

# RDI QS LED

Project Name:	
Type:	



### APPLICATION

This attractive recessed fixture with a symmetric center basket provides soft ambient in direct and indirect lighting. High performance of direct and indirect lighting fixture reduces shadows and glare by combining aesthetically pleasing reflect lights. It is an excellent choice for modern office environments, classrooms, hospitals and retail spaces.

### FEATURES:

- Die formed, cold-rolled, heavy gauge steel housing construction provides durability and strength.
- White powder coated housing with frosted acrylic ribbed diffuser center baskets and reflector.
- Slope side softly reflect light back downwards.
- Smooth edges for easy handling.
- T-bar safety clips are standard. (compatible with 15/16 and 9/16 T-grid ceiling)
- Reflectors were finished in textured matte white powder coated paint for uniform light distribution and over rust inhibiting phosphate coating.
- PAF (Painted After Fabrication) finish is standard for corrosion resistance and efficiency.

### SHIELDING:

- Available in frosted acrylic ribbed diffuser or white metal round holes (perforation) with white acrylic overlay.
- For higher lumen requirement, use DF2.
- Toolless.

### MOUNTING:

- Recessed mount in expose T-bar ceilings, Internal T-bar safety clips.
- Field installed flange kits are available.
- Suitable for direct insulation contact.

### LED:

- High quality array LEDs.
- LM80.
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color Rendering Index: > 82.8
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

### ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class 1 or Class 2 circuit.
- Philips Xitanium: 0-10V Dim to 1%(PH).
- Osram Optotronic: 0-10V Dim to 1%(OS1) or 10%(OS).
- Generic : 0-10V 10% dim. (GR)
- 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.
- Suitable for damp locations.
- IC Rated.
- CEC Compliant EM (please contact for more information)
- ARRA compliant. (optional)
- BAA compliant (optional)
- 5 years limited warranty.
- 7 or 10 years limited warranty. (optional) <sup>2</sup>
- Bluetooth Mesh System available, please contact factory for more information.

### CONFIGURATIONS

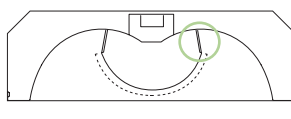
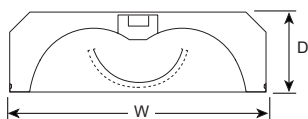
Catalog No. #	Input Watts	Lumen Output (DF1)	Lumen Output (DF2)	Lumen Efficiency (DF1/DF2)	Equivalent
RDI-14-36L/40-UNV-DM	39.6W	2752 lm	3124 lm	69.5 lm/W / 78.9 lm/W	2L 32W T8
RDI-14-44L/40-UNV-DM	48.4W	2899 lm	3818.7 lm	59.9 lm/W / 78.9 lm/W	2L 32W T8
RDI-14-54L/40-UNV-DM	59.4W	4211.4 lm	4740 lm	70.9 lm/W / 79.8 lm/W	3L 32W T8
RDI-22-27L/40-UNV-DM	29.7W	2390.8 lm	3507.5 lm	80.5 lm/W / 118.1 lm/W	3L 17W T8
RDI-22-36L/40-UNV-DM	39.6W	3187.8 lm	4676.7 lm	80.5 lm/W / 118.1 lm/W	2L 32W T8
RDI-22-44L/40-UNV-DM	48.4W	3896.2 lm	5716 lm	80.5 lm/W / 118.1 lm/W	2L 32W T8
RDI-22-54L/40-UNV-DM	59.4W	4781.7 lm	7015 lm	80.5 lm/W / 118.1 lm/W	3L 32W T8
RDI-24-31L/40-UNV-DM	36W	3400 lm	5541.8 lm	95.4 lm/W / 153.94 lm/W	2L 32W T8
RDI-24-36L/40-UNV-DM	39.6W	3777.8 lm	6096 lm	95.4 lm/W / 153.94 lm/W	2L 32W T8
RDI-24-44L/40-UNV-DM	48.4W	4617 lm	7450.6 lm	95.4 lm/W / 153.94 lm/W	2L 32W T8
RDI-24-54L/40-UNV-DM	59.4W	5666.7 lm	9144 lm	95.4 lm/W / 153.94 lm/W	3L 32W T8
RDI-24-68L/40-UNV-DM	74.8W	7136 lm	11514.7 lm	95.4 lm/W / 153.94 lm/W	4L 32W T8

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

### OUTPUT CURRENT

		Bi-Level		Tri-Level (Default)	
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

# LED RECESSED DIRECT/INDIRECT CENTER BASKET



[ DPL lens option ]

[w/ sensor]

