

PATIENT ROOM LUMINAIRE RECESSED, MULTI-FUNCTION LINEAR PAIR

DATE:	LOCATION:
TYPE:	PROJECT:
	1
CATALOG #:	

FEATURES

- Multi-function luminaire with options for reading, ambient, exam and high exam for the patient environment.
- Sold as Tandem Master/Satellite pairs 4" aperture, 48" in length, and 4" depth
- · Narrow, sleek, 4" aperture creates a clean appealing ceiling
- Linear luminaires mount parallel to and offset from patient bed for low glare, symmetric and asymmetric distribution
- Optional integral low voltage controller allows patient control from bedside or through nurse call system
- High efficiency acrylic lens features linear prisms for high performance without pixelation
- Designed for various mounting options, dry wall and dry wall with plaster trim for trimless finish or grid ceiling types (see detail drawings for finish dimensions)

















SPECIFICATIONS

CONSTRUCTION

- Housing 20 gauge die form and welded steel
- End caps –20 gauge die formed steel
- Housing and internal reflector have antimicrobial paint finish that inhibits the growth of microbes
- Seismic clips come standard for grid ceiling options to secure luminaire to T bar

OPTICAL PERFORMANCE

- Even, asymmetric light distribution from offset recessed tandem paired luminaires
- Nominal .080 acrylic lens incorporating design prisms for precision focus onto patient bed
- Lens incorporates a V groove construction for positive engagement on the housing and a secure snap-in design for tool less access.
- Led light source available in 3000K, 3500K, 4000K, 5000K CCT with 80 CRI and 90 CRI options
- Optimal led life > L80/84000 for Ambient section, L80/60,000 Examination section, L80/61,000 for Reading section

INSTALLATION

 KLOVEN is available Grid (Nema G), Narrow Grid (NG), Screw Slot (SS), Dry Wall (DW) and Dry Wall with plaster trim for trimless finish (PT)

ELECTRICAL

- 2 circuits are standard when Ambient and Exam functions are ordered
- 3 circuits are standard when Ambient, Exam and Reading functions are ordered
- Available in universal 120-277V 50/60 Hz and 347V (specification of dedicated voltage may be required for certain options)
- Drivers are suitable of 0-10V dimming down to 1% and dim to off (Dimming performance will vary when low voltage controller options are selected)
- The ambient and reading light functions can be controlled with integral low voltage controller (LVC) options. The LVC allows control with patient pillow switch (by others) or wired through the nurse call system (by others). See LVC ordering guide on last page
- The Exam function is typically controlled through a wall switch (by others)



- UL1598 and CSA listed Damp Location (-20C to 25C)
- UL924
- CCEA approved (City of Chicago Environmental Act)
- Electromagnetic/Radio/Communication Interference
- FCC Part 15b (FCC communications interference)
- IEC/EN 60601-1-2

WARRANTY

• 5 year warranty

KEY DATA (Ambient+Exam*)							
Lumen Range	15,812-17,729						
Wattage Range	113.1–126.4						
Efficacy Range (LPW)	139.8–140.3						
Rated Life (Hours)	Ambient: L80/84,000 Exam: L80/60,000 Reading: L80/61,000						

