carton(pcs)	36	36	36	24	8	8
	Weight per carton(kg)	17	23	23	21.5	17.5	17.5
	Carton dimension(cm)	52x46x56	52x46x56	52x46x56	52x50x39	51x41x35	51x41x35
Input	Voltage	Rated:120V; Range: 108-132V;					
	Frequency	Rated:50-60Hz, 0Hz; Range:47-63Hz					
	Power factor	0.95					
	I-THD	≤20%					
	Inrush current	1A	2.4A	2A	5A	10A	24A
	Inrush current time	45uS	50uS	50uS	50uS	70uS	70uS
	Leakage current	<1mA	<1mA	<1mA	<1mA	<1mA	<1mA
	ON/OFF switches cycle	>100,000					
Protection	Over current	Constant current limiting, recovers automatically after fault condition is removed					
	Over voltage	Shut down output voltage, with auto-recovery or re-power on to recovery					
	Over temperature	Shut down output voltage, recovers automatically after temperature goes down					
	Short circuit	Constant current limiting, recovers automatically after fault condition is removed					
Accessories	Lens	Available					
	Snoot	Available					
	Honeycomb	Available					
	Oval Snoot	Available	Available	On request	On request	On request	On request
	Barndoor	Available	Available	On request	On request	On request	On request
	Solite	On request	On request	On request	On request	On request	On request
	Linear Lens	On request	On request	On request	On request	On request	On request
Other Installations in the collection	Track Pendant	On request	On request	On request	On request	On request	On request
	Monopoint Spot	On request	On request	On request	On request	On request	On request
	Monopoint Surface	On request	On request	On request	On request	On request	On request
	Monopoint Pendant	On request	On request	On request	On request	On request	On request

Safety & FCC	Safety standards	UL 1574:2004 Ed.3 +R:12Jul2016; CSA C22.2#250.570:2016 Ed.1; FCC Part 15 Subpart B; ANSI C63.4:2014							
Environment	Ambient temperature range	-20°C ~ +35°C							
	Max. case temperature(tc)	85°C							
	Relative humidity range	20% ~ 85%RH							
	Storage temperature range	-30°C ~ +75°C							
max. No. of PSUS(Driver supply unit) on miniature circuit breaker(MCB)	MCB TYPE B	10A	73	60	40	28	19	14	
		16A	117	96	64	44	30	23	
		20A	146	120	80	55	37	28	
	MCB TYPE C	10A	85	70	47	32	22	16	
		16A	136	112	75	51	35	26	
		20A	170	140	93	64	43	33	
	Lifetime(hrs)@ta=25°C		>50,000H at non enclosure environment						
	Glow wire test		850°C for 5S; 650°C for 30S						
	Warranty years		5 years						
(*If demand other performance, contact your sales consultant or contact us: raymond@luminairegalarneau.com									

Ripple voltage is measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 100nF & 47uF parallel capacitor.

The flicker for frequencies of 200 Hz or below, input voltage 120Vac , at 100% output current level and 20% output current level with dimmer attached, output current ripple is defined as  $[(I_{max} - I_{min}) / (I_{max} + I_{min})] * 100\%$ , (CEC-400-2016-018-FS, Title 24 part 6 JA8).

The noise of LED driver is defined as test data when driver tested in noise room with 50~60dB environment, and been hang in 1ft (305mm) inside chamber.

The inrush current is test data of 120Vac input, cold start, measured at input current peak.

The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC directive on the complete installation again.

For other than independent use, higher ta of the control gear possible as long as highest allowed tc point temperature is not exceeded.

## LED

Original CREE® CXB COB LED array, within 4-step MacAdam ellipses, LM80 qualified. Luminus® LED on request.

## Others

Use in dry location only, not suitable for use in totally enclosed.

## CERTIFICATION& ENERGY LABELING



## **DIMMING COMPATIBILITY**

Please contact your sales for the compatibility dimmer list!

## **INSTALLATION INSTRUCTION**

Please contact your sales for the installation instruction of each track systems that requested!

## **WARRANTY**

### **A. Warranty Terms**

Five years factory warranty from the date of production and based on working temperature of 25°

### **C. B. Special conditions**

The warranty period starts on the date of production(with production date trace and tracking).  
This warranty policy is only valid when products are properly installed and operated in application conditions as specified in the product datasheet.

### **C. Return Policy**

Luminaire Galarneau will not accept returned items without prior notice.  
Luminaire Galarneau will not be responsible for any costs or expenses caused by following conditions:

- a. Product that has been modified by the user.
- b. Product was not installed according to manual or specification.
- c. Product was subject to unusual physical or electrical stress, misuse, or negligence.
- d. Other damages caused after receipt of product by customer.

### **D. Return Procedure**

To obtain approval of product return to Luminaire Galarneau, customer needs to follow our return procedures below:

- a. Email the detailed information to sales who you contact. It should include the "Invoice number", "Defective products quantity and items" and pictures, or video etc.
- b. Returned product will be inspected upon arrival at the factory.