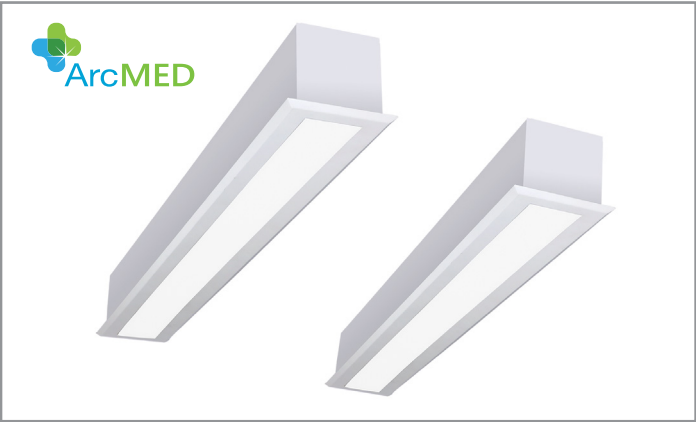


Project		Catalog #		Type	
Prepared by		Notes		Date	



Interactive Menu

- Order Information page 2
- Compartment Configurations page 3
- Energy Data page 4
- VividTune™ Color Tuning Solutions page 5
- BioUp - Melanopic Lighting page 6
- Product Warranty

Fail-Safe

APN ArcMed Patient Narrow Recessed

Patient Room Recessed Ceiling - Narrow
6" x 4" / 3-1/2" Aperture
Behavioral Health / Medical

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

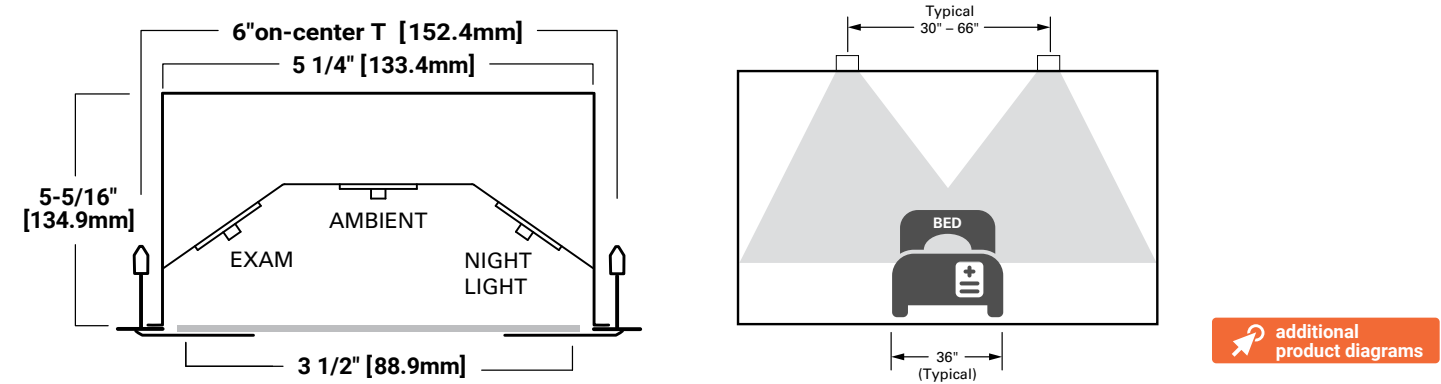
Product Certification

Product Feature

Top Product Features

- 3 1/2" aperture for pleasing illumination
- Fully luminous frosted bottom lens - enables ambient, exam, reading, nightlight illumination - to suit the needs of the patient, medical professionals, and others in the space
- Easy and quick access to LEDs and electrical from room side, using 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
- Clear polycarbonate bottom lens for IK10 impact resistance rating; **ligature resistant**
- IP65 dust and water for ingress protection for sterile environments
- 10-Day Quick Spec available
- Options to meet Buy American Act requirements

Dimensional and Mounting Details



Order Information

SAMPLE CATALOG LOGIC:

