

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe



APN ArcMED Patient Narrow Recessed Ceiling Used in Pairs

Patient Room Recessed Ceiling - Narrow
6" x 4' / 3-1/2" Aperture
Ambient / Exam / Reading / Nightlight
Behavioral Health / Medical

Typical Applications

Healthcare • Patient Rooms • Exam Rooms • Behavioral Health

Interactive Menu

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- VividTune™ Color Tuning Solutions [page 6](#)
- BioUp - Melanopic Lighting [page 7](#)
- Product Warranty

Product Certification



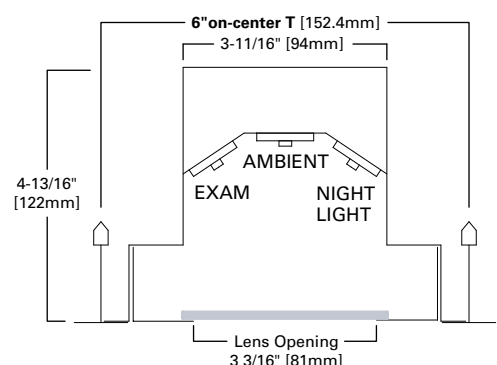
Product Feature



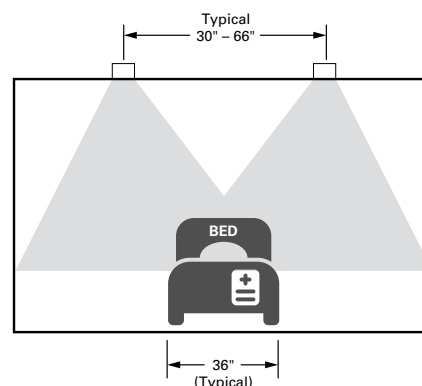
Top Product Features

- 3 1/2" aperture for pleasing illumination
- Clear polycarbonate bottom lens for IK10 impact resistance rating. **Ligature resistant**
- IP65 dust and water for ingress protection for sterile environments
- Fully luminous frosted bottom lens enables functional illumination--ambient, exam, reading, nightlight
- Opal asymmetric lens, to focus illumination towards the bed
- Easy access to LEDs and electrical from room side, using a fastener-free door frame and lens. Fully luminous bottom lens for easy wipe down and cleaning. Anti-microbial matte white finish standard
- BioUp melanopic lighting options enable circadian design for patient or staff care
- VividTune CCT tuning options from 3000K-5000K or 2700K-6500K
- Options to meet Build America, Buy America and Buy American domestic preference requirements
- 10-Day Quick Spec available

Dimensional and Mounting Details



Add 2" [50.8mm] to overall height for emergency back box



[additional product diagrams](#)

Order Information

SAMPLE CATALOG LOGIC:
 Left side of bed: **4APN6-32/835-42/840-NP3-UNV-CD/CD-RDL830-NTL830**
 Right side of bed: **4APN6-32/835-4L/840-NP3-UNV-CD/CD-RLDR830-NTR830**

SAMPLE CATALOG LOGIC:
 Left side of bed: **4APN6-24/835-37/840-SD-ASY-CP125-120-HCD/HCD-RDL830**
 Right side of bed: **4APN6-24/835-37/840-SD-ASY-CP125-120-HCD/HCD-RDR830-EL7W**

