Project	Catalog #	Туре
Prepared by	Notes	Date



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Top Product Features

Lighting Solutions

a (s)ignify business

- Patented WaveStream technology with AccuAim optics for uniform, soft illumination
- Aesthetically pleasing luminaire for use in high abuse, medical, wet location, and sterile applications
- · Quick and easy cleaning and wipe-down
- Wet location standard, IP66 standard for dust and water ingress protection
- Clear polycarbonate outer lens for use in behavioral health applications. Ligature resiatant.
- ISO3-9 certified. For use in cleanroom applications or sterile environments



Fail-Safe



ENW/ENC/ENV 2x2 / 2x4

ENW: Wet Location **ENC**: Cleanroom/Medical **ENV**: Vandal Resistant/ High Abuse

Typical Applications

- Patient Rooms
 Corridors
 Schools
 Laboratories
 Sterile Environments
- Clean Rooms Detention Centers Behaviorial Health Public Spaces
- Canopies Locker Rooms.

Product Certification



Product Features



LINEAR DISCONNECT Designed to provide safe and convenient means of disconnecting power

IALDLIRC

protection ations. **Ligature resiatant.** ronments



Fail-Safe

2x2 and 2x4 ENW/ENC/ENV

Order Information

SAMPLE ORDER NUMBER: ENV-24-2-LD2-25-40-CP125-UNV-EDD1 SAMPLE ORDER NUMBER: ENW-24-2-LD2-34-35-CA125-UNV-EDC1 SAMPLE ORDER NUMBER: ENC-24-4-LD2-54-30-CA125-UNV-EDC1

Products configured using shaded options typically ship quicker than products with non-shaded options. Consult customer service for exact lead times.



Domestic Preferences	Family	Туре	Width	Length	LED Type	Lumen Outputs	Color Temperature	Lens
Domestic Preferences (1)	Family	Туре	Width	Length	LED Type	Lumen Outputs	Color Temperature	Lens
[Blank]=Standard BAA=Buy American Act	EN=Encounter	W=Wet Location, Wipe Down, Sealed C=Clean Room Rated, Wet Location V=Vandal Resistant	24 =24"	2 =2' 4 =4'	LD2=LED 2.0	2' x 2' 25=2500 Lumens 34=3400 Lumens 33=3900 Lumens 43=4300 Lumens 2' x 4' 45=4500 Lumens 54=5400 Lumens 70=7000 Lumens	30=3000K 35=3500K 40=4000K 50=5000K 2765=White Tuning, 2700K-6500K 3050=White Tuning, 3000K-5000K	ENW and ENC CA08=Clear Acrylic, 0.080" Thick CA125=Clear Acrylic, 0.125" Thick ENV CP125=Clear Polycarbonate, 0.125" Thick CP187=Clear Polycarbonate, 0.187" Thick CP259=Clear Polycarbonate, 0.250" Thick
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.								

Voltage Voltage	Driver	Number of Drivers	Options Options		
UNV=Universal Voltage 120-277V 120-120 Volt 277=277 Volt	EDC=Electronic Driver, Non-Dimming EDD=Electronic Driver, 0-10V Dimming,10% ED1D=Electronic Driver, 0-10V Dimming,1% SLTD=Fifth Light DALI Driver, (10%-100% Dimming) ^{(D, (4)} EDSD1=Step Dim Driver, (1%-100% Dimming) ^(G) LH=Lutron HiLume, (LDE1 series) 1% -100% Ecosystem Driver with Soft-on Fade to Black Dimming W2A=White Tuning, 2ch, Intensity and CCT Control ⁽⁶⁾	1=1 Driver 2=2 Drivers ⁽⁷⁾	EL7W=Emergency Driver, 7W ^{(9), (10)} EL14W=Emergency Driver, 74W ^{(9), (10)} GTR2=Bodine Generator Transfer Relay ⁽¹¹⁾ ETRD=Iota Emergency Transfer Relay ⁽¹¹⁾ CP=CCEA Compliant ⁽⁶⁾ GSK/GRD=Gasket around perimeter of bottom edge of lens to seal between the fixture and T-Grid (standard on ENC) GSK/HSG=Gasket on back side of housing (standard on ENC) HS=High Security (ENV only). For use in behavioral high-risk areas, ligature resistant. Steel frame is attached to housing, tamper resistant hardware, and minimum 0.250° clear polycarbonate lens (DFVR accessory not required with HS option) ^{(12, (17)} 90=90CRI		
	Notes (2) Fifth-Light DALI, SLTD option is not available with 3000 and 3400 lumen packages. (3) Two drivers required on SLTHD option for 6700 lumens and up. (4) Must be used with DALI Contol System. (5) Step dim driver not available with 3000, 3400, and 7000 lumen packages. (6) 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.	Notes (7) Two drivers required on 5LTHD option for 6700 lumens and up.	Notes (8) Row mounting not possible. (9) Repositionable adhesive is used to secure the lens to the fixture. Separate the lens from the fixture to disengage the EZ key. Then re-attach the lens to the fixture. (10) Test switch must be activated by LASER, ordered separately. (11) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 includes (2)two relays on fixtures with dimming drivers. GTR2 requires specified voltage of 120V or 277V. ETR0 option only requires (1) one relay when used on a dimming fixture. (12) For use in hard ceilings only. Ceiling cut-out sizes as follow: 2x2 : 25.87" x 25.87" 2x4 : 25.87" * 49.87". Blocking around the perimeter of the ceiling cut-out required. (17) DFVR accessory is not required for (HS) High Security option.		