Left side of bed: **4APN6-29/L835-41/L840-UNV-CD/CD-RL830-NLL30**
Right side of bed: **4APN6-29/L835-41/L840-UNV-CD/CD-RL830-NLR30**



SAMPLE CATALOG LOGIC:



Left side of bed: **4APN6-29/L835-41/L840-120-HCD/HCD-RL830-EL7W**
Right side of bed: **4APN6-29/L835-41/L840-120-HCD/HCD-RL830-EL7W**

10-DAY QUICK SPEC SAMPLE LOGIC:

Left side of bed: **QS-4APN6-39/L835-41/L840-UNV-HCD/HCD-RL830**

Right side of bed: **QS-4APN6-39/L835-41/L840-UNV-HCD/HCD-RL830-LVC3/AD/E/RD** (LVC3 gets installed in only one of the pairs). **Gray bar denotes available with 10-Day Quick Spec**

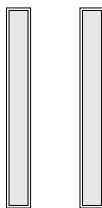
Domestic Preferences ⁽¹⁾	Quick Spec ⁽²⁾	Length	Fixture Family	Fixture Size	Ambient Lumens	Ambient CCT	Exam Lumens ⁽²²⁾	Exam CCT
[Blank]=Standard BAA=Buy American Act	QS=Quick Spec, ArcMed Patient Narrow Recessed Grid, 9/16"-1" T-Bar Quick Spec ⁽²⁾	4=4'	APN=ArcMed Patient Narrow Recessed Grid, 9/16"-1" T-Bar	6=6" on center T-Bar	4' 19=1900 24=2400 29=2900 34=3400 ⁽⁵⁾ 39=3900 ⁽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⁾ L83050=White tuning 80 CRI, 3000K-5000K ⁽³⁾ L92765=White tuning 90 CRI, 2700K-6500K ⁽³⁾ L93050=White tuning 90 CRI, 3000K-5000K ⁽³⁾ B35=BioUp Static 3500 ⁽⁶⁾ B40=BioUp Static 4000K ⁽⁶⁾ B50=BioUp Static 5000K ⁽⁶⁾ B2750=BioUp Tunable 2700K-5000K ⁽⁷⁾	4' 19=1900 23=2300 28=2800 35=3500 ⁽⁵⁾ 41=4100 ⁽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⁾ L83050=White tuning 80 CRI, 3000K-5000K ⁽³⁾ L92765=White tuning 90 CRI, 2700K-6500K ⁽³⁾ L93050=White tuning 90 CRI, 3000K-5000K ⁽³⁾
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 (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 to 5000K or 2700K to 6500K CCT. Must be used in conjunction with W2A driver only. Must be used with two (2) 10V dimming control channels, 1 cct, 1 intensity. (5) Requires thermal protectors. See details, page 3. (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. (22) BioUp static and dynamic options are not available with these options.			

Voltage	Ambient Driver Type	Exam Driver Type	Reading / Night Light ⁽²²⁾	
120=120 Volt 277=277 Volt UNV=Universal Voltage 120/277	CD=10% Dimming HCD=1% Dimming SLTD=DALI 5% LH=Lutron 1% EcoSystem W2A=White tuning, 2 channel analog, 0-10V intensity and CCT control ⁽⁸⁾ W2D=White tuning, 2 channel, DALI Type 8, 1% dimming ⁽¹⁰⁾	CD=10% Dimming HCD=1% Dimming SLTD=DALI 5% LH=Lutron 1% EcoSystem W2A=White tuning, 2 channel analog, 0-10V intensity and CCT control ⁽⁸⁾ W2D=White tuning, 2 channel, DALI Type 8, 1% dimming ⁽¹⁰⁾	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 ⁽¹¹⁾ NLx827=2700K NLx830=3000K NLx835=3500K NLx840=4000K NLx850=5000K NLx930=3000K NLx935=3500K NLx940=4000K 
If ordering Options, such as Relays or Emergencies, please reference the notes as they may require specific voltage of 120 or 277.	Notes (8) White tuning provides correlated color temperatures (CCT) between 3000K to 5000K or 2700K to 6500K. Must be used in conjunction with W2A driver only. Must be used with two (2) 0-10V dimming control channels, 1 CCT, 1 intensity. (10) 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.		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* (11) Amber night light ~200 lumens. (22) BioUp static and dynamic options are not available with these options.	