*Based on 4000K, 80 CRI



currentlighting.com/lifeshield



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ORDERING GUIDE

Example: KLO-NG-D-30K8-D200R-D01-UNV-GLR-EF-LVCDSM3

Patient Room Tandem Fixture NG 9/16" Narrow Face Grid Ceiling SS 9/16" Screw Slot Grid Ceiling DW Drywall Ceiling PT Drywall Plaster Trim Drywall Plaster Trim Solon S	0	_		_		_					_		
Patient Room Tandem Fixture NG 9/16" Narrow Face Grid Ceiling SS 9/16" Screw Slot Grid Ceiling DW Drywall Ceiling PT Drywall Plaster Trim Drywall Plaster Trim Solon S	ries	Ceilin	д Туре	Di	stribution		Color Te	emperature 1, 5	Output			Drive	r
Tandem Fixture No		G	15/16" Grid	D	Direct		30K8	3000K 80CRI	D200	2,000 lm Ambient,		D00	0-10V Dim to Off
Fixture SS 9/16" Screw Slot Grid Ceiling DW Drywall Ceiling PT Drywall Plaster Trim 40K8 4000K 80CRI 50K8 5000K 80CRI 30K9 3000K 90CRI 35K9 3500K 90CRI 40K9 4000K 90CRI 50K9 5000K 90CRI 50K9 50K9 50K9 50K9 50K9 50K9 50K9 50K9		NG					35K8	3500K 80CRI				D01	0-10V 1% Dim
SS 9/16" Screw Slot Grid Ceiling 50K8 5000K 80CRI 30K9 3000K 90CRI 90 F side 50K9 5000K 90CRI 40K9 4000K 90CRI 50K9 5000K 90CRI 50K9 5000K 90CRI 50K9 5000K 90CRI 50K9 5000K 90CRI 50K9	Fixture		Grid Ceiling			4	40K8	4000K 80CRI	D200				
DW Drywall Ceiling 30K9 3000K 90CRI per side 35K9 3500K 90CRI 40K9 4000K 90CRI 50K9 5000K 90CRI 50K9 5000K 90CRI 50K9 5000K 90CRI 50K9 5000K 90CRI 50K9 5		SS	9/16" Screw Slot Grid Ceiling				50K8	5000K 80CRI	D300				
40K9 4000K 90CRI 6,000 Im Exam, 50K9 5000K 90CRI 1,000 Im Reading per side			Drywall Ceiling				30K9	3000K 90CRI					
50K9 5000K 90CRI 1,000 Im Reading per side		PT	Drywall Plaster Trim				35K9	3500K 90CRI	D200R	2,000 lm Ambient,			
50K9 5000K 90CRI per side							40K9	4000K 90CRI					
2750T							50K9	5000K 90CRI					
							2750T	SpectraSync 2700K-5000K ²	D300R	3,000 lm Ambient,			
										1,000 Im Reading per side			

Voltag	ge	- Opti	ons	_	Control Option	ons	-	Low Voltage C	Control Options ^{4, 6}
UNV 120 277 347	Universal Voltage (120-277V) 120V 277V 347V	GLR EF EFS DTS CCE	10W Battery Pack ⁶ 10W Battery Pack Self Test ⁶ Automatic Load Control Relay ⁶		NX Network NXE NX Network NXWSM Lutron LVR	nx Wired Dual RJ45 SmartPORTS , without Sensor 6 ited – Wireless Nx Networked Wireless Enabled Integral NxSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming 6 Lutron Vive Integral Fixture Control (RF only)		LVC1 LVC12 LVC21 LVCDSM1 LVCDSM2 LVCDSM3 LVCDSM4 LVCDSM5	Dedicated On/Off Control for Reading Mode (Exam not connected to LVC) Dedicated On/Off Control for Ambient Mode (Exam not connected to LVC) Dedicated On/Off Control for Reading Mode and Ambient Mode or Sequential Cycling (Exam not connected to LVC) Smooth Dimming for Ambient Mode, On/Off for Reading Mode Smooth Dimming for Reading Mode, Ambient Mode is On/Off Smooth Dimming for Reading Mode and Ambient Mode Smooth Dimming for Reading Mode and Ambient Mode Smooth Dimming for Reading Mode. Ambient Mode is not connected to LVC. Smooth Dimming for Ambient Mode, Reading Mode, Reading Mode is not connected to LVC.

Notes:

- 1 All functions provided with same CCT / CRI, for other configurations consult factory.
- 2 Ambient only is controlled, reading and exam will default to static 3500K.
- 3 Not available with NX.
- 4 See LVC ordering guide on last page.
- 5 Ambient and Exam functions only are provided when specifying SpectraSync. If Reading Function is required consult factory.
- 6 Not available for 347V.





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CONTROLS

SpectraSync™ Color Tuning Technology:

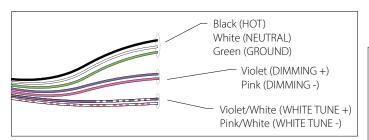
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNC COLOR TUNING TECHNOLOGY							
Mode	Kelvin Range	Description					
Tunable White	2700K-5000K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space. For ambient mode only.					

SpectraSync Tunable White

Available in: 2750T (2700K–5000K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

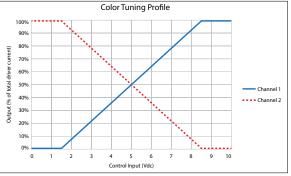


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers







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PERFORMANCE DATA TABLE

The table below shows the delivered lumens for the various lumen outputs. Values shown are total for the pair. Use this chart in connection with the output multiplier capability to deliver any output required.