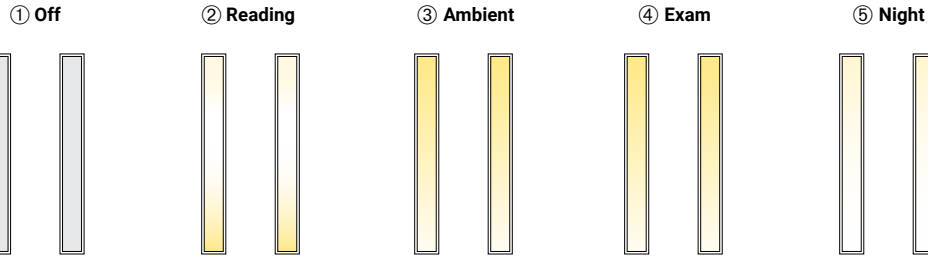
10-DAY QUICK SPEC SAMPLE LOGIC:
 Left side of bed: **QS-4APN6-39/L835-42/840-42-840-NP1-UNV-HCD/HCD-ASY-RDL830**
 Right side of bed: **QS-4APN6-39/L835-42/840-42-840-NP1-UNV-HCD/HCD-ASY-RDR830-LVC3/AD/E/RD** (LVCP or LVC3 installed in 1 of the pair). **Gray bar denotes 10-Day Quick Spec**

Domestic Preferences ⁽¹⁾	Quick Spec ⁽²⁾	Length	Fixture Family	Ambient Lumens	Ambient CCT	Exam Lumens ⁽⁴⁾	Exam CCT
[Blank] =Standard BAA =Buy American Act BABA =Build America Buy America Act	QS =Quick Spec ⁽²⁾	4 =4'	APN6 =ArcMed Patient Narrow Recessed Grid, 9/16" - 1" T-Bar, 6" on-center T	4' 20 =2000 24 =2400 28 =2800 32 =3200 ⁽⁵⁾ 35 =3500 ⁽⁵⁾ 39 =3900 ⁽⁵⁾	830 =80CRI, 3000K 835 =80CRI, 3500K 840 =80CRI, 4000K 850 =80CRI, 5000K 930 =90CRI, 3000K 935 =90CRI, 3500K 940 =90CRI, 4000K 950 =90CRI, 5000K 82765 =White tuning 80 CRI, 2700K-6500K ^{(3),(4)} 83050 =White tuning 80 CRI, 3000K-5000K ^{(3),(4)} 92765 =White tuning 90 CRI, 2700K-6500K ^{(3),(4)} 93050 =White tuning 90 CRI, 3000K-5000K ^{(3),(4)} B35 =BioUp Static 3500 ⁽⁶⁾ B40 =BioUp Static 4000K ⁽⁶⁾ B50 =BioUp Static 5000K ⁽⁶⁾ B2750 =BioUp Tunable 2700K-5000K ⁽⁷⁾	4' 22 =2200 26 =2600 30 =3000 34 =3400 ⁽⁵⁾ 37 =3700 ⁽⁵⁾ 42 =4200 ⁽⁵⁾	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 these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	Notes (2) 10 day ship from receipt of clean PO to ship date. 25 unit maximum per PO. QS only available with shaded options.		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 cct, 1 intensity. (4) Not available in all lumen outputs. (5) Requires thermal protectors. Must specify voltage. See details, page 4. (6) BioUp Static to be used with HCD driver. (7) BioUp Tunable provides correlated color temperatures (CCT) between 2700K (warm) to 5000K (cool). Must be used with W2A (for two channel 0-10V Control) or W2D (for 2 channel DALI Control) driver. See BioUp page for more information. (8) BioUp static and dynamic options are not available with these options.			

