

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe



APN ArcMed Patient Narrow Recessed

Patient Room Recessed Ceiling- Narrow
6" x 4'
Behavioral Health / Medical

Typical Applications

Healthcare • Patient Rooms • Exam Rooms • Behavioral Health • Medical

Interactive Menu

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- Product Warranty

Product Certification



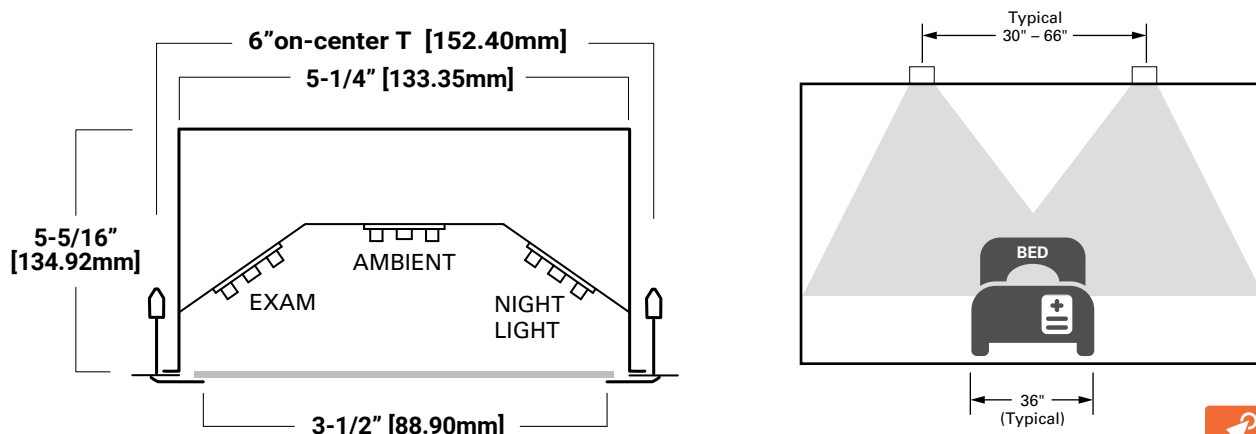
Product Feature



Top Product Features

- Fully luminous frosted bottom lens with illumination above - enables functional illumination -ambient,exam,reading, nightlight to suit the needs of the patient, medical professionals, and others in the space
- Anti-microbial matte white paint standard
- Fully luminous frosted bottom lens for easy wipe down and cleaning
- White tuning enables color temperature adjustment to enhance the patient experience
- Options to meet Buy American Act requirements
- 10 day rapid ship available

Dimensional and Mounting Details



[additional product diagrams](#)

Order Information

SAMPLE CATALOG LOGIC:

Left side of bed: **4APN6-24/L835-23/L840-UNV-CD/CD-RLR830-NLL30**
 Right side of bed: **4APN6-24/L835-23/L840-UNV-CD/CD-RLR830-NLR30**

SAMPLE CATALOG LOGIC:

Left side of bed: **4APN6-24/L835-23/L840-120-HCD/HCD-RLR830-EL7W**
 Right side of bed: **4APN6-24/L835-23/L840-120-HCD/HCD-RLR830-EL7W**

10 DAY RAPID SHIP SAMPLE LOGIC:

Left side of bed: **4APN6-24/L835-23/L840-UNV-HCD/HCD-RLR830-RS**
 Right side of bed: **4APN6-24/L835-23/L840-UNV-HCD/HCD-RLR830-LVC3/AD/E/RD-RS** (LVC3 gets installed in only one of the pairs).

" Shaded options denote 10 day rapid ship"

