

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe



APR ArcMed Patient Room

Patient Room Recessed
Ambient / Exam / Reading / Night
Behavioral Health / Medical

Typical Applications

Medical • Behavioral Health • Patient Rooms • Exam Rooms

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Product Certification



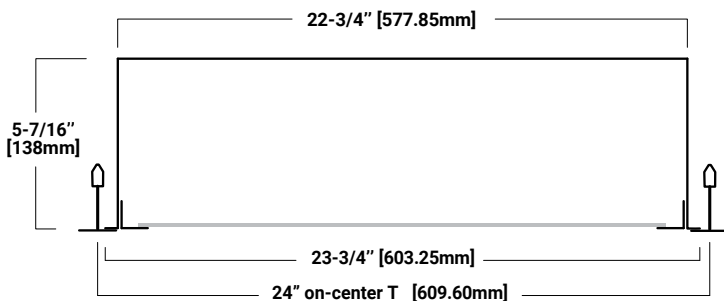
Product Feature



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
- Easy and quick access to LEDs and electrical from room side, using an aesthetically pleasing, fastener-free door frame and lens
- Fully luminous frosted bottom lens for easy wipe down and cleaning. Anti-microbial matte white paint standard
- 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



2x2=23-3/4" x 23-3/4" (W x L)
2x4=23-3/4" x 47-3/4" (W x L)

additional product diagrams



* Choose from any combination of desired illumination scenarios based on the activities in the patient room. Mix or match to suit the need/desires. Details on page 3.




Order Information



SAMPLE: 24APR-35/L940-100/L940-120-HCD/CD-RL935-LVC3/AD/ED/R

SAMPLE : 24APR-35/L840-100/L840-UNV-HCD/CD-NL827

10 DAY RAPID SHIP SAMPLE : 24APR-42/L840-120/L840-UNV-HCD/CD-NL827-RS

" Shaded options denote 10 day rapid ship"

Domestic Preferences	Fixture Size	Fixture Family	Mounting	Ambient Lumens	Ambient CCT	Exam Lumens	Exam CCT	Voltage	Ambient Driver Type	Exam Driver Type
Domestic Preferences ⁽¹⁾	Fixture Size	Fixture Family	Mounting	Ambient Lumens	Ambient CCT	Exam Lumens	Exam CCT	Voltage	Ambient Driver Type	Exam Driver Type
[Blank]=Standard BAA=Buy American Act	22=2x2 24=2x4	APR=ArcMed Patient Recessed	Recessed Grid, 9/16" 1" T-Bar	2x2 17=1700 20=2000 25=2500 30=3000 2x4 28=2800 35=3500 42=4200 45=4500 	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 ^{(2), (3)} L83050=White tuning 80 CRI, 3000K-5000K ^{(2), (3)} L92765=White tuning 90 CRI, 2700K-6500K ^{(2), (3)} L93050=White tuning 90 CRI, 3000K-5000K ^{(2), (3)} 	2x2 34=3400 40=4000 50=5000 60=6000 2x4 80=8000 100=10000 120=12000 150=15000 	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 ^{(2), (3)} L83050=White tuning 80 CRI, 3000K-5000K ^{(2), (3)} L92765=White tuning 90 CRI, 2700K-6500K ^{(2), (3)} L93050=White tuning 90 CRI, 3000K-5000K ^{(2), (3)}	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 ^{(2), (3)}	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 ^{(2), (3)}
Notes			Notes					Notes		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.			For Hard Lid ceiling, use DFCL framing kit (see accessories). For a 1 1/2" T-grid ceiling application, ETO request can be submitted.		(2) 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 10V dimming control channels, 1 color, 1 intensity. (3) Not available in all lumen outputs.			If ordering Options, such as Relays or Emergencies, please reference the notes as they may require specific voltage of 120 or 277.		(2) 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 10V dimming control channels, 1 color, 1 intensity. (3) Not available in all lumen outputs.

