

#### **Ovation Series Retrofit Kit**

Prefix: KVN22

The Ovation Series LED Retrofit system has been developed to dramatically improve existing recessed troffer performance using Solid State Lighting (SSL) technologies. The Ovation retrofit series provides an attractive, energy efficient architectural look which has been specifically designed to upgrade existing fluorescent recessed troffer style fixtures. Comfortable, low glare, uniform lighting is attributed to this style of retrofit. Typical applications for this type of product are interior spaces where finished ceilings and walls exist. Applications Include:

- $\bullet \ Commercial/Corporate \ Of fice \ Spaces$
- Retail Spaces, Public Spaces and Airports
- Schools, Colleges and Universities
- Hospitals, Government Facilities and Military Bases



# DLC Application Category #14 "Integrated Retrofit Kits for 2x2

Luminaires"

DesignLights Consortium® (DLC) qualified product. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions

Not all versions of this product may be DLC qualified. are qualified.

project:		
fixture type:		
catalog #:		
quantity:		

**KVN** 

PRFFIX/

**SERIES** 

KVN - Ovation

Series Retrofit

Kit

22

SIZE

**22-**2x2

OPTICS (DISTRIBUTION) N - Normal

(15.1W)(29.2W) (39.6W)

OUTPUT\* **L015** - 1500 (11.7W) **L020** - 2000 **L030** - 3000 **L040** - 4000 **L050 -** 5000 **L060** - 6000 (48.3W)

Lxxx - Custom

(Specify)

LUMEN

DRIVER VOLTAGE UNV - Universal Voltage (120v - 277v) (50/60 Hz)

TYPE DM - 0-10v Low Voltage Dimming (10% - 100% (Standard) DM1 - 0-10v Low Voltage Dimming (1% - 100%) LH1 - Lutron Hi-Lume\* Dimming (1% - 100%) LV - Line Voltage\* Dimming (120V only) DA1- Dali-2 and D4i cert Dimming (1% - 100%) Only

DRIVER

COLOR TEMP. C27 - 2700 K\*

C30 - 3000 K\* C35 - 3500 K **C40** - 4000 K **C50 -** 5000 K\*

\*Special

LENS CRI (DIFFUSER)

Blank-80CRI AF - Frosted Linear 9-90 CRI\* Prism Acrylic Lens S-Sunlike (Standard) 95 CRI\*

Only

OPTIONS

AR - Air Return Slots MPCxv - Metal Pan Ceiling†† HDCxyz- Hard Ceiling ††

SNS21x - Philips Wireless Sensor (EasySense)†††

SVP-Silvair PIR Wireless Sensor\*\*\* SVM-Silvair Microwave Sensor\*\*\*\*

LAR- Lutron Athena Wireless control RFOnly\*\*\*\*\*

LAP - Lutron Athena Wireless PIR Senosor<sup>††</sup> LVR- Lutron Vive Wireless control RF

Only LVP-Lutron Vive Wireless PIR Sensor † † 1

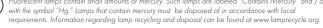
WLI-Wave Linx Integral PIR Sensor\*\*\*

Axx - Auxiliary output 12 or 24V EM - Emergency Battery Pack †

 $<sup>\</sup>dagger$   $\dagger$   $\dagger$   $\dagger$   $\dagger$  RF sensors provide: Wireless fixture control only. (Wireless controls must be located within 60 ft (18 m) from each other in the line of sight, or 30 ft(9 m) through walls)



PRIOR TO RETROFITING THE EXISTING FLUORESCENT FIXTURE, PLEASE NOTE THE FOLLOWING: Fluorescent lamps contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and / or





<sup>†</sup> Standard "EM" option to be NiCd Battery @ 5 Watts constant power @ 90 min. duration (standard). Consult factory for all available options.

<sup>† †</sup> See page 2/4 for more information on dimensional requirements.

 $<sup>\</sup>dagger$ † † PIR sensors provide: Occupancy/Vacancy, Daylight Harvesting, Task Tuning & Advanced Grouping control options. (max 12 ft mounting height, highbay options available upon request)

<sup>† † † †</sup> Microwave sensor provides: Occupancy/Vacancy, Task Tuning, Energy Monitoring & Advanced Grouping control options. (Sensor not visible from exterior of fixture, max 12 ft mounting height)

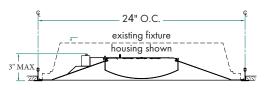
Prefix: KVN22

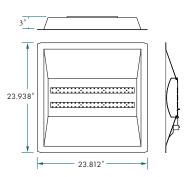


#### **Ovation Series Retrofit Kit**

#### **KVN 2x2 Cross Section**

## T-GRID Mount (Standard)





#### CONSTRUCTION

- Precision die-formed from 22 gauge cold rolled steel. (Other gauges available upon request)
- Mechanically fastened / resistance welded.
- Consult factory for all options or any modifications needed.

### **FINISH**

 High Reflectance Matte White polyester powder coat baked enamel for extreme durability and superior fixture efficiency. Total Reflectance = 97%.

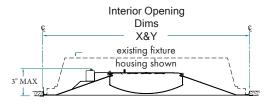
#### LED's/OPTICS

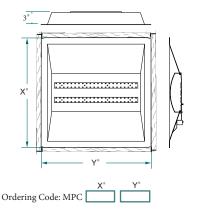
- High performance LED boards manufactured specifically for interior lighting. LED boards feature the most current LEDs for maximum performance, efficiency and longevity.
- Standard color temperatures offered are 3500K and 4000K. Consult factory for all other color temperature options. 80 CRI (Minimum) standard, 90 CRI and Sunlike 95 CRI Options available.
- RoHS Compliant.
- Always consult factory for the latest developments and improvements concerning LEDs and Optics.