**Specifications: 1'x4'**

Length: 47-3/4 (1213)  
Width: 11-15/16 (303)  
Depth: 5-1/2 (140)  
Weight: 17.48 lbs (7.93 kg)

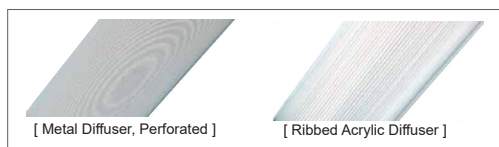
**Specifications: 2'x2'**

Length: 23-3/4 (603)  
Width: 23-15/16 (608)  
Depth: 5-1/2 (140)  
Weight: 16.38 lbs (7.43 kg)

**Specifications: 2'x4'**

Length: 47-3/4 (1213)  
Width: 23-15/16 (608)  
Depth: 5-1/2 (140)  
Weight: 24.10 lbs (10.93 kg)

All dimensions are in inches (millimeters).



[ Metal Diffuser, Perforated ]

[ Ribbed Acrylic Diffuser ]


## ORDERING INFORMATION

EXAMPLE: RDI-24-QS36L-40K-DF2-UNV

MODEL	SIZE	LED	COLOR TEMP.	EFFICACY	CRI	AIR FUNCTION	TRIM TYPE
RDI	14 1' x 4'	QS 36L 36W LED QS 44L 44W LED QS 54L 54W LED	-27K 2700K <sup>6</sup> -30K 3000K -35K 3500K -40K 4000K -50K 5000K	(Blank) Standard High Efficacy	(Blank) C9 80+ CRI 90+ CRI <sup>7</sup>	(Blank) Non Air Supply (Std.)	(Blank) FK Grid Flange <sup>1</sup>
	22 2' x 2'	QS 27L 27W LED QS 36L 36W LED QS 44L 44W LED QS 54L 54W LED					
	24 2' x 4'	QS 31L 31W LED QS 36L 36W LED QS 44L 44W LED QS 54L 54W LED QS 68L 68W LED					
* Contact factory for custom wattage or lumen requirement.							

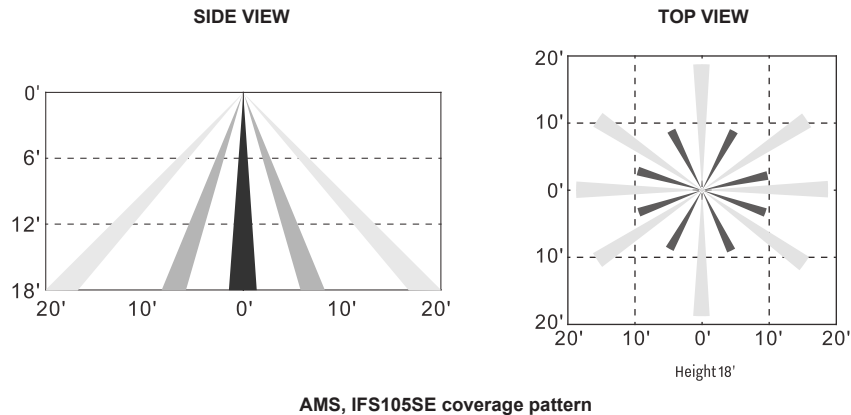
DIFFUSER		VOLTAGE		LED DRIVER <sup>5</sup>			
DF1	Metal Diffuser, Perforated	UNV	120-277V (Std.)	GR	Generic, 0-10V 10% dim (Std.)		
DF2	Ribbed Acrylic (.100" thk)	120	120V	DM1	Generic 0-10V 1% dim		
DF2H	Impact resistant Ribbed Acrylic Diffuser	277	277V	PH	Philips Xitanium, 0-10V 1% dim		
		347	347V	OS	Osram Optotronic, 0-10V 10% dim		
				OS1	Osram Optotronic, 0-10V 1% dim		
				SD40	40% / 100% Bi-Level Step dim (PH only)		
				SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) (PH only)		
				TDM	Triac Dim. (120V only)		
				TD30/70	30% / 70% / 100% Tri-Level Step dim (PH only)		
				TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) (PH only)		
				ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim		
				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.		
				PHDL	Philips Xitanium DALI driver, Dim to 5%		
				TRIOT	Tridonic IoT ready, 1-100% dim via Smart Module Interface (SMI), automated dimming/lighting controls via Enlighted Sensor Interface		
				DMX	DMX512 control system (Only available with RGB+W option)		
				DLM	Wattstopper's DLM interface (Only available with RGB+W option)		
				ED560	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%		
				LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)		
				BLT	Bluetooth Mesh System (contact factory for more information)		