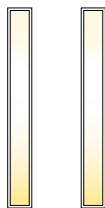
Options	Accessories (order separately) ⁽²¹⁾
LVC3/x/y/z =Low Voltage Relay, Non-Dimming. Controls up to 2 circuits. ^{(12), (14), (19)} LVC3 ordering function callout (x/y): A=Ambient, E=Exam, R=Reading, N=Nightlight. Unused circuit leave blank. i.e. LVC3/A/E =(Relay controlling Ambient & Exam), i.e. LVC3/A =(Relay controlling Ambient only) LVC3/x/y/z =Low Voltage Relay. Controls up to 3 circuits, and up to 2 circuits dimmable. ^{(13), (14), (19)} 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. i.e. LVC3/AD/ED/R =(Relay controlling Ambient (Dimming) / Exam (Dimming) & Reading (no-dimming)) ⁽²⁰⁾ i.e. LVC3/AD/ED/RD =(Relay controlling Ambient (Dimming) / Exam (no dimming) & Reading (Dimming)) ⁽²⁰⁾ EL7W =7W Emergency Battery Pack ^{(14), (15)} EL10W =10W Emergency Battery Pack ^{(14), (16)} EL14W =14W Emergency Battery Pack ^{(14), (15)} CP125 =.125" Polycarbonate Lens. CP125 requires screws to fasten door to housing, obtains IK10 rating. ⁽¹⁷⁾ CP250 =.250" Polycarbonate Lens. CP250 requires screws to fasten door to housing, obtains IK10 rating. ⁽¹⁷⁾ TRS = Tamper-resistant screws, T20 TORX® optional when ordering either CP125 or CP250 lens options. ⁽¹⁸⁾ IP65 = IP65 rated for dust and water protection, using screw door. GSK = Gasket applied to outside edge of flange for grid contact.	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"
Notes (12) 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. (13) 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 no-dimming. Unused circuits, leave function blank. (14) Must specify voltage, 120 or 277. LVC3 are voltage specific and the EL7W, EL10W, EL14W require specific voltage due to thermal protectors. (15) Emergency battery pack is factory installed and incorporates a remote indicator/test switch. (16) 10W EM pack mounted on the back of the fixture, adding 1.25" to fixture depth. (17) CP125 or CP250 lens options uses door screws, therefore will not be a fastener-free door design. (18) Tamper-resistant, T20 TORX® optional, when ordering either CP125 or CP250 options. (19) 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.	Notes (21) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

Compartment Configurations

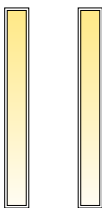
① Off



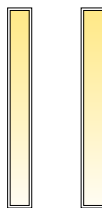
② Reading



③ Ambient



④ Exam



⑤ Night



Delivered Lumens
4' Unit

0

1600 Pair

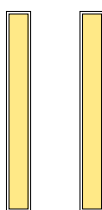
3800 - 7800 Pair

3800 - 8200 Pair

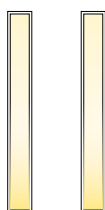
1000 Pair

Wall

⑥ Reading + Ambient



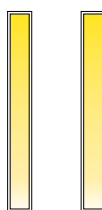
⑦ Reading + Night



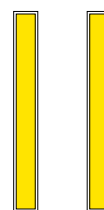
⑧ Ambient + Night



⑨ Ambient + Exam



⑩ All On



Delivered Lumens

5400 - 9400 Pair

2600 Pair

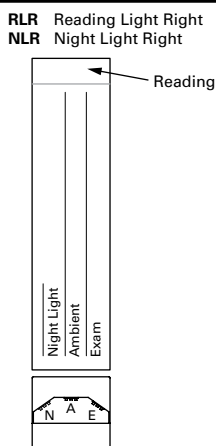
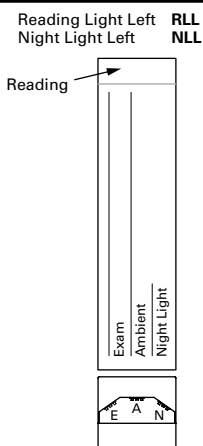
4800 - 8800 Pair

