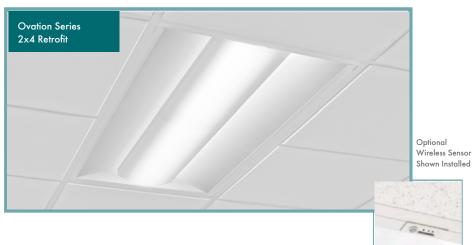


Ovation Series Retrofit Kit

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



Prefix: KVN24





















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 to confirm which versions are qualified.

project:

fixture type:

catalog #:

quantity:

ORDERING GUIDE



PREFIX/

SERIES

KVN - Ovation

Series Retrofit

Kit

24

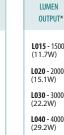
SIZE

24-2×4









L015 - 1500 (11.7W) **L020** - 2000 (15.1W) **L030** - 3000 **L040** - 4000 (29.2W) **L050 -** 5000 (39.6W) **L060** - 6000 (48.3W) Lxxx - Custom (Specify)

DRIVER VOLTAGE

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

DRIVER 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

COLOR TEMP.

C27 - 2700 K* C30 - 3000 K* C35 - 3500 K

C40 - 4000 K

C50 - 5000 K*

*Special

CRI

Blank-80CRI 9-90 CRI* S-Sunlike 95 CRI*

Only

LENS (DIFFUSER)

AF - Frosted Linear Prism Acrylic Lens (Standard)

MPCxv - Metal Pan Ceiling†† HDCxyz- Hard Ceiling †† SNS21x - Philips Wireless Sensor (EasySense)†††

OPTIONS AR - Air Return Slots

SVP-Silvair PIR Wireless Sensor*** SVM-Silvair Microwave Sensor**** LAR- Lutron Athena Wireless control

RFOnly***** LAP - Lutron Athena Wireless PIR Senosor^{††}

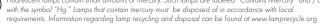
LVR- Lutron Vive Wireless control RF Only

LVP-Lutron Vive Wireless PIR Sensor † † 1 WLI-Wave Linx Integral PIR Sensor***

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









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

^{† †} See page 2/4 for more information on dimensional requirements.

^{† †} PIR sensors provide: Occupancy/Vacancy, Daylight Harvesting, Task Tuning & Advanced Grouping control options. (max 12 ft mounting height, highbay options available upon request)

 $[\]dagger\dagger\dagger\dagger \text{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)

^{† † † †} 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)

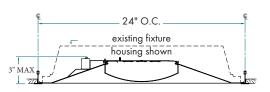
Prefix: KVN24



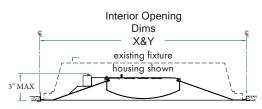
Ovation Series Retrofit Kit

KVN 2x4 Cross Section

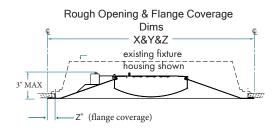
T-GRID Mount (Standard)

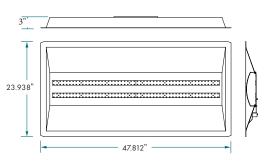


Metal Pan Mount (MPC)

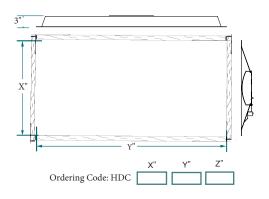


Hard Ceiling Mount (HDC)





3" X" Y" Ordering Code: MPC Y"



CONSTRUCTION

- Pecision dieastimed from 22 gag e cold rolled steel.
- Mechanically fastened / resistance welded.
- Consultdictory for all options or an modification needed.

FINISH

 High &flec ance Matte White polyester powder coat baked enamel for extreme durability and superior fixtue efficienc. Total Reflec ance = 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.

DRIVERS

- Electronic, constant current type. Universal voltage (120v-277v)
- O-10v dimmable. 10-100% (Standard)
 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

 Retofit kit is designed be mounted into an existing prismatic or parabolic toffer installed into a standard grid (NEMA "G") or nature grid (NEMA "NFG") ceiling I grids. Consultatory for all other special mounting conditions.

ELECTRICAL

- Retrofit kits ard L/CUClass Illisted and labeled.
- LM80 performance for 50,000+ hours
- Driver disconnect provided where retiputed ply with US & Canadian codes.

