RSHL-C

Project Name:	
Type:	



APPLICATION

Family of direct and indirect luminaires component high reflectance. Recessed fixture with slope high transmission diffuser panels manage contrast and generate soft even higher angle luminance. Ideal for hospitals, hallway, conference rooms, offices, schools and other numerous other commercial applications.

FEATURES:

- Architectural low-profile design, shallow direct/ indirect housing, 22-gauge die formed C.R.S steel galvanized housing with high reflectance.
- Non-glare white powder coat finish over rust inhibiting phosphate coat for maximum corrosion resistance.
- Shallow recessed luminaires, available in dual enclosed lens configurations.
- 86% minimum average reflective white powder coat housing.
- Impact modified lens to be white translucent acrylic engineered optical uniformity and non-glare with a ribbed prism design. Tool-free removable and hingable from side.
- Interior ribbed acrylic lens for superior light uniformity and glare reduction
- Reflectors and shields in textured matte white powder coated finish.
- Wide distribution volumetric illumination.

MOUNTING:

- Recessed mount in expose T-bar ceilings, Internal T-bar safety clips.
- Field installed flange kits are available.
- Compatible with most ceiling types.

LED:

- Color Temperature: 3500/4000/5000 (K).
- LED Module: High efficency up to 162 LPW.
- Service life: Greater than 60,000 hours(L_{80}) minimizing maintenance frequency.
- Poke in wire connectors.
- Color variation within 3-step MacAdam ellipse.
- Custom watt / lumens are tuned in house, max:
  RSHL-22-C (up to 7,168 lm)
  RSHL-24-C (up to 12,000 lm)

ELECTRICAL:

- High power factor electronic driver, operate from a 108 ~ 305 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.90
- Class 2 and SELV
- 0-10V dimmable driver as standard.
- To find an approved dimmer switch, please see table1.
- Ambient Operating Temperature:
  -4°F (-20°C) ~ 122°F (50°C).

- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- “Watchdog” feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

LISTING:

- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- DLC premium listed. [2]
- CEC Compliant EM (please contact for more information)
- Recessed Luminaires, Type IC
- Suitable for damp locations.
- 5 year warranty.
- ARRA compliant (optional).
- BAA compliant (optional).
- Trade Agreements Act compliant (optional).
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	AC Input Wattage	Lumen Output (4000K)	Lumen Efficiency (4000K)
RSHL-C	1’ x 4’	34W	4284 lm	126 lm/W
	2’ x 2’	34W	4354 lm	128 lm/W
	2’ x 4’	45W	5861 lm	130 lm/W

	Multiplier		
CCT	3000K	3500K	5000K
1X4	0.9502	0.9837	1.0173
2X2	0.9891	0.9951	1.0119
2X4	0.9809	0.9980	1.0030



Lutron Vive Integral fixture control installation on RSHL-C

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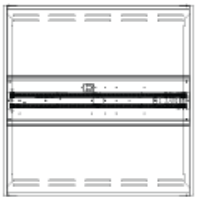
RSHL-C



AIR VENTS (optional)

RSHL-14-C-L36

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	473 fc	5.4 ft	7.2 ft
3.3ft	126 fc	10.4 ft	13.9 ft
5.0ft	54.7 fc	15.8 ft	21.1 ft
6.7ft	30.5 fc	21.2 ft	28.3 ft
8.3ft	19.9 fc	26.3 ft	35.0 ft
10.0ft	13.7 fc	31.6 ft	42.2 ft

Vert. Spread: 115.4°
Horiz. Spread: 129.3°

RSHL-22-C-L36

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	511 fc	6.8 ft	4.3 ft
3.3ft	136 fc	13.2 ft	8.3 ft
5.0ft	59.1 fc	19.9 ft	12.5 ft
6.7ft	32.9 fc	26.7 ft	16.8 ft
8.3ft	21.5 fc	33.1 ft	20.8 ft
10.0ft	14.8 fc	39.9 ft	25.0 ft

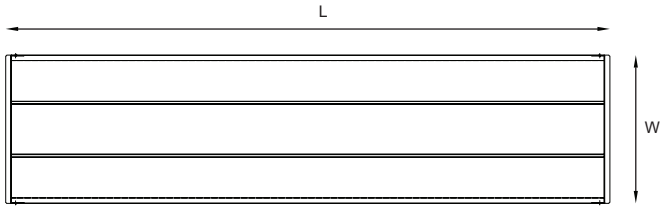
Vert. Spread: 126.7°
Horiz. Spread: 102.8°

RSHL-24-C-L42

Illuminance at a Distance

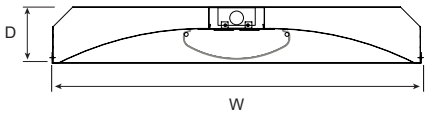
	Center Beam fc	Beam Width	
1.7ft	667 fc	7.3 ft	4.5 ft
3.3ft	177 fc	14.1 ft	8.8 ft
5.0ft	77.1 fc	21.4 ft	13.3 ft
6.7ft	42.9 fc	28.7 ft	17.8 ft
8.3ft	28.0 fc	35.6 ft	22.1 ft
10.0ft	19.3 fc	42.9 ft	26.6 ft

Vert. Spread: 130.0°
Horiz. Spread: 106.2°



Specifications: 1'x4'

Length: 47.8 (1213)
Width: 11.75 (298)
Depth: 2 (50)
Weight: 7.7 lbs (3.5 kg)



Specifications: 2'x2'

Length: 24 (608)
Width: 23-11/16 (602)
Depth: 3-15/32 (88)
* Depth increased up to 5.2" (132) with SMK option.
Weight: 10.8 lbs (4.9 kg)

Specifications: 2'x4'

Length: 48 (1218)
Width: 23-11/16 (602)
Depth: 3-15/32 (88)
* Depth increased up to 5.2" (132) with SMK option.
Weight: 21.16 lbs (9.6 kg)

All dimensions are in inches (millimeters).