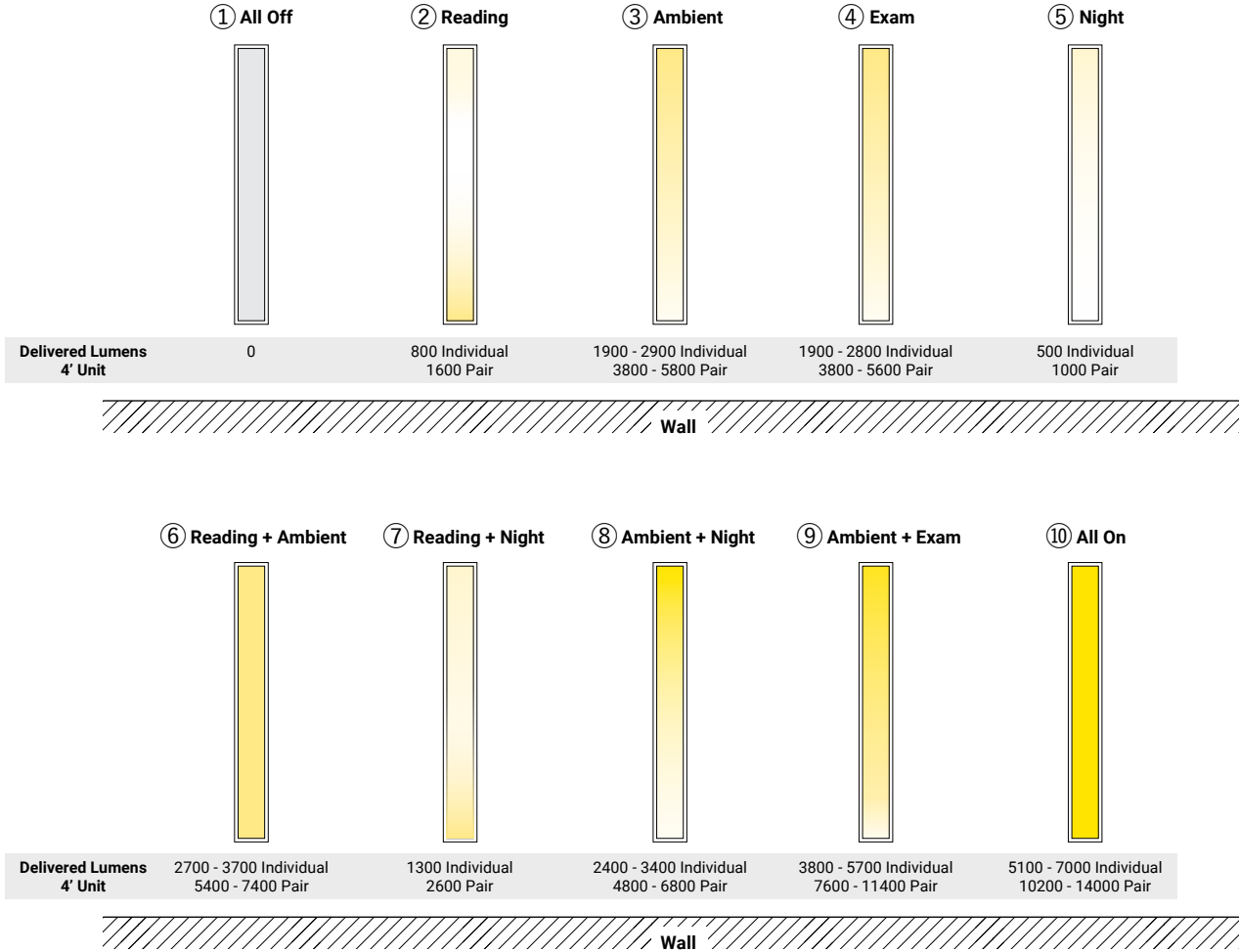
Domestic Preferences	Length	Fixture Family	Fixture Size	Ambient Lumens	Ambient CCT	Exam Lumens	Exam CCT
Domestic Preferences ⁽¹⁾	Length	Fixture Family	Fixture Size	Ambient Lumens	Ambient CCT	Exam Lumens	Exam CCT
[Blank]=Standard BAA=Buy American Act	4=4' Long	APN=ArcMed Patient Narrow Recessed Grid, 9/16"-1" T-Bar	6=6" on center T-Bar	4' 19=1900 24=2400 29=2900	L830=80CRI, 3000K L835=80CRI, 3500K L840=80CRI, 4000K L850=80CRI, 5000K L930=90CRI, 3000K L935=90CRI, 3500K L940=90CRI, 4000K L950=90CRI, 5000K L82765=White tuning 80 CRI, 2700K-6500K ^{(3),(4)} L83050=White tuning 80 CRI, 3000K-5000K ^{(3),(4)} L92765=White tuning 90 CRI, 2700K-6500K ^{(3),(4)} L93050=White tuning 90 CRI, 3000K-5000K ^{(3),(4)}	4' 19=1900 23=2300 28=2800	L830=80CRI, 3000K L835=80CRI, 3500K L840=80CRI, 4000K L850=80CRI, 5000K L930=90CRI, 3000K L935=90CRI, 3500K L940=90CRI, 4000K L950=90CRI, 5000K L82765=White tuning 80 CRI, 2700K-6500K ^{(3),(4)} L83050=White tuning 80 CRI, 3000K-5000K ^{(3),(4)} L92765=White tuning 90 CRI, 2700K-6500K ^{(3),(4)} L93050=White tuning 90 CRI, 3000K-5000K ^{(3),(4)}
Notes (1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		Notes For Hard Lid ceiling, use DFCL framing kit (see accessories). For a 1-1/2" T-grid ceiling application, ETO request can be submitted.				Notes (3) White tuning provides correlated color temperatures (CCT) between 3000K (warm) to 5000K (cool) or 2700K (warm) to 6500K (cool). Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. (4) Not available in all lumen outputs.	