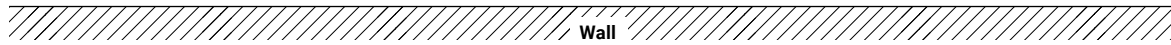
Inset Door	Primary Lens	Outer Security Lens ⁽¹²⁾	Voltage ⁽²⁷⁾	Ambient Driver Type	Exam Driver Type
[Blank] =No fasteners ⁽¹⁰⁾ SD =Screw-down ⁽¹⁰⁾	[Blank] =Opal acrylic, symmetric ASY =Opal, acrylic, asymmetric ^{(11),(28)} NP1 =Natural Pattern 1 ⁽¹¹⁾ NP2 =Natural Pattern 2 ⁽¹¹⁾ NP3 =Natural Pattern 3 ⁽¹¹⁾ PC3 =Perceive Paramid PW1 =Perceive Waves PR1 =Perceive Ripple	[Blank] =No security lens CP125 =Clear outer polycarbonate lens, 0.125" thick ⁽¹³⁾ CP250 =Clear outer polycarbonate lens, 0.250" thick ⁽¹³⁾	120 =120 Volt 277 =277 Volt UNV =Universal Voltage 120/277	CD =10% Dimming HCD =1% Dimming 5LTD =DALI 5% LH =Lutron 1% EcoSystem W2A =White Tuning, 2ch Analog 0-10V intensity and CCT control ⁽¹⁴⁾ W2D =White Tuning, DALI Type 8, 1% dimming ⁽¹⁵⁾	CD =10% Dimming HCD =1% Dimming 5LTD =DALI 5% LH =Lutron 1% EcoSystem
Notes (10) Necessary for IK10/ligature resistant rating, and IP65 compliance. Screws are flush, stainless steel philips head, painted matte w/white anti-microbial.	Notes (11) See page 3 for lens details. (28) Replace ___ with "L" for left or "R" for right	Notes (12) Available with SD door only. (13) IK10 rated. Ligature resistant. Not necessary for IP65. CP125 or CP250 necessary for IK10 compliance.	Notes If ordering Options, such as Relays or Emergencies, please reference the notes as they may require specific voltage of 120 or 277. (27) When ordering high lumen outputs with ambient or exam; universal voltage is not available; must select either 120V or 277V.	Notes (14) 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 cct, 1 intensity. (15) W2D for use with BioUp options only. White tuning CCT between 2700K and 5000K. Must be used with DALI controls; one address to control two channels - intensity and CCT. For Emergency options ONLY EL10W can be used.	

Reading Light ^{(17),(18)}	Night Light ^{(17),(18)}	Options	Accessories (order separately) ⁽²⁶⁾
Reading Light (800 lumens) RD_827 =2700K RD_830 =3000K RD_835 =3500K RD_840 =4000K RD_850 =5000K RD_930 =3000K RD_935 =3500K RD_940 =4000K RD_950 =5000K	Night Light (500 lumens) NT_A =Night Light, Amber ⁽¹⁶⁾ NT_827 =2700K NT_830 =3000K NT_835 =3500K NT_840 =4000K NT_850 =5000K NT_930 =3000K NT_935 =3500K NT_940 =4000K	LVCP =Low Voltage Relay, controls up to 2 loads, on/off ^{(19),(21),(24),(25)} A=Ambient, E=Exam, R=Reading Light, N=Night Light LVCP/A/E =Relay Connected to Ambient and Exam Loads LVCP/A =Relay Connected to Ambient Load only LVC3 =Low Voltage Relay, controls up to 3 loads - 2 Dimming, 1 on/off ^{(20),(21),(24),(25)} "D" is to be used for dimming, as shown below: LVC3/AD/E/RD =Relay Connected to Ambient and Reading (dim), Exam (on/off) LVC3/AD/RD/N =Relay Connected to Ambient and Reading (dim), Night Light (on/off) EL7W =7W Emergency Battery Pack ^{(21),(22)} EL10W =10W Emergency Battery Pack ^{(21),(22)} EL14W =14W Emergency Battery Pack ^{(21),(22)} IP65 =IP65 rated for dust and water protection, using SD door only TP =Tamper-resistant screws, T20 TORX® (SD door only) GSK =Gasket applied to bottom edge of housing flange; to enable a seal between the APN fixture and the ceiling grid	DFCL-0648W-U =6"x48" gasketed drywall framing kit. Ships with gasket to be applied in the field. Cutout dimensions 6.25"x48.25" DFCL-0648AMW-U =6"x48" gasketed drywall framing kit. Ships with gasket to be applied in the field. Cutout dimensions 6.25"x48.25" DFVR/APN-0648W-U =6"x48" vandal resistant drywall kit, anti-microbial matte white finish. Cutout dimensions 6.25"x48.25" DFVR/APN-0648AMW-U =6"x48" vandal resistant drywall kit, anti-microbial matte white finish. Cutout dimensions 6.25"x48.25"
Replace ___ with "L" for left or "R" for right		Notes (16) Amber night light ~200 lumens. (17) BioUp static and dynamic options are not available with these options. (18) Replace "X" with "L" for left or "R" for right.	Notes (26) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