Accessories

MSC4-PK=Mounting Security Clips. Use to secure fixture to grid or to attach tie-wires (13)

MSC4-PK=Mounting Security Clips. Use to secure fixture to grid or to attach tie-wires ⁽¹³⁾ DFCL-224W=U*=2' × 2' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" × 24.25" ⁽¹⁵⁾ DFCL-2448W-U*=2' × 4' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" × 48.25" ⁽¹⁵⁾ DFVR/ENV-2424W*-U=2' × 4' yandal gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" × 48.25" ⁽¹⁶⁾ DFVR/ENV-244W*-U=2' × 4' yandal gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" × 48.25" ⁽¹⁶⁾

LASER=Laser pointer, enables remote testing to simulate AC power loss and engagement of emergency operation⁽¹⁴⁾

Notes

*Change W to AMW for antimicrobial matte white finish. (13) Mounting clips included standard with fixture. Order MSC4-PK for spare or replacement clips. (14) Test switch must be activated by LASER, ordered separately. (15) DFCL is used to install the ENW and ENC in hard ceiling applications. For applications requiring the ENV to be installed in a hard ceiling, the DFVR is required. (16) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. (18) DFVR not necessary with HS option.

Gasket Detail





Fail-Safe

2x2 and 2x4 ENW/ENC/ENV

Product Specifications

Construction

- 3-1/4" deep housing extruded aluminum frame
 Injected molded composite end plates
- Injected molded composite end plates
 End plates screws for strength, rigidity and gap
- eliminations
- End plates accessory grid-lock feature adds safety
- Four auxiliary fixture end suspension points
- Large access plate for supply connection

Controls

- 0-10V dimming drivers to 1% standard
- Fifth Light DALI driver, step-dimming and 3rd party drivers available

Electrical

- LED's available in 3000K, 3500K, or 4000K at 80 CRI or 90 CRI minimum
- TM21 life at 60,000 hours up to L92 and calculated L70 exceeds 288,000 hrs
- Drivers available in 120-277V and 347V
- White Tuning options available with Cooper Lighting's Vividtune

Emergency Battery Pack Options

- Optional 120V-277V integral emergency battery pack available in 7W or 14W
- 90-minute backup period for code compliance
- Test switch with laser pointer allows safe testing from floor
- Patented EZ Key prevents accidental discharge during construction

Driver Access

Drivers can be accessed via plenum

Finish

High reflectance baked matte white enamel finish

Optics

- Precision formed optical assembly
- Positively retained high optical grade acrylic lenses
 WaveStream technology provides a visually comfortable fully luminous surface
- Clear outer acrylic or polycarbonate lens precision cut and applied, for superior preotection

Compliance Components are UL recognized

- cULus Damp Location listed for 25C ambient indoor
- environments
- Complies with IESNA LM-79 and LM-80 standards

rcMED

- IP66 rated standard
- ISO3-9 certified
- Tested for ISO 5 compliance. ISO3 and ISO4 environments typically employ uni-directional vertical air-flow and a ventilated raised floor to remove airborne particles. Not uncommon for the entire ceiling to be either HEPA or ULPA filters. Filtered air is continually directed downward, passing through the ventilated raised floor, and recirculated – to remove more of the airborne particles than are created. Often, laminar-flow surface mount luminaires are used to illuminate the space. With proper air flow and air exchanges, proper installation, this non-shedding luminaire is acceptable for use in ISO3-9 environments.
- IK10 rating when ordering the EN with a polycarbonate lens (minimum 0.125" thickness)

Warranty

• Five year limited warranty standard. Optional ten year limited warranty available.