7600 - 16000 Pair

10200 - 18600 Pair

Wall

Reading Light & Night Light



Sample logic to illuminate one patient bed with reading & nightlight

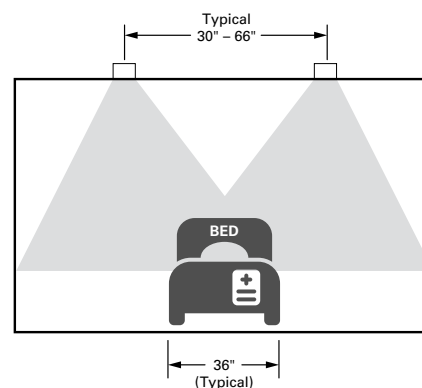
- 1 qty: 4APN6-24/L840-28/L840-UNV-CD/CD-RLL827-NLL827
- 1 qty: 4APN6-24/L840-28/L840-UNV-CD/CD-RLR827-NLR827

Sample logic to illuminate one patient bed without reading & nightlight

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

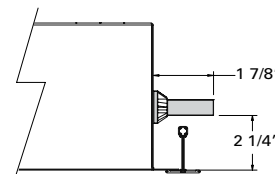
Sample logic to illuminate one patient bed with low voltage relays, LVCP or LVC3
Only one of the fixture pairs require the relay installed

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



Thermal Protector Detail

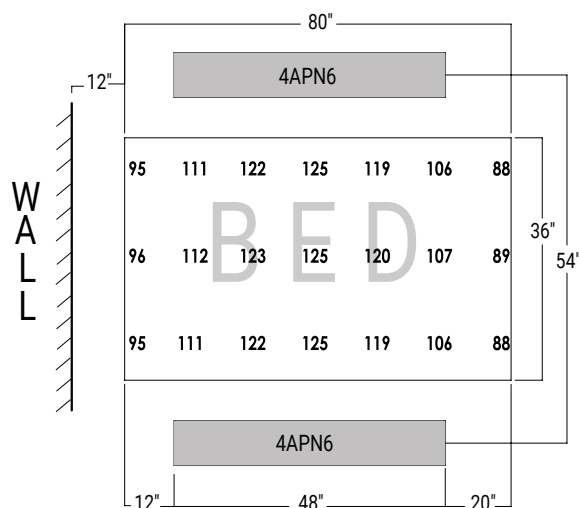
Factory wired on the side of fixture.
Customer must remove split bushing
and insert TP in housing in the field.



Typical Application: Patient Room

APN - FOOT CANDLE CHART

BED 36" X 80"



CATALOG NUMBER: 4APN6-39/L835-41/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

Energy and Performance Data

Function	Output Level	Lumens	Wattage	Efficacy
Ambient	19	1908	17.8W	107
	24	2386	22.3W	107
	29	2863	26.7W	107
	34	3400	40W	85
	39	3850	46W	84
Exam	19	1879	17.9W	105
	23	2348	22.4W	105
	28	2818	26.9W	105
	35	3500	38W	92
	41	4135	46W	90
Reading		1000	15W	67
Night		500	6W	83

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

 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

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
- Optional screw door, for added protection IK10 rating, and/or IP65 rating.