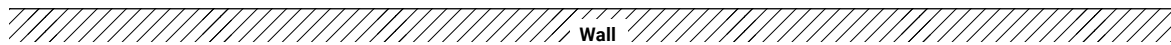
Compartment Configurations



Delivered Lumens	0	1500 Pair	4000 - 7800 Pair	4400 - 8400 Pair	300 Pair
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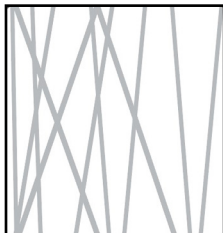


Delivered Lumens	5500 - 9300 Pair	2600 Pair	4300 - 8100 Pair	8400 - 16200 Pair	10200 - 18000 Pair
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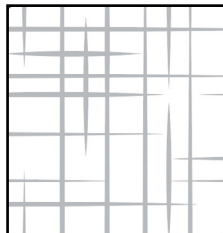


Sample Lenses (default lens is opal symmetrical acrylic)

NP1 Natural Pattern 1 (grasses)



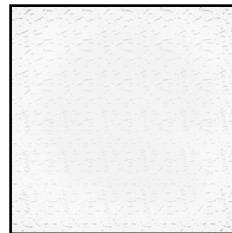
NP2 Natural Pattern 2 (weave)



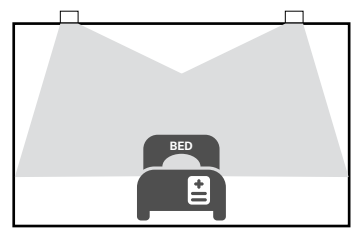
PC3 Perceive Paramid



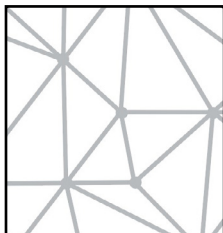
PR1 Perceive Ripple



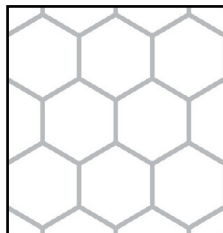
ASY Lens (asymmetric)



NP3 Natural Pattern 3 (geometric)



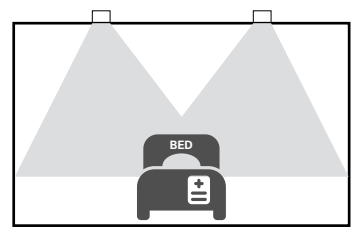
ASY (asymmetric)



PW1 Perceive Waves



Opal Lens (symmetric) – default





Natural Pattern 1 (NP1) - grasses



Natural Pattern 2 (NP2) - weave



Natural Pattern 3 (NP3) - geometric

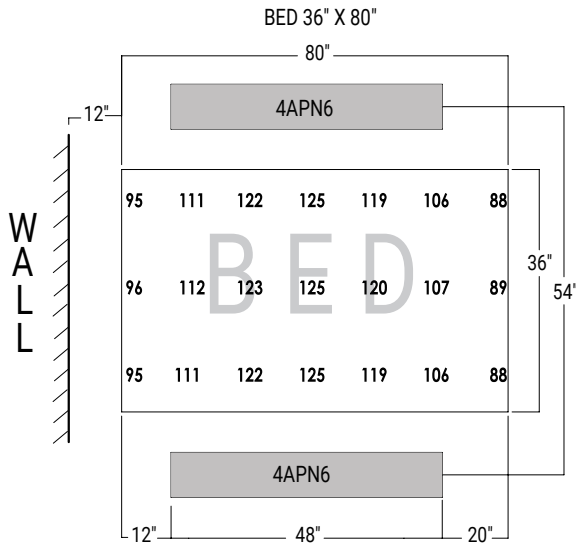


Asymmetric Lens (ASY)

