



Rize offers multi-function lighting with ambient, exam, and reading illumination from a pair of recessed luminaires. The pair of Rize luminaires operate in a master and satellite configuration. Each lighting function can satisfy the illuminance recommendations of ANSI-IES RP29-16. Optional BIOS SkyBlue[™] technology provides a biologically optimized light spectrum that supports both circadian stimulus and visual diagnosis.

Project:

Type:

The compact and durable construction, combined with multiple light source and control options makes Rize particularly well suited to today's healthcare patient rooms. Rize is also available with Chromawerx SOLA and DUO capability (see separate spec sheet).

			Performance				
	IDE 4	NON-IC RATED	FUNCTIONS	LM	w	LM/W	
	IP54		Exam+Ambient	14,600	159	92	
			Ambient	6000	62	97	
			Reading	2087	28	75	

Code

Calculation with 2 x 4' fixtures, 90 CRI, 3500K - In a room : H: 9' x W: 10' x D: 10', 2'8'' Spacing

		LIGHT SOURCE		CRI		EXAM (2		RES) 7	A	1BIENT (2 F	IXTURES) [°]		READING FUNCTION
	4FT												
RIZD - Rize RIZSD ¹ - Rize	4FT - 4'	SW - Static white FS - Full spectrum		80CRI 4 - 8 90CRI 4,5 -	- 90 CRI (with AMB1)		AN	AMB1 ¹⁰ - High output 6000 lm AMB2 - Medium output 4000 lm		0 lm	RZ2() ^{11,12} - Rize 2 reading function		
Seal ¹ IP54 rated with Rize Seal option.		BIOSST ^{2,3} - BIOS Biolog BIOSDY ^{2,3} - BIOS Biolog Dynamic BIOSTU ^{2,3} - BIOS Biolog	gical	⁴ Not available with full spectrum. ⁵ Not available with BIOS.		, Im ⁹ Lu fu ™N	AMB3 - Low output 2800 Im ⁹ Lumen output reduced with BIOS and full spectrum, please consult factory. ¹⁰ Meets RP29-16 in static white only.		S and ory.	 NA - None Not available with Rize Seal. To specify, 			
		² When specified with the re the reading light is not avai ³ See page 5 for details.		spectrum.	de with full	⁷ Lumen ou and full sp factory. ⁸ Meets RP2	ectrum, p	lease co	insult				see code and example bellow.
FUNCTION CON	TROL 13	,			COLOR TE	EMP.	VOLTA	GE	MOUNTIN	IG	FINISH		OPTIONS ¹⁷
					27K ¹⁶ - 270	10K	120V - ⁻	1201/	TG9 - Tequ	lar 9/16"	w - Matte v	vhite	CP - Chicago
D1 - 1% 0-10V (Am DA ¹⁴ - DALI LDE1 ¹⁴ - Lutron H ELD1 - eldoLED 19 ELD0 - eldoLED C LOW VOLTAGE CC LVC2# - Individua	NDENT FUNCTION CONTROL -10V (Ambient + reading dimmable. Exam on/off control) JALI Lutron Hi-lume 1% Eco IdoLED 1% ECOdrive 0-10V eldoLED 0.1% SOLOdrive 0-10V <u>DLTAGE CONTROL</u> ¹⁵ Individual or sequential control for 2 functions Individual or sequential control for 3 functions			30K - 3000 35K - 3500 40K - 4000 50K ¹⁶ - 500 ¹⁶ Not availa BIOS.	DK 277V - 277V TCIS - TB9 - TB1S - SOK DK TB1S - TB1S - ST - S DK ST - S able with DTL - DMF		TG15 - Tegr TB9 - T-ba TB15 - T-ba ST - Screw DTR - Dryw DTL - Dryw	Tegular 15/16" AL - Alumini T-bar 9/16" WA - White T-bar 15/16" Antimicrobia crew slot T-bar Drywall trim Drywall trimless • Drywall mud RAL#		ium ial	GK - Grid gasket NA - None ⁷⁷ Separate codes with a "+" if more than one is specified.		
¹⁴ On-site commission ¹⁵ The number of func	ing of function tions specified	atible. Consult factory for detail ns is required. d must coincide with the numl 4. See table on page 6 to select	per of functions fo										
Optiona	I Read	ding Funct	ion (Example:	RZ2(SW-:	28W-40[DEG-2	STP-8	30CRI-351	<))	1		
READING LIGHT	D LIGH	T SOURCE	WATTAGE (2 FIXTURES	5) BEAM			COL	OR QUALIT	Y CRI		COL	OR TEMP.
RZ2													
RZ2 - Rize 2	RZ2 - Rize 2 SW - Static white 28W - 28 W output, up 1 2275 Im		output, up to		- 30° Narrov - 40° Flood			- 2-Step Adam Ellipse	90CRI - 80CRI - 95CRI -	80 CRI	30K 35K 40K	- 2700K - 3000K - 3500K - 4000K - 5000K	
	RED	- Red, 620 nm	4W - 4 W			- 30° Narrov - 40° Flood		NA - appli	Not cable	NA - No	t applicable	NA -	Not applicable
		1¹⁸ - Dim-to-warm e channel control 35K K	26W - 26 W o 1508 Im	output, up to	40DEG	- 40° Flood			- 3-Step Adam Ellipse	90CRI -	90 CRI	warn	A - Dim-to- n single channel rol 35K-22K
	¹⁸ Only	available with D1, DA, LVC3#.											