			Ambient Mode Reading Mode						Ambient	& Readir	ng Mode	Exam	nination N	l ode	Examination & Ambient Mode			
CRI	Model	сст	Lumens	Input Watts	LPW	Lumens	Input Watts	LPW	Lumens	Input Watts	LPW	Lumens	Input Watts	LPW	Lumens	Input Watts	LPW	
		3000K	4032	29.2	138.1	N/A	N/A	N/A	N/A	N/A	N/A	10997	83.5	131.7	15029	112.7	133.4	
00 CDI	KI O D200	3500K	4198	29.3	143.3	N/A	N/A	N/A	N/A	N/A	N/A	11299	83.7	135.0	15497	113.0	137.1	
80 CRI	KLO-D200	4000K	4131	29.4	140.5	N/A	N/A	N/A	N/A	N/A	N/A	11681	83.7	139.6	15812	113.1	139.8	
	5000K	4257	29.2	145.8	N/A	N/A	N/A	N/A	N/A	N/A	11601	83.4	139.1	15858	112.6	140.8		
		3000K	5707	42.8	133.3	N/A	N/A	N/A	N/A	N/A	N/A	10997	83.5	131.7	16704	126.3	132.3	
80 CRI	KI O-D300	3500K	5955	42.7	139.5	N/A	N/A	N/A	N/A	N/A	N/A	11299	83.7	135.0	17254	126.4	136.5	
80 CRI	KLO-D300	4000K	6048	42.7	141.6	N/A	N/A	N/A	N/A	N/A	N/A	11681	83.7	139.6	17729	126.4	140.3	
		5000K	6056	42.7	141.8	N/A	N/A	N/A	N/A	N/A	N/A	11601	83.4	139.1	17657	126.1	140.0	
		3000K	4032	29.2	138.1	1990	19.4	102.6	6022	48.6	123.9	10997	83.5	131.7	15029	112.7	133.4	
00 CDI	IVI O DOGOD	3500K	4198	29.3	143.3	2079	19.4	107.2	6277	48.7	128.9	11299	83.7	135.0	15497	113.0	137.1	
80 CRI	KLO-D200R	4000K	4131	29.4	140.5	1936	19.4	99.8	6067	48.8	124.3	11681	83.7	139.6	15812	113.1	139.8	
		5000K	4257	29.2	145.8	2063	19.4	106.3	6320	48.6	130.0	11601	83.4	139.1	15858	112.6	140.8	
		3000K	5707	42.8	133.3	1990	19.4	102.6	7697	62.2	123.7	10997	83.5	131.7	16704	126.3	132.3	
00.001	1/1 0 00000	3500K	5955	42.7	139.5	2079	19.4	107.2	8034	62.1	129.4	11299	83.7	135.0	17254	126.4	136.5	
80 CRI KLO-D3	KLO-D300R	4000K	6048	42.7	141.6	1936	19.4	99.8	7984	62.1	128.6	11681	83.7	139.6	17729	126.4	140.3	
		5000K	6056	42.7	141.8	2063	19.4	106.3	8119	62.1	130.7	11601	83.4	139.1	17657	126.1	140.0	
		3000K	3443	29.2	117.9	N/A	N/A	N/A	N/A	N/A	N/A	9347	83.5	111.9	12791	112.7	113.5	
00.00	1/1.0 0000	3500K	3500	29.3	119.5	N/A	N/A	N/A	N/A	N/A	N/A	9612	83.1	115.7	13112	112.4	116.7	
90 CRI	KLO-D200	4000K	3656	29.4	124.4	N/A	N/A	N/A	N/A	N/A	N/A	10338	83.7	123.5	13994	113.1	123.7	
		5000K	3750	29.2	128.4	N/A	N/A	N/A	N/A	N/A	N/A	10220	83.4	122.5	13971	112.6	124.1	
		3000K	4874	42.8	113.9	N/A	N/A	N/A	N/A	N/A	N/A	9347	83.5	111.9	12709	112.7	112.8	
		3500K	4965	42.7	116.3	N/A	N/A	N/A	N/A	N/A	N/A	9612	83.1	115.7	13112	112.4	116.7	
90 CRI	KLO-D300	4000K	5352	42.7	125.4	N/A	N/A	N/A	N/A	N/A	N/A	10338	83.7	118.6	13373	113.1	118.2	
		5000K	5335	42.7	124.9	N/A	N/A	N/A	N/A	N/A	N/A	10220	83.4	118.2	13410	112.6	119.1	
		3000K	3443	29.2	117.9	1672	19.4	86.2	5115	48.6	105.2	9347	83.5	111.9	12791	112.7	113.5	
		3500K	3500	29.3	119.5	1621	19.4	83.6	5121	48.7	105.2	9612	83.1	115.7	13112	112.4	116.7	
90 CRI KLO	KLO-D200R	4000K	3656	29.4	124.4	1607	19.4	82.8	5263	48.8	107.8	10338	83.7	118.6	13994	113.1	123.7	
		5000K	3750	29.2	128.4	1692	19.4	87.2	5442	48.6	112.0	10220	83.4	118.2	13971	112.6	124.1	
		3000K	4874	42.8	113.9	1672	19.4	86.2	6545	62.2	105.2	9347	83.5	111.9	14221	126.3	112.6	
		3500K	4965	42.7	116.3	1621	19.4	83.6	6586	62.1	106.1	9612	83.1	115.7	14577	125.8	115.9	
90 CRI	KLO-D300R	4000K	5352	42.7	125.4	1607	19.4	82.8	6959	62.1	112.1	10338	83.7	118.6	15690	126.4	124.1	
			5335	42.7	124.9	1692	19.4	87.2	7027	62.1	113.2	10220	83.4	118.2	15556	126.1	123.4	