# RDI QS LED

OPTIONS		LIGHTING CONTROL SYSTEM	
<b>EMG8</b>	1296 LUMEN EM Battery Backup (CEC Compliant EM) <sup>4, 13</sup>	<b>AMS</b>	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
<b>EMG15</b>	2430 LUMEN EM Battery Backup (CEC Compliant EM) <sup>4, 13</sup>	<b>DPMS</b>	Daylight Dimming Photo Sensor (0-10 VDC Control), (LSR-301-S required if FD-301 is installed) <sup>15</sup>
<b>EMG20</b>	3240 LUMEN EM Battery Backup (CEC Compliant EM) <sup>4, 13</sup>	<b>HC403</b>	Integrated Microwave bi-level Occupancy Sensor
<b>EMG25</b>	4050 LUMEN EM Battery Backup (CEC Compliant EM) <sup>4, 13</sup>		<Lutron Vive System Enabled>
<b>ELCU-200</b>	Fail-to-on Emergency lighting, UL924 <sup>9</sup>		
<b>GTD</b>	Bodine Generator Transfer Device	<b>LUTRON VIVE</b>	 <a href="#">Click Here!</a>
<b>GTD10DIM</b>	Bodine Generator Transfer Device (0-10VDC Dimmer Override)		<Enlighted>
<b>PW6</b>	Pre-wired 6' Whip Flex #18/3	<b>SU-5E-IoT</b>	Enlighted IoT-Ready Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled <sup>10, 14</sup>
<b>DPL</b>	Dust/Bug Proof Clear Acrylic Lens <sup>8</sup>	<b>SU-5E-CL</b>	Enlighted Indoor Micro sensor with occupancy/vacancy detection, daylight harvesting, thermal sensing, task tuning, and room and zone control, Bluetooth enabled (Connected lighting sensor only)
<b>ARRA</b>	Assembled in USA for Buy American act	<b>RS-WS</b>	Enlighted Room controller providing basic control functions of a standard wall switch with preset dimming capability
<b>BAA</b>	BAA(Buy American Act) and BABA(Build America Buy America) compliant		<EasySense>
<b>SO</b>	Dimming Wires connected to Sensor Only (available option on FS-205 non-Bluetooth AMS sensor only) <sup>3</sup>	<b>SNS200C</b>	EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) <sup>11, 12</sup>
<b>LSR-301-S</b>	Setup Remote Control for DPMS (Required for DPMS)	<b>RS-IR</b>	IR dongle v2.0 for EasySense control
<b>LSR-301-P</b>	Occupant Remote Control for DPMS		<Bluetooth>
<b>O7W</b>	Optional 7 Years Limited Warranty <sup>2</sup>	<b>IFS105SE</b>	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
<b>O10W</b>	Optional 10 Years Limited Warranty <sup>2</sup>	<b>PPA102S</b>	Bluetooth Powerpack (Consult factory for installation location)
<b>AMB</b>	Anti-Microbial Coating (Matte Skye White)		

NOTES:

1. Flange kits are supplied in separate boxes, field installed.
2. 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)
3. Dimming wires provided and connected to sensor only, not for dimmer switch. (available with AMS and DPMS option)
4. Contact factory for other emergency ballast options.
5. To find an approved dimmer switch, please see table 1.
6. Available with C9 only.
7. Lumen per watt is around 15% less than standard CRI (80+).
8. Available with DF1 option only. (or a combination of DF2)
9. Shipped separately.
10. "RS-WS" option can be added if wish to have a wall switch, please see Enlighted Room Controller in the separate attachment.
11. See NFC and IR manual in the separate attachment. If your phone is not compatible, please order "RS-IR" and follow the manual.
12. Refer to Advanced Grouping Datasheet for its default setting and compatible wireless switches.
13. Must specify voltage, not available with 347V.
14. Must be ordered either with 0-10V LED driver or TRIOT (IoT-Ready LED driver).
15. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.



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COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IlumaTech IP7 series
		<Lutron>	Visit <a href="http://www.lutron.com/advance">www.lutron.com/advance</a> 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>	IlumaTech - 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-TV1 w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-A08, 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 <sup>1,2</sup> Energi Savr Node (120V only): QSN-1ECO-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 <sup>3</sup>	Philips Xitanium Sensor-Ready	<Ilumra>	<u>Single Rocker Self-Powered Light Switch (on/off, dim-up/down)</u> Ilumra# ZBT-S1AWH Digi-Key# 1082-1033-ND <u>Dual Rocker Self-Powered Light Switch (on/off, dim-up/down, scene1,2)</u> Ilumra# 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, IlumaTech 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 <a href="http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf">http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf</a> 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](http://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.