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862 www.lumenwerx.com

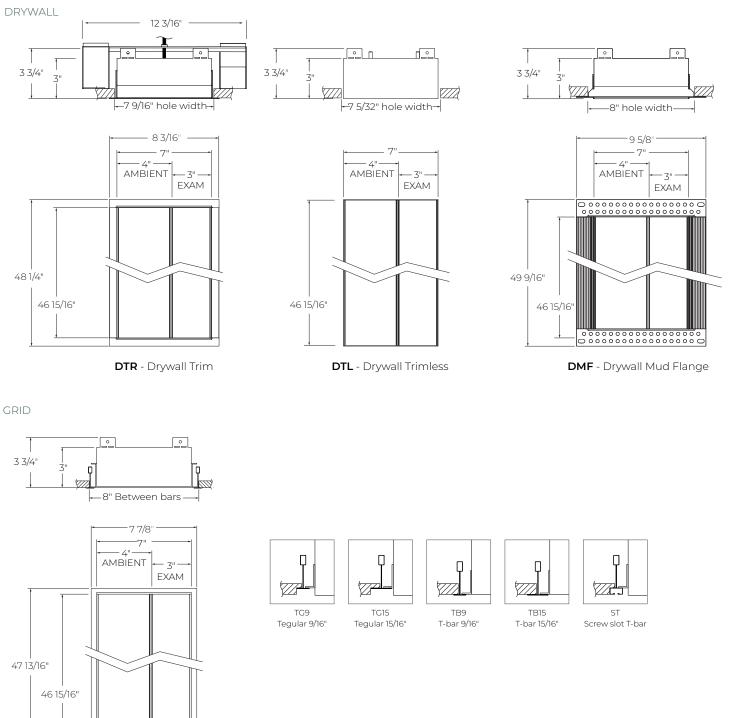








Dimensions











Dimensions

READING FUNCTION

	\bigcirc
+	 ←3 13/16"→ READING LIGHT

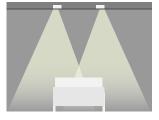




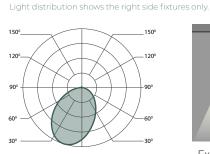


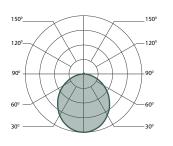
Photometry

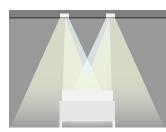
Exam No dimming



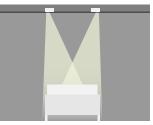
Ambient Dimmable



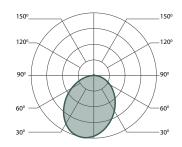


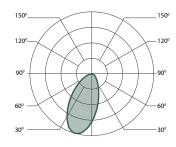


Exam HO (Exam + Ambient) No dimming



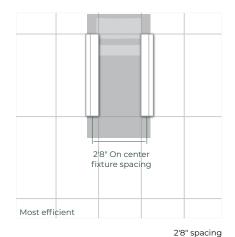
Reading Dimmable





PATIENT ROOM

10' x 10' room, 9' ceiling, 3'x6' bed against the wall



4'8" On center fixture spacing

4'8" spacing

	20 spacing		48 spacin
FUNCTION	LUMEN OUTPUT	AVG. ILLUMINANCE	UNIFORMITY (AVG:MIN)
EXAM HO (EXAM+AMBIENT)	14,600 lm	107 fc	1.47 : 1
EXAM	8600 lm	65 fc	1.47 : 1
AMBIENT	6000 lm	46 fc	1.46 : 1
READING	2000 lm	40 fc	1.27 : 1

Calculation with 4' fixture, 90 CRI, 3500K, 6' from floor In a room : H: 9' x W: 10' x D: 10'



