Lumination

CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

LVR 22 Series

Refit™ Kit | 2' x 2' LED Recessed Luminaire

The **Lumination® LVR** is a volumetric LED refit door kits offering a designer touch to any drop ceiling landscape. Designed specifically for retrofit into an existing back box, these distinctive products provide a beautiful three-dimensional look in an easy-to-install LED solution. They feature a curved diffused lens with smooth uniform light (no pixels or stripes) and delineated details to create visual interest in any ceiling with energy-saving and long-life advantages of LED.

CONSTRUCTION

Housing:	Steel, electrogalvanized, cold-rolled
Lens:	Precision formed diffuse lens
Paint:	Highly reflective matte finish
Weight:	<11 lb
Optical Assembly:	Precision formed optical lens/diffuser and technically balanced for efficacy, and transmisivity. This offers smooth uniform light (no pixels or stripes) and no dark areas on lens.

OPTICAL SYSTEM

Lumens:	2000-5000
Wattage:	Standard: 16.5 - 41.0 watts High Performance 15.5-31.0 watts
Efficacy:	Standard: 108 - 122 LPW High Performance: 129 LPW
CCT:	3000K, 3500K, 4000K, 5000K
CRI:	80+, Trigain® >90
Color Consistency:	Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control
R9:	>0 (835/840/850), >90 (T35,T40)

ELECTRICAL

Input Voltage:	120–277V & 347V
Input Frequency:	50/60Hz
Power Factor (PF)*:	>0.9*
Total Harmonic Distortion (THD)*:	<20%*
Surge Protection:	ANSI C82.77 Compliant
LED Driver Type:	Class 2

*** PF and THD may vary with options**

CONTROLS

Dimming:	Standard 0–10VDC,10%
Controls/ Sensor:	High-end trim, occupancy and ambient light detection with dimming available. Wireless Daintree® options available.
DLC 5.1 LLLC:	Integrated/embedded networked lighting control, luminaire-level lighting control (LLLC)

AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-20°C to +35°C (-4°F to 95° F)
STORAGE TEMPERATURE	-40°C to +70°C (-40°F to 158° F)

LUMEN MAINTENANCE

LUMINAIRE LUMEN DEPRECIATION @ 50,000 HR	STANDARD PERFORM. REPORTED 60,000 HR	PREMIUM PERFORM. REPORTED 36,000 HR	HIGH PERFORM. REPORTED 90,000 HR
L85	L88	L90	L77

ADDITIONAL FEATURES

- **Typical Mounting:** Fits standard T-Bar grid (drop ceilings)
- **Optional Emergency Battery:** Provides 90-minutes of Emergency lighting. Note: EL option is not available with 347V option, test button is remote mounted in the field.
- **Optional Chicago Plenum:** Openings in recessed fixture sealed per requirements for CCEA.

DESIGN LIFE & WARRANTY

- **Reliability Testing:** Components and/or systems evaluation at extreme conditions and monitored during production.
- Please refer to the DLC QPL website for the latest and most complete information: http://www.designlights.org/QPL
- Damp Location Rated
- Type IC Rated
- RoHS compliant
- **Current's Limited 5-year Warranty:** Please see website.

Daintree WIRELESS CONTROLS · TriGain technology · LUTRON · 5 YEAR WARRANTY · DAMP RATED · ANSI C82.77 · CP Chicago Plenum · DLC LISTED PREMIUM · DLC LISTED · RoHS COMPLIANT · UL CERTIFIED

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ORDERING INFORMATION

LVR 22 B - - XX - - - - - - - - RM - - - - - -

PRODUCT ID	FAMILY TYPE	GEN.	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LVR = Lumination® Volumetric Refit™	**22** = 2' x 2'	**B** = 2nd Gen	**0** = 120 - 277 **D** = 347	**XX** = Nominal Lumen Level	**MM** = Med. Curved **SS** = Med. Rectangular	**830** = 80CRI, 3000K[1] **835** = 80CRI, 3500K **840** = 80CRI, 4000K **850** = 80CRI, 5000K[1] **T35** = TriGain, 90CRI[8], 3500K **T40** = TriGain, 90CRI[8], 4000K	**SEE CHART BELOW**	**RM** = Refit™ Mount	**WHTE** = White **WHAM** = White Antimicrobial Paint	**(blank)** = None **CP** = Chicago Plenum **EL**[3] = Emergency Battery **B2**[4] = Emergency Bypass -Dual Shunt Relay to be used with building generator back up systems to override dimming -Not available in 347V **DF**[9] = Dim-to-off (must be ordered with V1 Controls code) **HP**[5] = High Performance **W3** = 6' Whip, 4 Wire: Ground, L1, L2, EL Sense **W5** = 6' Whip, 6 Wire: Ground, L1, L2, EL Sense, dimming leads

STANDARD PERFORMANCE[5]:			
EXAMPLE CONFIGURATION	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LVR22B020MM8_ _VQRMWHTE	2000	16.5	121
LVR22B033MM8_ _VQRMWHTE	3300	29.0	114
LVR22B040MM8_ _VQRMWHTE	4000	37.0	108
LVR22B050MM8_ _VQRMWHTE	5000	41.0	122

HIGH PERFORMANCE[5]: (ONLY AVAILABLE IN 90 CRI)			
EXAMPLE CONFIGURATION	LUMINAIRE LUMENS[6]	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LVR22B020MMT_ _VQRMWHTEHP	2400	19.0	126
LVR22B033MMT_ _VQRMWHTEHP	3300	25.5	129
LVR22B040MMT_ _VQRMWHTEHP	4000	31.0	129