Reading Light Options	Night Light Options	Options	Accessories
Reading Light Options	Night Light Options	Options	Accessories (order separately)
RL827=2700K RL830=3000K ⁽⁴⁾ RL835=3500K ⁽⁴⁾ RL840=4000K ⁽⁴⁾ RL850=5000K ⁽⁴⁾ 	NLA=Night Light, Amber NL827=Night Light, 2700K NL830=Night Light, 3000K ⁽⁵⁾ NL835=Night Light, 3500K ⁽⁵⁾ NL840=Night Light, 4000K ⁽⁵⁾ NL850=Night Light, 5000K 	LVCP/x/y=Low Voltage Relay, Non-Dimming. Controls up to 2 circuits. ^{(10), (12)} LVCP ordering function callout (x/y): A=Ambient, E=Exam, R=Reading, N=Nightlight. Unused circuit leave blank. i.e. LVCP/A/E=(Relay controlling Ambient & Exam), i.e. LVCP/A=(Relay controlling Ambient only) LVC3/x/y/z=Low Voltage Relay. Controls up to 3 circuits, and up to 2 circuits dimmable. ^{(11), (12)} 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/E/RD=(Relay controlling Ambient(Dimming)/ Exam(no dimming) & Reading(Dimming) ⁽²⁰⁾ EL7W= 7W emergency battery pack ^{(12), (14)} EL10W=10W emergency battery pack ^{(12), (15)} EL14W=14W emergency battery pack ^{(12), (14)} ETRD=Emergency Transfer Relay connected to Exam Circuit ^{(12), (17)} GTR2=Generator Transfer Relay connected to Exam Circuit ^{(12), (17)} CP125= .125" Clear Poly Lens. CP125 requires screws to fasten door to housing ⁽¹³⁾ CP250= .250" Clear Poly Lens. CP250 requires screws to fasten door to housing ⁽¹³⁾ TRS= Tamper-Resistant Screws, T20 TORX®, optional when ordering either the CP125 or CP250 lens options ⁽¹³⁾ RS= 10 day ship ⁽²⁰⁾	DFCL-2448W-U=2'x4' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25"x48.25" ⁽¹⁹⁾ DFCL-2424W-U=2'x2' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25"x24.25" ⁽¹⁹⁾ DFVR/APR-2448W-U=2'x4' vandal resistant gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 48.25" ⁽¹⁹⁾ DFVR/APR-2424W-U=2'x2' vandal resistant gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 24.25" ⁽¹⁹⁾
Notes	Notes	Notes	Notes
Dimmable standard. Reading light delivers approximately 1000 lumens delivered. (4) For 90CRI, replace "8" with a "9" for RL930, RL935, RL940, RL950.	Night light delivers approximately 500 lumens delivered. NLA, Amber night light is approximately 300 lumens delivered. (5) For 90CRI, replace "8" with a "9" for NL930, NL935, NL940.	(10) LVCP- low voltage relay up to 2 circuits, no-dimming. LVCP ordering function callouts (x,y) are A=Ambient, E=Exam, R=Reading, N=Nightlight. Unused circuits, leave function blank. i.e. LVCP/A/E=low volt relay, Ambient no dimming & Exam no dimming. (11) LVC3- Low Voltage Relay can control up to 3 circuits , and up to 2 circuits can be dimmable. Use with CD or HCD driver options. 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. Unused circuits leave blank. (12) Must specify voltage, 120 or 277 in ordering logic. LVCP, LVC3, ETRD, GTR2 require specific voltage and EL7W, EL10W, EL14W require thermal protectors. (13) CP125 & CP250 options require door screws, therefore will NOT be the standard fastener-free door design. Tamper-resistant, T20 TORX® screws is optional with CP125 and CP250 lens options. (14) Emergency battery pack is factory installed and incorporates a remote indicator/test switch. (15) 10W EM pack mounted on the back of the fixture, adding 1.25" to fixture depth. (17) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option requires one relay when used on a dimming fixture. (20) 10 day ship from receipt of clean PO to ship date. 25 unit maximum per PO. RS only available with shaded options.	(18) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. (19) For Anti-microbial, matte white finish, replace "W" with "AMW", ie .DFVR/APR-2448AMW-U