QUALITY CONTROL

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

WARRANTY

 5-year limited warranty Please refer to RENOW's website at www.renova.com/sales/w arranties for he latest warranty terms and conditions.

NOTES:

LED Drers have adjustable output capabilityA wide range of irput vatts/lumen output can be adjust up or down on all models b suit a particular application. Always consultactory for the latest information.

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

RENOVA products are constantly being improved; therefore the information shwn is subject to change without notice. Always consult pur lighting-presentative or RENOVA Lighting Systems. Inc. of the latest information.





Ovation Series Retrofit Kit

Prefix: KVN24



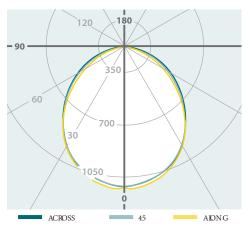
Catalog #: L-KVN24-WN-L30-UNV-30DM-W23-208-C40-AF

Photometric Test Report #: 10551935-803985

Delivered Lumens: 3075 Efficacy (Lumens/Watt): 129.7 Power: 23.68w @ 120 VAC Power Factor: 0.996 Current THD: 5.23% CRI: 82.6 CCT: 3921 K

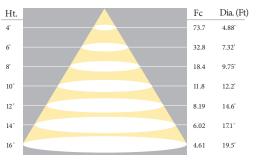
LED Life: 50.000+ hrs

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 ě RCR

Luminance Summary CD./SQ.M.

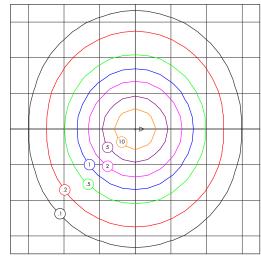
Angle	Along	45.0	Across
45	1645	1689	1705
55	1420	1526	1583
65	1167	1383	1524
75	910	1320	1495
85	644	1092	10 57

Zonal Lumen Summary

Zone	Lumens	% Luminaire	
0-30	904	29.39	
0-40	1459	47.45	
0-60	2469	80.32	
0-90	3075	100.00	
40-90	1616	52.55	
60-90	605	19.68	
90-180	0	0	
0-180	3075	100.00	

Horizontal Footcandles

Mounting Height = 8"-0' A.F.F. Maximum Calculated Value = 18.43 Fc



Grid Lines in Units of Mounting Height







Ovation Series Retrofit Kit

Prefix: KVN24



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
KVN24-N-[L015 to L070]-UNV-DM- C35-AF-SNS[2,3]00-[BLANK, EM, AR]	1500-7004	Varies by Output	144.53	Standard
KVN24-N-[L015 to L070]-UNV-DM- C35-AF-SNS[2,3]00-[BLANK, EM, AR]	1500-7004	Varies by Output	142.59	Standard
KVN24-N-L030-UNV-DM-C35-AF-xx	2886	22.19	130.10	Standard
KVN24-N-L030-UNV-DM-C40-AF-xx	2966	22.19	133.67	Standard
KVN24-N-L040-UNV-DM-C35-AF-xx	3799	29.24	129.92	Standard
KVN24-N-L040-UNV-DM-C40-AF-xx	3771	29.20	129.14	Standard
KVN24-N-L050-UNV-DM-C35-AF-xx	5586	41.09	135.95	Standard
KVN24-N-L050-UNV-DM-C40-AF-xx	5741	41.09	139.72	Standard
KVN24-N-L060-UNV-DM-C35-AF-xx	5808	48.49	119.78	Standard
KVN24-N-L060-UNV-DM-C40-AF-xx	5969	48.49	123.10	Standard
KVN24-N-L070-UNV-DM-C35-AF-xx	6492	55.86	116.22	Standard
KVN24-N-L070-UNV-DM-C40-AF-xx	6672	55.86	119.45	Standard
KVN24-N-L080-UNV-DM-C35-AF-xx	7391	65.38	113.05	Standard
KVN24-N-L080-UNV-DM-C40-AF-xx	7596	65.38	116.19	Standard
KVN24-N-L090-UNV-DM-C35-AF-xx	8729	68.55	127.34	Standard
KVN24-N-L090-UNV-DM-C40-AF-xx	8971	68.55	130.87	Standard