Voltage	Ambient Driver Type	Exam Driver Type	Reading / Night Light
Voltage	Ambient Driver Type	Exam Driver Type	Reading / Night Light
120=120 Volt 277=277 Volt UNV=Universal Voltage 120/277	CD=10% Dimming HCD=1% Dimming 5LTD=DALI 10% 5LTHD=DALI 1% LH=Lutron 1% EcoSystem W2A=White Tuning, 2ch Analog 0-10V intensity and CCT control (Coming Soon) ^{(3),(4)}	CD=10% Dimming HCD=1% Dimming 5LTD=DALI 10% 5LTHD=DALI 1% LH=Lutron 1% EcoSystem W2A=White Tuning, 2ch Analog 0-10V intensity and CCT control (Coming Soon) ^{(3),(4)}	Reading Light (800 lumens) RLx827=2700K RLx830=3000K RLx835=3500K RLx840=4000K RLx850=5000K RLx930=3000K RLx935=3500K RLx940=4000K RLx950=5000K
			Night Light (500 lumens) NLxA=Night Light, Amber ⁽⁶⁾ NLx827=2700K NLx830=3000K NLx835=3500K NLx840=4000K NLx850=5000K NLx930=3000K NLx935=3500K NLx940=4000K
Notes If ordering Options, such as Relays or Emergencies, please reference the notes as they may require specific voltage of 120 or 277.	Notes (3) White tuning provides correlated color temperatures (CCT) between 3000K (warm) to 5000K (cool) or 2700K (warm) to 6500K (cool). Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 color, 1 intensity. (4) Not available in all lumen outputs.		Notes *Replace "X" with L or R, for orientation; SEE PAGE 3 for left and right reading lights and night lights, and sample catalog ordering logic* (6) Amber night light ~200 lumens.