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RSHL-C

ORDERING INFORMATION

EXAMPLE: *RSHL-24-C-L42-40K-UNV-DM*

MODEL	SIZE		SHIELD		LED		COLOR TEMP.		EFFICACY		CRI		MOUNTING	
RSHL	**14**	1' x 4'	**C**	Center	**L36**	34W	**-27K**	2700K [12]	**(Blank)**	Standard	**(Blank)**	80+ CRI	**(Blank)**	Grid
	22	2' x 2'			**L36**	34W	**-30K**	3000K	**HE**	High Efficacy 10%	**C9**	90+ CRI [11]	**FK**	Flange [1]
	24	2' x 4'			**L42**	45W	**-35K**	3500K					**SMK**	Surface Mount Kit [13]
					* Contact factory for custom wattage or lumen requirement. [4]		**-40K**	4000K (Std.)						
							-50K	5000K						

DIFFUSER		VOLTAGE		LED DRIVER	
(Blank)	Acrylic Diffuser with Overlay	**UNV**	120-277V	**DM**	Dimming Ballast 10~100% dim (Std.)
		120	120V	**DM1**	Dimming Ballast 1~100% dim
		277	277V	**SD40**	40% / 100% Bi-Level Step dim
				SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10%~70%)
				TDM	Triac Dim. (120V only)
				TD30/70	30% / 70% / 100% Tri-Level Step dim
				TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%)
				LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim
				ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)
				PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.
				TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface
				ED560	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%
				LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)
				PHDL	Philips Xitanium Sensor-Ready, Dali 5%~100% dim
				BLT	Bluetooth Mesh System (contact factory for more information)

OPTIONS		LIGHTING CONTROL SYSTEM	
EMG8	1296 LUMEN EM Battery Backup (CEC Compliant EM) [3]	**HC403**	Integrated Microwave bi-level Occupancy Sensor
EMG15	2430 LUMEN EM Battery Backup (CEC Compliant EM) [3]		<Lutron Vive System Enabled>
EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) [3]	**LUTRON VIVE**	Click Here!
EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) [3]		
ELCU-200	Fail-to-on Emergency lighting, UL924 [6]		<EasySense>
GTD	Bodine Generator Transfer Device	**SNS200**	EasySense Fixture-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) [7, 9]
GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)	**RS-IR**	IR dongle v2.0 for EasySense control
PW6-185	3/8" Flex with 0-10V Dimming Leads		<Enlighted>
ARRA	Assembled in USA for Buy American act	**SU-5E**	Enlighted IoT ready 0-10V Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled (Must be ordered with TRIOT) [8]
BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant	**RS-WS**	Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
TAA	Trade Agreements Act compliant		
O7W	Optional 7 Years Limited Warranty [5]		<Bluetooth>
O10W	Optional 10 Years Limited Warranty [5]	**PPA102S**	Bluetooth Powerpack (Consult factory for installation location)
AIR	Air Supply/Return [10]	**CASAMBI**	Contact factory for CASAMBI READY options

NOTES:
1. Flange kits are supplied in separate boxes, field installed.
2. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified.
   Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
3. Contact factory for other emergency ballast options.
4. Custom wattage products are not DLC qualified.
5. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
6. Shipped separately.
7. See NFC and IR manual in the separate attachment. If your phone is not compatible, please order "RS-IR" and follow the manual.
8. "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
9. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
10. 10-12 weeks lead time. 100 pcs MOQ.
11. Lumen per watt is around 15% less than standard CRI (80+).
12. Available with C9 (90+ CRI) only.
13. Not available with RSHL-14.

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RSHL-C

COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<Philips>	Sunrise : SR1200ZTUNV
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<Merten>	5729
		<Pass & Seymour>	CD4FB-W
		<Wattstopper>	DCLV1
		<Sensor Switch>	nIO EZ
		<Synergy>	ISD BC
		<ABB>	SD/S 2.16.1
		<Lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLVV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
ED560	eldoLED DUALdrive	<Lunatone>	SS-LUNAT PS2 30mA SS-LUNAT Touch or BT SS-LUNAT Comm
LDE1	Lutron Hi-lume 1% Eco-System	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO [1, 2] Energi Savr Node (120V only): QSN-1EC0-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGR-_E Quantum Hub (120V only): QP2-_ _2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
PHSR [3]	Philips Xitanium Sen-sor-Ready	<Illumra>	Single Rocker Self-Powered Light Switch (on/off, dim-up/down) Illumra# ZBT-S1AWH Digi-Key# 1082-1033-ND Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2) Illumra# ZBT-S2AWH Digi-Key# 1082-1034-ND
TDM	KEYSTONE	<Lutron>	Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW
		<Leviton>	6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<Lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<Lutron>	Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

NOTES:
1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.
   For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.
3. Recommended for EasySense System.

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