Ordering Notes:

1. Contact manufacturer for lead times
2. Most commonly ordered for Daintree Enterprise Wireless Enabled
3. Test switch is remote mounted in the ceiling, EL option not available in 347V
4. Contact manufacturer prior to ordering to confirm application
5. Most Standard and HP (High Performance) base SKU's are DLC, there are exceptions for 347V and EL for meeting PF and/or THD results. Please check the DLC QPL
6. 5000 lumens not available in High Performance
7. See product specifications section: Controls on page 4 for additional Daintree system details
8. 90 CRI Trigain® is only available on HP (high performance) SKU's
9. Must be ordered with V1 (1% Diming) controls code
10. Not available with Emergency Bypass option

CONTROLS CODE	DESCRIPTION
V1	0-10v Dimming (1%)
VQ	0-10v Dimming
TQ[2]	Daintree Enterprise Wireless Enabled
TS	Daintree Enterprise Wireless Enabled with Daintree WFA100
TZ	Daintree Enterprise Wireless with fixture integrated sensor
TT	Daintree EZ Connect Wireless with fixture integrated sensor
T1[4]	Daintree One with fixture integrated sensor with factory programmed preset
SQ	Digital Input Driver (does not have 0-10v input) that uses a field installed accessory (in the ceiling -not the fixture) that is Daintree compatible such as Daintree One, EZ Connect or Enterprise sensors
LB[10]	Lutron Vive - VDO or DFCSJ OEM OCC Integral Fixture Control with Sensor Daylight and Occupancy
LU[10]	Lutron Vive - VRF or DFCSJ OEM RF Integral Fixture Control (RF only) No sensor

SENSOR KIT (FOR SQ CONTROL OPTION ONLY)	PRODUCT CODE
Daintree One/EZ Connect: LSAATT/T1FM6 (WIT100 Sensor Kit)	93098472
Daintree Enterprise: LSAATZFM6(WIZ100 Sensor Kit)	93098473
Daintree Ent. Multi Sensor: LSAATMFM6 (WMZ10 Sensor Kit)	93119594

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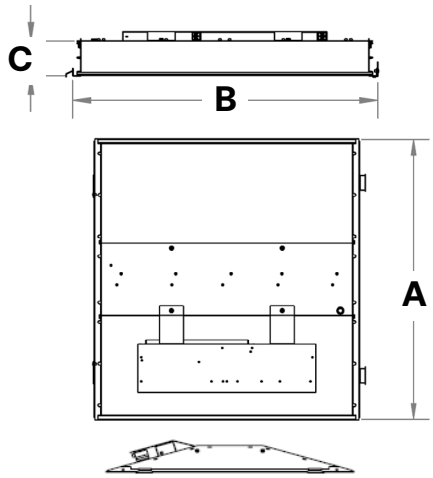
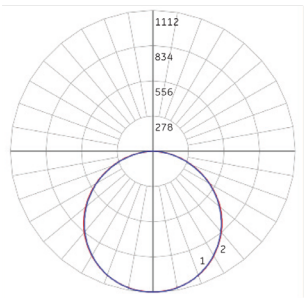
PRODUCT DIMENSIONS



A	23.0 in
B	21.7 in
C	2.5in

PHOTOMETRIC DATA:

LVR 22
3299.98 LM



ZONE	LUMENS
0–10	105.23
10–20	302.53
20–30	460.02
30–40	557.81
40–50	583.15
50–60	532.83
60–70	414.99
70–80	251.86
80–90	79.83
90 – 100	1.97
100 – 110	1.63
110 – 120	1.59
120 – 130	1.54
130 – 140	1.52
140 – 150	1.37
150 – 160	1.04
160 – 170	0.78
170 – 180	0.29

ZONE	LUMENS	% OF FIXTURE
0–20	407.76	12.40
0–30	867.78	26.30
0–40	1425.59	43.20
0–60	2541.57	77.00
0–80	3208.42	97.20
0–90	3288.25	99.60
10 – 90	3183.02	96.50
20 – 40	1017.82	30.80
20 – 50	1600.97	48.50
40 – 70	1530.98	46.40
60 – 80	666.85	20.20
70 – 80	251.86	7.60
80 – 90	79.83	2.40
90 – 110	3.60	0.10
90 – 120	5.19	0.20
90 – 130	6.73	0.20
90 – 150	9.62	0.30
90 – 180	11.73	0.40
110 – 180	8.13	0.20
0 – 180	3299.98	100.00

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DAINTREE CONTROLS

Daintree® Wireless Controls:
There is no one size fits all for wireless controls. Some networks want simple solutions that reduce energy consumption and meet code compliance while others are more ambitious, looking to capitalize on the LED and controls savings to fund a scalable, enterprise-grade, internet of things solution. The advantage of the Daintree® Wireless platform is it’s ability to integrate into indoor, outdoor and high bay environments. The Daintree® Wireless Controls provide the infrastructure to future proof your buildings, easily upgrade to Networked solutions and provide the ability to integrate into IoT solutions that are right for your business.

- **Daintree® One:** Standalone Wireless Controls
- **Daintree® EZ Connect:** Room-Based Wireless Lighting Controls
- **Daintree® Networked:** Networked Lighting Controls for Smart Building & IoT Enablement.

Daintree® Wireless Controls are already integrated in your favorite Current LED fixtures. Integrating the controls into the fixture cuts labor costs considerably since the sensors are already embedded in the lighting fixtures. There’s no need to get above the ceiling plenum and install additional devices. Visit our website LED.com for a complete list of LED Fixtures.

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