- Patterns (NP1, NP2, NP3, ASY) applied to the lens interior, and thus are not subjected to recurring cleaning and wipe-down.
- Choose IES file with "NP" suffix, for NP1, NP2 or NP3)
- Natural patterns. All have similar performance.

Typical Application: Patient Room

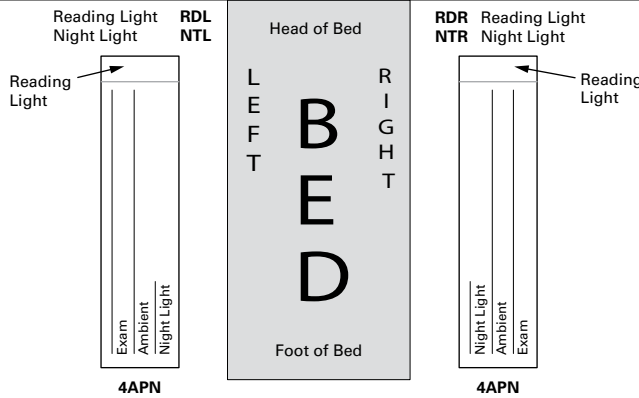
APN - FOOT CANDLE CHART



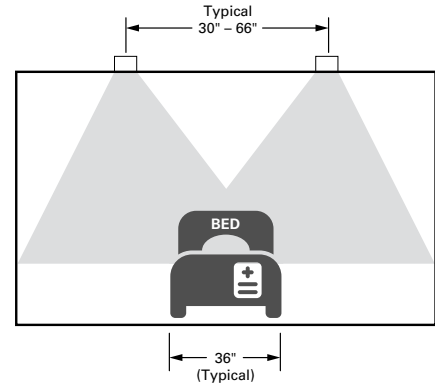
CATALOG NUMBER: 4APN6-39/L835-42/L835

- 8,000 DELIVERED LUMENS- AMBIENT AND EXAM ILLUMINATED - EACH LUMINAIRE
 - CEILING HEIGHT - 9'
 - REFLECTANCES - 80/50/20
 - 36" AFF - AVG FC= 119 MAX=136 MIN= 94
 - 30" AFF - AVG FC= 110 MAX= 126 MIN= 88
- AFF= ABOVE FINISHED FLOOR

Reading Light & Night Light

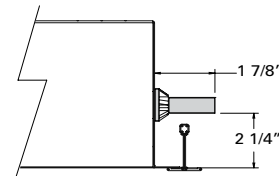


- Left 4APN6L-24/L840-30/840-OL-OPL-UNV-CD/CD-RDL827-NTL827
- Right 4APN6R-24/L840-30/840-OL-OPL-UNV-CD/CD-RDR827-NTR827
- Left 4APN6-24/840-30/840-SD-ASY-CP125-CD/CD-IP65-TP-LVCP/A/E
- Right 4APN6-24/840-30/840-SD-ASY-CP125-CD/CD-IP65-TP



Thermal Protector Detail

Factory wired on the side of fixture. Customer must remove split bushing and insert TP in housing in the field.



