

Prefix: KVN22

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:

- Commercial/Corporate Office 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. 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

KVN	22	-	Ν	-		-		-		-		-		-		-	
PREFIX/ SERIES	SIZE		OPTICS (DISTRIBUTION)		LUMEN OUTPUT*		DRIVER VOLTAGE]	DRIVER TYPE		COLOR TEMP.		CRI		LENS (DIFFUSER)		RETROFIT OPTIONS
KVN - Ovation Series Retrofit Kit	22- 2x2		N - Normal		L015 - 1500 (11.7W) L020 - 2000 (15.1W) L030 - 3000 (22.2W) L040 - 4000 (29.2W) L050 - 5000 (39.6W) L050 - 5000 (39.6W) L060 - 6000 (48.3W) L060 - 6000 (48.3W)		UNV - Universal Voltage (120v - 277v) (50/60 Hz)		 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%) *Special Order Only 		C27 - 2700 K* C30 - 3000 K* C35 - 3500 K C40 - 4000 K C50 - 5000 K* *Special Order Only		Blank-30 CRI 9-90 CRI* S-Sunlike 95 CRI* *Special Order Only		AF - Frosted Linear Prism Acrylic Lens (Standard)		AR - Air Return Slots MPCxy - Metal Pan Ceiling ⁺⁺ HDCxyz - Hard Ceiling ⁺⁺ SNS21x - Philips Wireless Sensor (EasySense) ⁺⁺⁺ SVP-Sikvair Microwave Sensor ⁺⁺⁺⁺ LAR - Lutron Athena Wireless control RF-Only ⁺⁺⁺⁺⁺ LAP - Lutron Athena Wireless PIR Sensor ⁺⁺⁺⁺ LVR - Lutron Vive Wireless control RF Only ⁺⁺⁺⁺⁺ LVP - Lutron Vive Wireless PIR Sensor ⁺⁺⁺⁺ WL-Wave Linx Integral PIR Sensor ⁺⁺⁺⁺ WL-Wave Linx Integral PIR Sensor ⁺⁺⁺⁺ Axx - Auxiliary output 12 or 24V EM - Emergency Battery Pack ⁺⁺

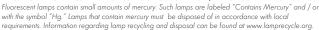
 \dagger Standard "EM" option to be NiCd Battery @ 5 Watts constant power @ 90 min. duration (standard). Consult factory for all available options.

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

i + 1 + PR sensors provide: Occupancy/Vacancy, Daylight Harvesting, Task Tuning & Advanced Grouping control options. (max 12 ft mounting height, highbay options available upon request)

t + + + 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)

PRIOR TO RETROFITTING THE EXISTING FLUORESCENT FIXTURE, PLEASE NOTE THE FOLLOWING: (Hg)





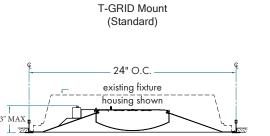


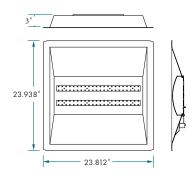
Category: LED

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Ovation Series Retrofit Kit

KVN 2x2 Cross Section





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

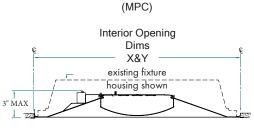
 High Reflectance Matte White polyester powder coat baked enamel for extreme durability and superior fixture efficiency. Total Reflectance = 97%.

LED's/OPTICS

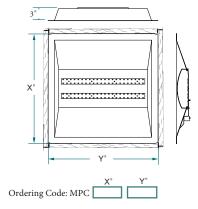
- High performance LED boards manufactured specifically for interior lighting. LED boards feature the most current LEDs for maximum performance, efficiency and longevity.
- Standard color temperatures offered are 3500K and 4000K. Consult factory for all other color temperature options. 80 CRI (Minimum) 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



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.

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- LENS (DIFFUSER)
- Extruded from 100% clear, virgin acrylic.

• Extruded linear ribs provide clean, aesthetic architectural look.

MOUNTING

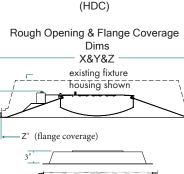
• Retrofit kit is designed to be mounted into an existing prismatic or parabolic troffer installed into a standard grid (NEMA "G") or narrow grid (NEMA "NFG") ceiling T-grids. Consult factory for all other special mounting conditions.

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

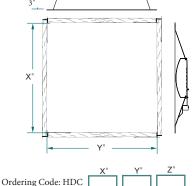


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Hard Ceiling Mount



ELECTRICAL

3" MAX

- 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).

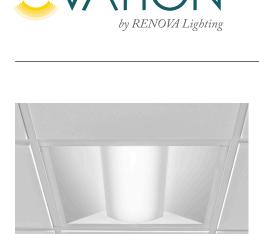
WARRANTY

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

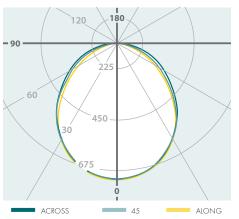
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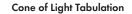


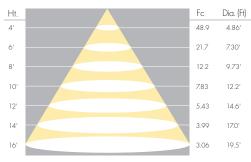
Catalog #: KVN22-N-L020-UNV-DM-C40-AF Photometric Test Report #: 10551935-803984 Delivered Lumens: 2029 Efficacy (Lumens/Watt): 121.5 Power: 16.73w @ 120 VAC Power Factor: 0.991 Current THD: 5.13% CRI: 82.7 CCT: 3924 K LED Life: 50,000+ hrs



Candela Distribution Polar Plot

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





	Coefficients of Utilizations (%) Effective Floor Cavity Reflectance 20 Per (pfc=0.20)									
Ъсс			80			50				
хd		70	50	30	70	50	30	50	30	
	0	119	119	119	116	116	116	111	111	
	1	110	105	101	107	103	100	99	96	
	2	101	94	87	99	92	86	88	83	
	3	93	83	76	90	81	75	79	73	
	4	86	75	67	84	73	66	71	64	
RCR	5	79	67	59	77	66	58	64	57	
	6	73	60	52	71	59	51	58	51	
	7	67	54	46	66	53	46	52	45	
	8	63	49	41	61	49	41	47	40	
	9	58	45	37	57	44	37	43	36	
	10	54	41	33	53	40	33	39	33	

Luminance Summary CD./SQ.M.

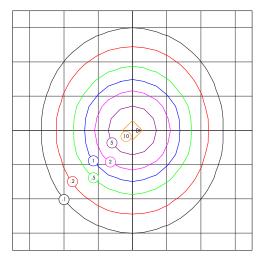
Angle	Along	45.0	Across
45	2272	2413	2469
55	1941	2171	2312
65	1584	1954	2237
75	1242	1834	2187
85	828	1480	1567

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



Maximum Calculated Value = 12.23 Fc



Grid Lines in Units of Mounting Height

📕 10 fc 📕 5 fc 📕 2 fc 📕 1 fc 📕 .5 fc 📕 .2 fc 📕 .1 fc



Category: LED

Ovation Series Retrofit Kit





by RENOVA Lighting

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-8NS[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