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 hard ceilings

Housing

- 20-ga steel housing 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

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 110,000 hours
- Efficacies up to 123 LPW

Electrical

- Electronic driver 120-277V standard 0-10V dimming, 10% & 1% dimming available
- DALI and Lutron drivers available
- LVC3 Low voltage controller, non-dimming, 2 load
- LVC3 Low voltage controller, dimmable, 3 load/2dim

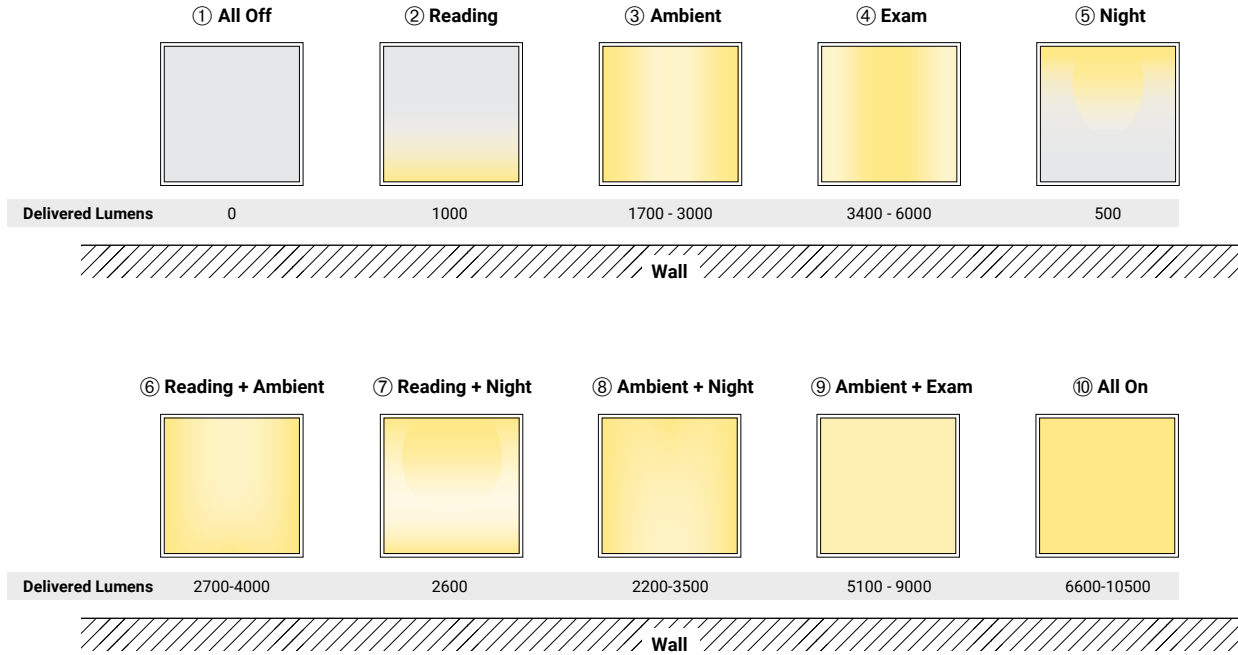
Compliances

- cULus Damp Location.