Lens

- 0.080" diffuse opal acrylic lens, standard
- 0.125" or 0.250" clear, polycarbonate lens, optional - on the bottom of the 0.080" opal acrylic lens

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

Warranty

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

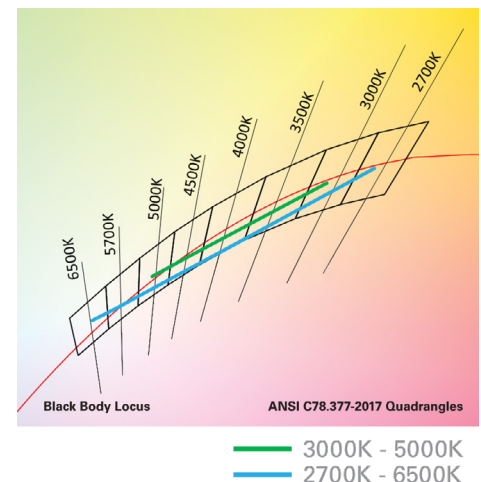
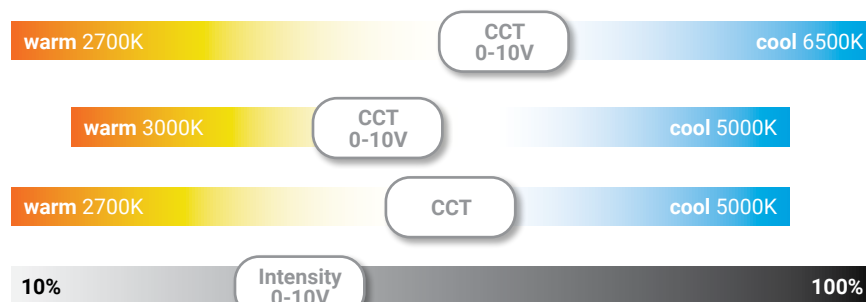


APN6 with VividTune Tunable White

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.



Proven Research. Industry Recognized.

BioUp

Melanopic Lighting



See better



Feel better



Function better



See [BioUp brochure](#) for more details



ANSI/IES RP-46-23

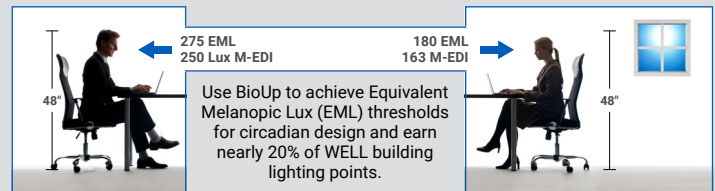
RECOMMENDED PRACTICE:
SUPPORTING THE PHYSIOLOGICAL
AND BEHAVIORAL EFFECTS
OF LIGHTING IN INTERIOR
DAYTIME ENVIRONMENTS
AN AMERICAN NATIONAL STANDARD

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

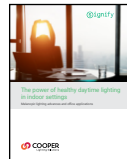
"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18



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.

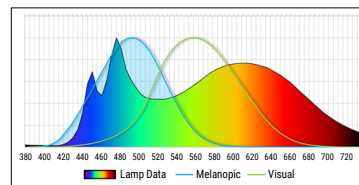
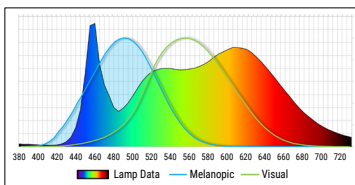


See [BioUp white paper](#) for more details

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

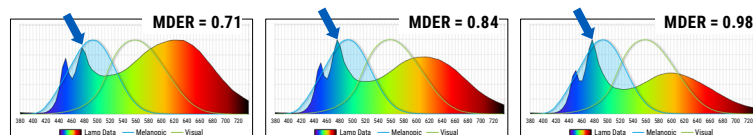
CCT	LED MDER ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.44	–	–	0.43	95
3000K	0.49	–	–	0.54	94
3500K	0.56	0.71	90	0.71	90
4000K	0.64	0.84	87	0.82	87
5000K	0.77	0.98	84	0.98	84

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**

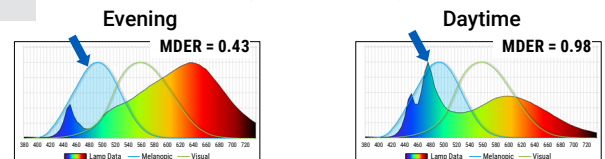
Cyan light component always present



> 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