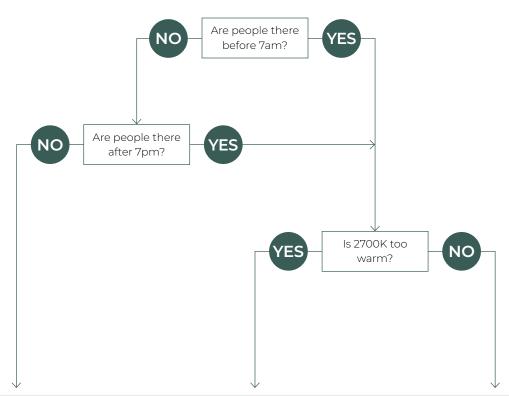






BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU		
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K		
Daytime solution	Daytime + evening solution	Daytime + evening solution		
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)		
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork		
Proprogram (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Deptine Full Bloc SkyBler Bio-Dimmingfu Bio-	Daytime Full BIOS SkyBlue?** (490mm) Bio.Dimmingf** Evening BIOS SkyBlue** Removed 0 40 60 20 70		









Technical Specifications

OPTICS

The ambient function is lensed with a High-Efficiency Lambertian Optic (HLO) while the exam function is lensed with a ribbed High-Efficiency Lambertian Optic (HLO). The reading function employs innovative HyFlex[™] optics for precise beam control.

LIGHT SOURCE

Static white

Mid flux LEDs with a CRI of 80+ are standard in static white. Optional BIOS LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms. 90 CRI and other high range TM-30-18 sources are also available upon request by consulting the factory. Static white LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours.

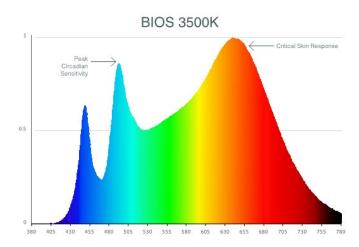
Full spectrum

The full spectrum LED option offers improved color particularly in the cyan region which helps increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms. The cyan region in full spectrum LED is richer at the 480 nm range.

BIOS

The SkyBlue[™] Technology option with Rize provides a modified white LED spectrum with peak intensity in the "sky blue" region (490 nm) to align better with the peak circadian stimulus. This can help regulate sleep/wake cycles and alertness.

The enhanced deep-red spectrum (near 660 nm) can improve visual diagnosis and treatment of a range of ailments, including more accurate vein delineation, essential for detecting cyanosis and administering medication.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 5 for details.

> 3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862 www.lumenwerx.com



FUNCTION CONTROL

The fixture offers a variety of controls:

- \cdot Wall multi-function switches supplied by others
- Patient pillow switch supplied & low voltage wall control (with LVC options)

Independent control

On/off control of each load - dimming available for dimmable loads.

Low voltage control

The low voltage controller (LVC) option allows control of the luminaire functions from a patient pillow switch, bed side rail, or wall switch with normally open momentary dry contacts. Depending on the number of modes to be controlled, various control options are available.

		Reading	Exam	Ambient
	LVC21		I	SM
2-function	LVC22		I	ST
LVC2	LVC23		I	I
-	LVC24		SQ	SQ
	LVC31	ST	I	ST
3-function	LVC32	SM	I	SM
LVC3	LVC33	I	I	I
	LVC34	SQ	I	SQ
SM : Smooth (I : On/Off cont	0	-	Sequential tep dimmir	nq

functions for the low voltage control scheme.



RIZE RECESSED LIGHT FOR HEALTH CARE



PoE

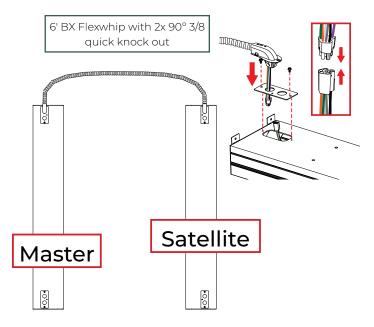
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery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

ELECTRICAL

The Rize comes with a master and satellite configuration. Power comes into the master housing and a low voltage quick connect is used to attached the satellite housing.

The low voltage cable connecting the master and satellite fixture is a 6' BX Flexwhip with 2 times 90° 3/8 quick knock out.

Each function is separately controlled with onboard drivers. Reading and Ambient functions come standard with constantcurrent drivers dimmable to 1% with 0-10V dimming control and high power factor. The Exam function utilizes a non-dimmable, constant current driver with high power factor. Fixtures can also be configured to employ a low-voltage controller (LVC) or additional control options subject to factory approval.



MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in drywall ceilings with trim, trimless, or mud flange options.

FINISH

Matte white, aluminum, or white antimicrobial Silverwerx powder coating. Custom finishes are also available.

CONSTRUCTION

Housing (RIZD): Extruded aluminum Housing (RIZSD): IP54 rated extruded aluminum housing sealed with a gasketed lens for extra protection. End caps: Aluminum Reflector: 98% reflective, white painted aluminum

Grid gasket (GGK option): 1/16" closed-cell silicone foam, assures a better seal between the fixture and the grid.

LENGTH

The fixture has a standard length of 4'.

WEIGHT 30 lbs - 13.6 kg

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. **Chicago Plenum**: City of Chicago Approved (CCEA) when specified with CP option.

WARRANTY

Lumenwerx provides a five-year limited warranty of 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.