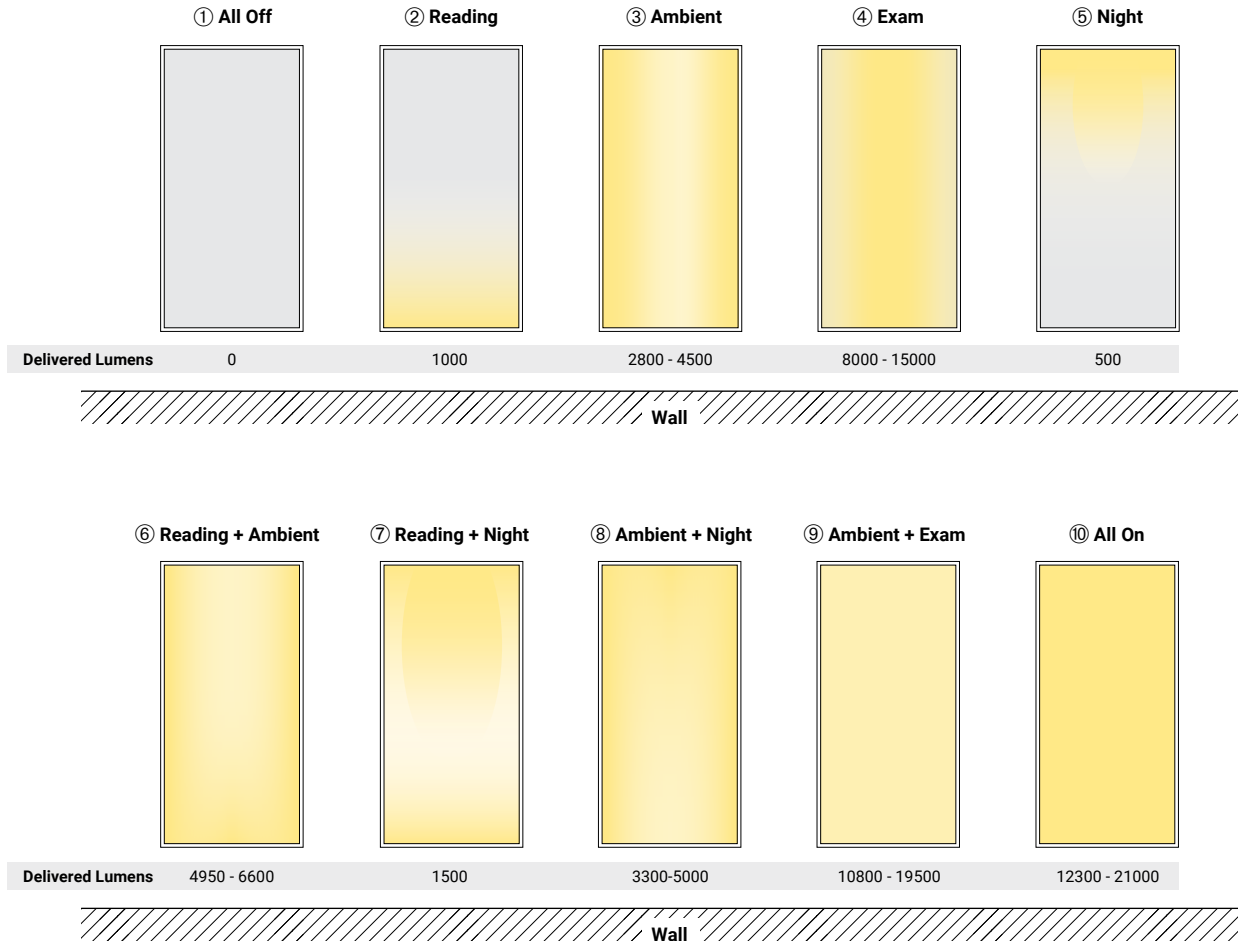
Warranty

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

Compartment Configurations – 2x2



Compartment Configurations – 2x4



Energy and Performance Data

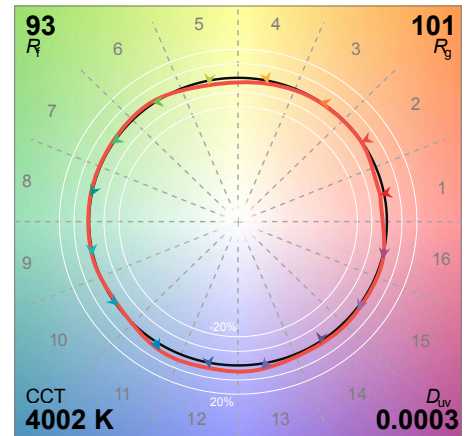
Function	Size	Output Level	Lumens	Wattage	Efficacy
Ambient	2x2	17	1700	17.5W	97
		20	2000	21.9W	92
		25	2500	26.2W	95
		30	3000	30.6W	98
	2x4	28	2800	36.2W	77
		35	3500	45.2W	77
		42	4200	54.2W	77
		45	4500	63.3W	71
Exam	2x2	34	3400	27.6W	123
		40	4000	34.5W	116
		50	5000	41.4W	121
		60	6000	48.3W	124
	2x4	80	8000	72.4W	110
		100	10000	90.5W	110
		120	12000	108.6W	110
		150	15000	126.7W	118
Reading	2x2		1000	15W	67
	2x4		1000	15W	67
Nightlight	2x2		500	6W	83
	2x4		500	6W	83