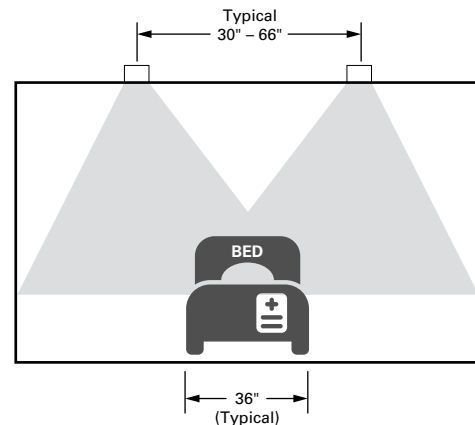
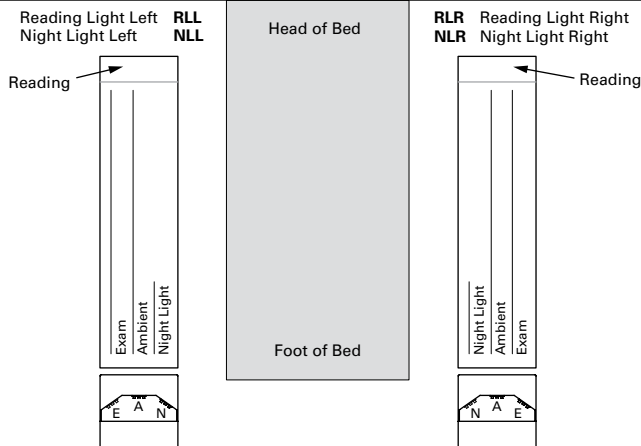
Options
Options
<p>LVC3/x/y/z=Low Voltage Relay, Non-Dimming. Controls up to 2 circuits. ^{(7),(9),(15)}</p> <p>LVC3 ordering function callout (x/y): A=Ambient, E=Exam, R=Reading, N=Nightlight. Unused circuit leave blank. i.e. LVC3/A/E=(Relay controlling Ambient & Exam), i.e. LVC3/A=(Relay controlling Ambient only)</p> <p>LVC3/x/y/z=Low Voltage Relay. Controls up to 3 circuits, and up to 2 circuits dimmable. ^{(8),(9),(15)}</p> <p>LVC3 ordering function callout (x/y/z): A=Ambient, E=Exam, R=Reading, N=Nightlight. Provide a "D" with the function callout requiring dimming; up to 2 circuits can be dimmable. Unused circuit leave blank.</p> <p>i.e. LVC3/AD/ED/R=(Relay controlling Ambient(Dimming)/ Exam(Dimming) & Reading(no-dimming) ⁽¹⁴⁾</p> <p>i.e. LVC3/AD/ED/RD=(Relay controlling Ambient(Dimming)/ Exam(no dimming) & Reading(Dimming) ⁽¹⁴⁾</p> <p>EL7W=7W Emergency Battery Pack ^{(9),(11)}</p> <p>EL10W=10W Emergency Battery Pack ^{(9),(12)}</p> <p>EL14W=14W Emergency Battery Pack ^{(9),(11)}</p> <p>CP125=.125" Polycarbonate Lens. CP125 requires screws to fasten door to housing ⁽¹³⁾</p> <p>CP250=.250" Polycarbonate Lens. CP250 requires screws to fasten door to housing ⁽¹³⁾</p> <p>TRS= Tamper-resistant screws, T20 TORX[®] optional when ordering either CP125 or CP250 lens options. ⁽¹⁴⁾</p> <p>RS= 10 day ship ⁽¹⁵⁾</p>
Notes 7) LVC3- low voltage relay up to 2 circuits, non-dimming. LVC3 ordering function callouts (x,y) are A=Ambient, E=Exam, R=Reading, N=Nightlight. For unused circuits, leave function blank. (8) LVC3- low voltage relay up to 3 circuits, with up to 2 circuits being dimmable. Use with the CD or HCD dimming drivers. LVC3 ordering function callouts (x,y,z) are A=Ambient, E=Exam, R=Reading, N=Nightlight. Provide "D" with function callout that requires dimming capability. i.e. LVC3/AD/ED/R =low volt relay -Ambient dimming/ Exam dimming/ Reading non-dimming. Unused circuits, leave function blank. (9) Must specify voltage, 120 or 277. LVC3, LVC3 are voltage specific and the EL7W, EL10W, EL14W require specific voltage due to thermal protectors. (11) Emergency battery pack is factory installed and incorporates a remote indicator/test switch. (12) 10W EM pack mounted on the back of the fixture, adding 1.25" to fixture depth. (13) CP125 or CP250 lens options use door screws, therefore will not be a fastener-free door design. (14) Tamper-resistant, T20 TORX [®] optional, when ordering either CP125 or CP250 options. (15) When ordering the LVC3 or LVC3 relay options, only one of the fixture pairs require the installed relay, see page 3 for sample ordering logic. (16) 10 day ship from receipt of clean PO to ship date. 25 unit maximum per PO. RS only available with shaded options. 10 DAY RAPID SHIP SAMPLE LOGIC: Left side of bed: 4APN6-24/L835-23/L840-UNV-HCD/HCD-RLR830-RS Right side of bed: 4APN6-24/L835-23/L840-UNV-HCD/HCD-RLR830-LVC3/AD/E/RD-RS (LVC3 relay gets installed in only one (1) of the fixture pairs, therefore LVC3 logic, does not need to be called out for both catalog numbers).

Accessories
Accessories (order separately)
<p>DFCL-0648W-U=6"x48" gasketed drywall framing kit. Ships with gasket to be applied in the field. Cutout dimensions 6.25"x48.25"</p> <p>DFCL-0648AMW-U=6"x48" gasketed drywall framing kit. Ships with gasket to be applied in the field. Cutout dimensions 6.25"x48.25"</p> <p>DFVR/APN-0648W-U=6"x48" vandal resistant drywall kit, anti-microbial matte white finish. Cutout dimensions 6.25"x48.25"</p> <p>DFVR/APN-0648AMW-U=6"x48" vandal resistant drywall kit, anti-microbial matte white finish. Cutout dimensions 6.25"x48.25"</p>
Notes Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Compartment Configurations



Reading Light and Night Light Catalog Logic



Sample logic to illuminate one patient bed with reading & nightlight

- 1 qty: 4APN6-24/L840-28/L840-UNV-CD/CD-RLL827-NLL827
- 1 qty: 4APN6-24/L840-28/L840-UNV-CD/CD-RLR827-NLR827

Sample logic to illuminate one patient bed without reading & nightlight

- 2 qty: 4APN6-24/L840-28/L840-UNV-CD/CD

Sample logic to illuminate one patient bed with low voltage relays, LVCP or LV3
Only one of the fixture pairs require the relay installed

- 1 qty: 4APN6-24/L840-28/L840-120-CD/CD
- 1 qty: 4APN6-24/L840-28/L840-120-CD/CD-LVCP/A/E