#### NOTES:

LED Drivers have adjustable output capability. A wide range of input watts/lumen output can be adjusted up or down on all models to suit a particular application. Always consult factory for the latest information.

#### Metal Pan Mount (MPC)





#### **DRIVERS**

- Electronic, constant current type. Universal voltage (120v-277v).
- 0-10v dimmable. 10-100% (Standard) 1-100% (Optional).
- Line Voltage Dimming Drivers are optional.
- Auxiliary output (Optional) used to power various sensors / wireless modules. (12 or 24Vdc options specify when ordering)
- Suitable for dry and damp locations.
- UL Recognized Class P, RoHS Compliant.

#### LENS (DIFFUSER)

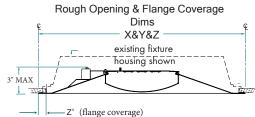
- Extruded from 100% clear, virgin acrylic.
- Extruded linear ribs provide clean, aesthetic architectural look.

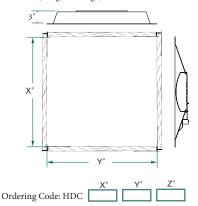
#### MOUNTING

 Retrofit kit is designed to be mounted into an existing prismatic or parabolic troffer installed into a standard grid (NEMA "G") or narrow grid (NEMA "NFG") ceiling T-grids. Consult factory for all other special mounting conditions.

Photometric data, IES files and all other information is available on request.

## Hard Ceiling Mount (HDC)





### ELECTRICAL

- Retrofit kits are UL/CUL Class II listed and labeled.
- LM80 performance for 50,000+ hours
- Driver disconnect provided where required to comply with US & Canadian codes.

#### QUALITY CONTROL

 All retrofit kits are designed, fabricated, painted, assembled, tested, packaged and shipped from RENOVA's manufacturing facility in Warick, RI (USA).

#### WARRANTY

 5-year limited warranty. Please refer to RENOVA's website at www.renova.com/sales/ warranties for the latest warranty terms and conditions.

RENOVA products are constantly being improved; therefore the information shown is subject to change without notice. Always consult your lighting representative or RENOVA Lighting Systems, Inc., for the latest information.





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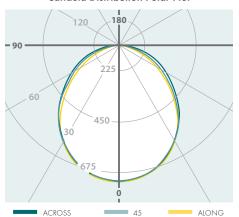


Catalog #: KVN22-N-L020-UNV-DM-C40-AF Photometric Test Report #: 10551935-803984

Delivered Lumens: 2029 Efficacy (Lumens/Watt): 121.5 Power: 16.73w @ 120 VAC Power Factor: 0.991 Current THD: 5.13% CRI: 82.7

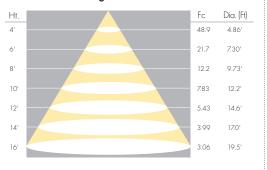
CCT: 3924 K LED Life: 50,000+ hrs

#### **Candela Distribution Polar Plot**



Spacing/Mounting Height: 1.2 SC (Along): 1.2 SC (Across): 1.2

#### **Cone of Light Tabulation**



#### Coefficients of Utilizations (%) Effective Floor Cavity Reflectance 20 Per (pfc=0.20) pcc β RCR

#### Luminance Summary CD./SQ.M.

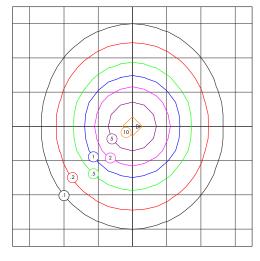
Angle	Along	45.0	Across
45	2272	2413	2469
55	1941	2171	2312
65	1584	1954	2237
75	1242	1834	2187
85	828	1480	1567

#### **Zonal Lumen Summary**

Zone	Lumens	% Luminaire	
0-30	599	29.52	
0-40	966	47.63	
0-60	1633	80.49	
0-90	2029	100.00	
40-90	1063	52.37	
60-90	396	19.51	
90-180	0	0	
0-180	2029	100.00	

#### **Horizontal Footcandles**

Mounting Height = 8"-0' A.F.F. Maximum Calculated Value = 12.23 Fc



#### Grid Lines in Units of Mounting Height









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### KVN Series LED Luminaires Listed on the DLC Qualified Products List (QPL)

RENOVA Catalog Number	Delivered Lumens	Input Watts	Lumens per Watt	DLC – QPL Classification
KVN22-N-[L015 to L060]-UNV-DM- C35-AF-SNS[2,3]00-[BLANK, EM, AR]	1500-6116	Varies by Output	128.60	Standard
KVN22-N-[L015 to L060]-UNV-DM- C35-AF-SNS[2,3]00-[BLANK, EM, AR]	1500-6116	Varies by Output	130.34	Standard
KVN22-N-L020-UNV-DM-C35-AF-xx	1870	15.39	121.51	Standard
KVN22-N-L020-UNV-DM-C40-AF-xx	1826	15.37	118.8	Standard
KVN22-N-L030-UNV-DM-C35-AF-xx	2760	23.39	118.00	Standard
KVN22-N-L030-UNV-DM-C40-AF-xx	2836	23.39	121.28	Standard
KVN22-N-L040-UNV-DM-C35-AF-xx	3674	32.41	113.36	Standard
KVN22-N-L040-UNV-DM-C40-AF-xx	3776	32.41	116.51	Standard
KVN22-N-L050-UNV-DM-C35-AF-xx	4697	39.64	118.49	Standard
KVN22-N-L050-UNV-DM-C40-AF-xx	4827	39.64	121.78	Standard
KVN22-N-L060-UNV-DM-C35-AF-xx	5533	48.35	114.44	Standard
KVN22-N-L060-UNV-DM-C40-AF-xx	5686	48.35	117.62	Standard