Energy and Performance Data

Function	Output Level	Lumens	Wattage	Efficacy
Ambient	39	3587	45.8W	78
	35	3203	40.4W	79
	32	2887	36.4W	79
	28	2551	32.2W	79
	24	2208	27.9W	79
	20	1855	23.8W	78
Exam	42	3851	46.2W	83
	37	3426	40.8W	84
	34	3090	36.8W	84
	30	2726	32.5W	84
	26	2361	28.2W	84
	22	1985	24W	83
Reading		692	15.1W	5
Night		136	3.5W	39

Lumen Calculator

Approximate CCT Multiplier	
3000K	0.98
3500K	1.00
4000K	1.00
5000K	1.01

[View IES files](#)

Product Specifications

Application

- Designed for use in healthcare facilities where exam and ambient illumination is required:

Mounting

- Designed for standard grid sizes from 9/16" to 1" T-grid
- Drywall Kit (DFCL) available for use in hard-lid/ sheetrock ceilings
- DFVR available for high abuse/vandal resistant applications

Housing

- 20-ga steel construction
- Antimicrobial matte white finish

Door

- 20-ga steel door using multiple torsion components to secure door to housing. No visible fasteners.
- Standard door finish antimicrobial matte white
- Optional screw door, for added protection, IK10 rating, and/or IP65 rating.

Lens

- 0.080" diffuse opal acrylic lens symmetric, standard
- Diffuse opal acrylic asymmetric lens optimal (ASY)
- 0.125" or 0.250" clear, polycarbonate lens, optional - on the bottom of the acrylic lens
- Natural patterns available. Pattern is printed on lens interior; not subject to cleaning / wipe-down.

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 exceeding 100 LPW

Electrical

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

Compliances

- cULus Damp Location
- IK10 rating with Clear Polycarbonate Lens
- IP65 from below the luminaire/ceiling
- Meets BSL 1-4 and ISO Class 5 requirements when specified in catalog logic

BABA Domestic Preference Compliance

- This Cooper product is manufactured in the US and meets the BABA cost of components rule. To verify a configured product with specific accessories and options meets BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Our BABA designation is based on the minimum compliance requirement for BABA. Individual Government Agencies may have more stringent compliance standards. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Warranty

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

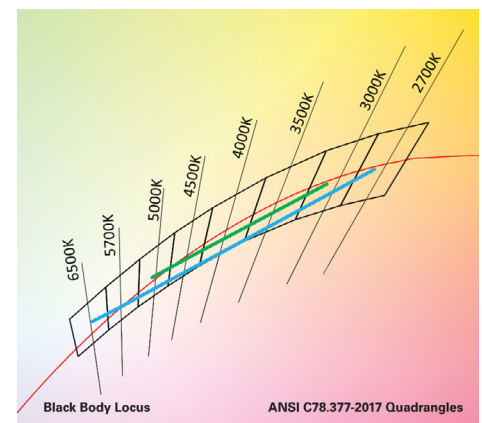
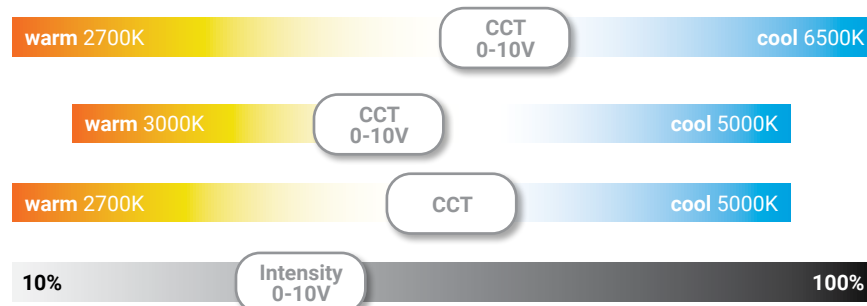


APN6 with VividTune Tunable White

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.

Controlling VividTune and BioUp Tunable White

From wall dimmers to wireless controls, tunable white luminaires are compatible with industry standard 0-10V and DALI controls. One channel to control intensity (brightness) and a second channel to adjust CCT.



3000K - 5000K
2700K - 6500K

Proven Research. Industry Recognized.