Product Specifications

Application

- Designed for use in healthcare facilities where exam and ambient illumination is required:
 - Patient Rooms, Exam Rooms, Behavioral Health

Mounting

- Designed for standard grid sizes from 9/16" to 1" T-grid
- Drywall Kits available for use in sheetrock ceilings

Housing

- 20-ga steel construction
- Standard housing finish antimicrobial matte white

Door

- 20-ga steel door using multiple torsion components to secure door to housing. Tamper screws, optional
- Standard door finish antimicrobial matte white

Lens

- 0.080" diffuse opal acrylic lens, standard
- 0.125" or 0.250" clear, polycarbonate lens, optional

LEDs

- Available in 3000K, 3500K, 4000K and 5000K; 80 and 90 CRI
- Ambient and Exam TM21 life at 60,000 hours up to L82 and calculated L70 exceeds 108,000 hours
- Efficacies up to 99 LPW

Electrical

- Electronic driver 120-277V standard 0-10V dimming, 10%, and 1 % dimming available
- LVCP low volt controller, non-dimming, 2 loads
- LVC3 low volt controller, dimming, 3 loads (2 dim)

Compliances

- cULus Damp Location

Warranty

- Five year limited warranty on LEDs and Electrical, consult website for details. www.cooperlighting.com/legal

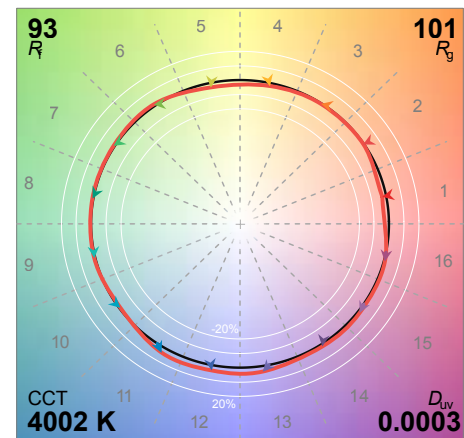
Energy and Performance Data

Size	Function	Output Level	Lumens	Wattage	Efficacy
4'	Ambient	19	1908	17.8W	107
		24	2386	22.3W	107
		29	2863	26.7W	107
	Exam	19	1879	17.9W	105
		23	2348	22.4W	105
		28	2818	26.9W	105

CRI/CCT Multipliers

L830	0.943
L835	1
L840	1
L850	1.015
L930	0.815
L935	0.861
L940	0.868
L950	0.868

Photometric Data



[View IES files](#)

Luminance Data

	Ambient		
	4APN6-19/L840-X	4APN6-24/L840-X	4APN6-29/L840-X
45	3308	4134	4961
55	3117	3894	4674
65	2867	3583	4300
75	2413	3015	3619
85	1555	1943	2332

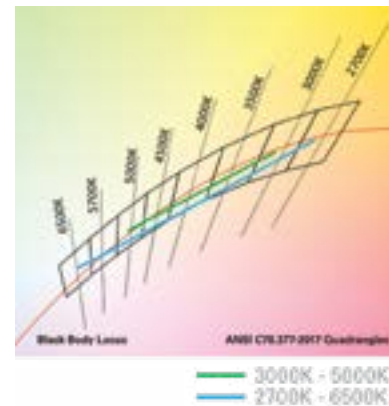
	Exam		
	4APN6-x-18/L840	4APN6-x-23/L840	4APN6-x-28/L840
45	3349	4189	5026
55	3148	3936	4723
65	2866	3584	4301
75	2431	3040	3648
85	1562	1953	2344

VividTune™

color tuning solutions

APN6 with VividTune Tunable White

VividTune tunable white luminaires from Cooper Lighting Solutions deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.



Performance Data*

Tunable White - Lumen Adjustment Factors 4 ft. With Reading Light				
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.762	0.618
3000K	0.768	0.703	0.777	0.632
3500K	0.797	0.727	0.799	0.656
4000K	0.819	0.746	0.818	0.676
4500K	0.837	0.759	0.83	0.689
5000K	0.84	0.76	0.843	0.703
6500K	-	-	0.854	0.725

4 ft. Fixture With Reading Light Example of Approximate Lumen Calculations			
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
CCT Setting	4APN6-29/L840-X-UNV-RL	4APN6-30/L83050-X-UNV-W2A/W2A-RL	4APN6-30/L93050-X-UNV-W2A/W2A-RL
3000K	-	2198	2012
3500K	-	2283	2082
4000K	2863	2346	2135
4500K	-	2396	2172
5000K	-	2406	2176

Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V dimming input is used to adjust CCT. For suggested control configurations, go to www.cooperlighting.com for tunable white application guides.