Notes: All lumen levels are based on 80 CRI, 4000K

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 2x2				
	22APR-17/ L840-X	22APR-20/ L840-X	22APR-25/ L840-X	22APR-30/ L840-X
45	1500	1765	2206	2647
55	1417	1667	2084	2501
65	1302	1531	1914	2297
75	1087	1279	1599	1919
85	619	728	910	1092

Exam 2x4				
	24APR-28/ L840-X	24APR-35/ L840-X	24APR-42/ L840-X	24APR-45/ L840-X
45	1227	1534	1841	1972
55	1163	1454	1745	1869
65	1073	1341	1610	1724
75	887	1109	1331	1426
85	611	764	917	982

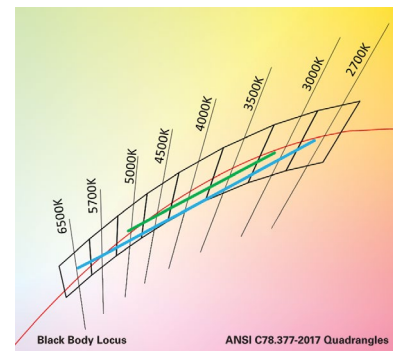
Ambient 2x4				
	22APR-X-34/ L840	22APR-X-40/ L840	22APR-X-50/ L840	22APR-X-60/ L840
45	3000	3529	4412	5294
55	2832	3331	4164	4997
65	2599	3058	3822	4586
75	2176	2560	3200	3840
85	1202	1414	1767	2120

Exam 2x4				
	24APR-X-80/ L840	24APR-X-100/ L840	24APR-X-120/ L840	24APR-X-150/ L840
45	3559	4449	5339	6673
55	3382	4227	5073	6341
65	3129	3912	4694	5867
75	2678	3347	4017	5021
85	1835	2294	2753	3441



APR 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.



3000K - 5000K
2700K - 6500K

Performance Data*

Tunable White - Lumen Adjustment Factors 2x2 With Reading Light				
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.803	0.652
3000K	0.81	0.741	0.82	0.666
3500K	0.841	0.767	0.843	0.691
4000K	0.864	0.786	0.863	0.713
4500K	0.882	0.8	0.876	0.727
5000K	0.886	0.801	0.888	0.741
6500K	-	-	0.901	0.765

2x2 Fixture With Reading Light Example of Approximate Lumen Calculations			
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
CCT Setting	22APR-30L840-X-UNV-CD/x-RL	22APR-30L83050-X-UNV-W2A/x-RL	22APR-30L93050-X-UNV-W2A/x-RL
3000K	-	2430	2223
3500K	-	2523	2301
4000K	3000	2592	2358
4500K	-	2646	2400
5000K	-	2658	2403

Tunable White - Lumen Adjustment Factors 2x4 With Reading Light				
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.907	0.736
3000K	0.915	0.837	0.926	0.752
3500K	0.95	0.866	0.952	0.781
4000K	0.976	0.888	0.974	0.805
4500K	0.997	0.903	0.989	0.821
5000K	1.001	0.905	1.004	0.837
6500K	-	-	1.017	0.864

2x4 Fixture With Reading Light Example of Approximate Lumen Calculations			
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
CCT Setting	24APR-X-150L840-UNV-x/CD-RL	24APR-X-150L83050-UNV-x/W2A-RL	24APR-X-150L93050-UNV-x/W2A-RL
3000K	-	13725	12555
3500K	-	14250	12990
4000K	15000	14640	13320
4500K	-	14955	13545
5000K	-	15015	13575

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.