Nominal	Delivered	Lumen	Chart
Homman	Denvereu	Lunich	onart

					Lumens								LPW					
Size	Lumen PKG	сст	CRI	Watts	CA08	CA125	CA08	CA125	CP125	CP187	CP250	CA08	CA125	CA08	CA125	CP125	CP187	CP250
22	19	4000	80	16.5	1902	1861	1902	1861	1740	1720	1699	115.3	112.8	115.3	112.8	105.5	104.2	103
22	25	4000	80	20.7	2459	2407	2459	2407	2250	2224	2198	118.8	116.3	118.8	116.3	108.7	107.4	106.2
22	30	4000	80	25	2959	2896	2959	2896	2707	2676	2645	118.4	115.8	118.4	115.8	108.3	107	105.8
22	34	4000	80	28.6	3352	3281	3352	3281	3067	3031	2996	117.2	114.7	117.2	114.7	107.2	106	104.8
22	39	4000	80	33.1	3835	3754	3835	3754	3509	3468	3427	115.9	113.4	115.9	113.4	106	104.8	103.5
22	43	4000	80	36.8	4268	4177	4268	4177	3905	3859	3814	116	113.5	116	113.5	106.1	104.9	103.6
24	30	4000	80	22.3	2933	2870	2933	2870	2683	2652	2621	131.5	128.7	131.5	128.7	120.3	118.9	117.5
24	34	4000	80	25.2	3333	3262	3333	3262	3050	3014	2979	132.3	129.4	132.3	129.4	121	119.6	118.2
24	40	4000	80	30.1	3962	3878	3962	3878	3625	3583	3541	131.6	128.8	131.6	128.8	120.4	119	117.6
24	45	4000	80	34.5	4479	4384	4479	4384	4098	4051	4003	129.8	127.1	129.8	127.1	118.8	117.4	116
24	49	4000	80	37	4867	4764	4867	4764	4453	4402	4350	131.5	128.8	131.5	128.8	120.4	119	117.6
24	54	4000	80	41.2	5377	5263	5377	5263	4919	4862	4805	130.5	127.7	130.5	127.7	119.4	118	116.6
24	58	4000	80	44.5	5728	5606	5728	5606	5240	5179	5118	128.7	126	128.7	126	117.8	116.4	115
24	67	4000	80	50.4	6618	6477	6618	6477	6055	5984	5914	131.3	128.5	131.3	128.5	120.1	118.7	117.3
24	70	4000	80	53	6942	6794	6942	6794	6351	6278	6204	131	128.2	131	128.2	119.8	118.5	117.1
24	74	4000	80	56.2	7298	7143	7298	7143	6677	6600	6522	129.9	127.1	129.9	127.1	118.8	117.4	116

Approximate Color Temperature Multiplier

4000K	1.0
3000K	0.944
3500K	0.972
5000K	1.078

5000K 1.078
Notes: Delivered lumens in table above are
approximate values. Refer to LM79 data/IES files for

 Shipping Data

 Catalog No.
 Weight (lbs)

 2x4 CA125 Lens
 30

 2x2 CA125 Lens
 15



precise values.

2x2 and 2x4 ENW/ENC/ENV



Fail-Safe



EN LED with VividTune Tunable White

VividTune tunable white luminaires from Cooper Lighting Solutions deliver highquality 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 (example only)								
сст	3000K	-5000K	2700K-6500K					
	80 CRI	90 CRI	80 CRI	90 CRI				
2700K	-	-	0.894	0.738				
3000K	0.968	0.809	0.903	0.762				
3500K	0.984	0.827	0.932	0.779				
4000K	0.988	0.860	0.919	0.814				
4500K	1.002	0.864	0.946	0.808				
5000K	1.003	0.868	0.945	0.829				
6500K	-	-	0.949	0.850				

2' x 4' Fail Safe Encounter LED- Example of Lumen Calculation							
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #				
CCT Setting	ENW-24-4-LD2-54-35-CA125- UNV-EDC1	ENW-24-4-LD2-54-3050-CA125- UNV-W2A1	ENW-24-4-LD2-54-3050-CA125- UNV-W2A1-90				
3000K	-	4777	3992				
3500K	4935	4856	4081				
4000K	-	4876	4244				
4500K	-	4945	4264				
5000K	-	4950	4283				

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, click here for tunable white application guides.



Example of Lumen Adjustment Calculation

ENW-24-4-LD2-54-3050-CA125-UNV-W2A1 at 80 CRI tuned to 3500K

Adjusted Lumen = published Im x adjusted Im factor

Adjusted Lumen = 4935 * 0.984

Adjusted Lumen = 4856 lm

* Lumen adjustment factors are for reference and may be different for each product selected. Refer to IES files for actual performance data on each.



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