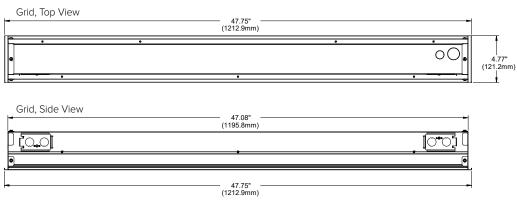


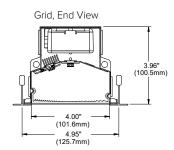
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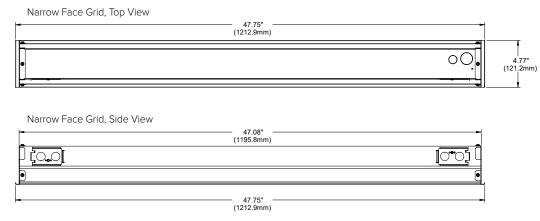
DIMENSIONS

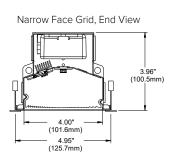




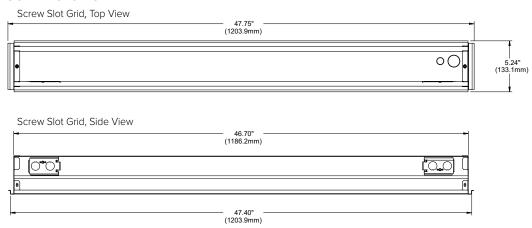


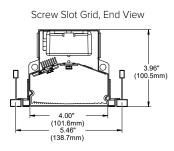
NARROW FACE GRID





SCREW SLOT GRID









KI OVEN

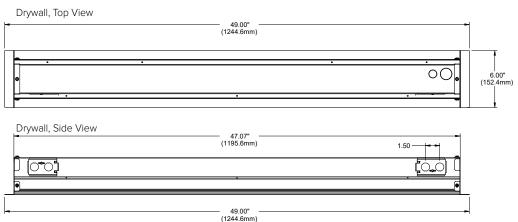
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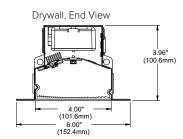
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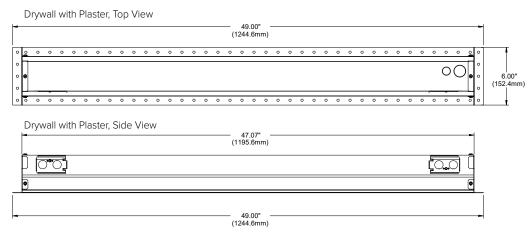
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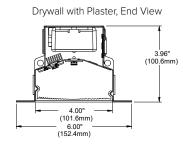
DRYWALL





DRYWALL WITH PLASTER







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KLOVEN LVC ORDERING GUIDE

LVC ORDERING CODE	AMBIENT FUNCTION	READING FUNCTION	EXAM FUNCTION
			Typically controlled by switch not connected to LVC
LVC1	Not Connected	I	
LVC12	I	Not Connected	
LVC21	I OR S		
LVCDSM1	SM	I	
LVCDSM2	I	SM	
LVCDSM3	SM	SM	
LVCDSM4	Not Connected	SM	
LVCDSM5	SM	Not Connected	

Notes:

LVC1 Low voltage controller for individual control of the reading function LVC12 Low voltage controller for individual control of the ambient function

LVC21 Low voltage controller for individual or sequential control of 2 independent functions
LVCDSM Low voltage controller for up to 3 functions with 1 or 2 functions having 0-10 dimming and the remaining function(s) being controlled independently

*LVC not available with 347V, NX or DTS options. Consult factory for compatibility with other controls systems

LVC SELECTION CHART

The Low voltage controller (LVC) option allows control of the luminaire function from a patient pillow switch, bed side rail or wall switch with normally-open dry contacts				
INDEPENDENT	I	Dedicated on/off control for a single lead		
SEQUENTIAL	S	On / Off control of 2 loads sequentially by cycling through them		
SMOOTH DIM	SM	Smooth increase in light level from a starting point from 25% by continuing to press the switch, when released, press again the light level decreases until the switch is released		