BioUp Melanopic Lighting



See better



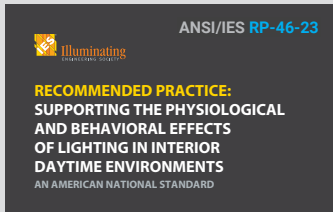
Feel better



Function better



See [BioUp brochure](#) for more details



ANSI/IES RP-46-23

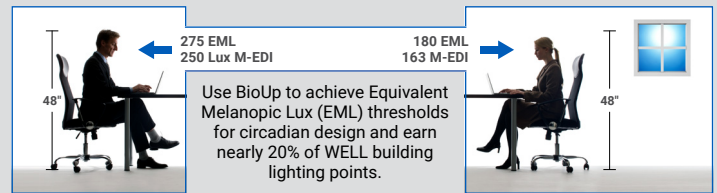
RECOMMENDED PRACTICE:
SUPPORTING THE PHYSIOLOGICAL
AND BEHAVIORAL EFFECTS
OF LIGHTING IN INTERIOR
DAYTIME ENVIRONMENTS
AN AMERICAN NATIONAL STANDARD

ANSI/IES RP-46-23 / TM18 published March 2024 based on over 40 years of research.

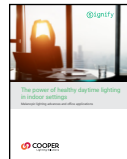
"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18



BioUp solutions maximize WELL points for Circadian Lighting Design (L03):



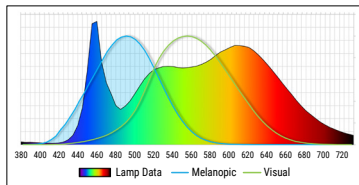
MDER, M-EDI and **EML** are key metrics used to quantify non-visual performance of indoor lighting systems.



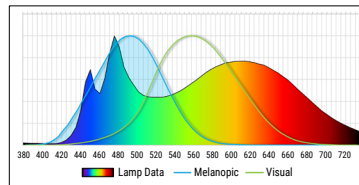
See [BioUp white paper](#) for more details

MDER - Melanopic Daylight Efficacy Ratio (MDER) measures the amount of light stimulating to the melanopsin receptors.

Standard 4000K LED
MDER = .62



BioUp 4000K LED
MDER = .82



30% boost Biological impact compared to traditional LED sources

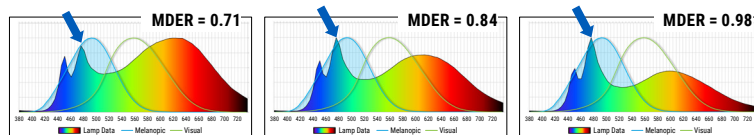
CCT	LED MDER ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.44	-	-	0.43	95
3000K	0.49	-	-	0.54	94
3500K	0.56	0.71	90	0.71	90
4000K	0.64	0.84	87	0.82	87
5000K	0.77	0.98	84	0.98	84

BioUp enhances the LED spectrum with cyan light at 475nm increasing the biological impact of the light to enhance our circadian rhythm which regulates our sleep/wake cycle, daytime engagement, and mood – **all without distorting visual color impression.**

Static (non-tunable)

Static BioUp is used when simple Melanopic Lighting is desired at all times.

Arrow in graph shows BioUp spectrum boost is at 475nm where non-visual biological response is enhanced.



3500K or **4000K** or **5000K**

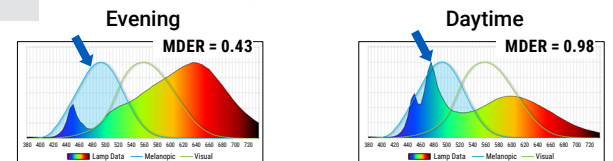
Cyan light component always present



> no CCT control needed

Dynamic - (Tunable)

Dynamic BioUp is used when Melanopic Lighting is desired to adjust during the day.



Warmer CCT Without Cyan content ← → Cooler Light With Cyan content

2700K – 5000K



> Control with Wavelinx, 2ch 0-10V, or DALI