

Cove-25

CC-AI-2500

Mounting and Distribution

Product Description

Concealed Cove steel fixture built for T5 lamping. UL Listed. This fixture is Cradle to Cradle Silver Certified™ by MBDC.

Ordering Guide

Product, lamping, & length					Options					
CC -	AI -	25			CWM -		1CWQ -			
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Color	Ballast Options	Circuiting	Other Options	Volts
CC Concealed Cove	AI Asymmetric indirect	25	1 →	3	T5HO T5	CWM (matte white) is standard	LP/ELB is standard LPD/MK7 LPD/ECO see Ballast Options	1CWQ	AMA F LP/EF WKC/WP see Other Options	120 277
			1 →	4						
			2 →	6						
			2 →	8						
			see notes							
<p>notes: Lamp count = total number of lamps in the fixture For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.</p>										

CC-AI-2514T5HO-CWM-LP/ELB-1CWQ-F-120 is a typical catalog number for a 1-lamp (1 lamp in cross-section), 4-foot long, high-output T5 fixture, matte white finish, low-profile electronic ballast, pre-wired with single-circuit branch wiring, fuse, 120 volts.

Cross-section lamping



Ballast Options

Specify in place of **LP/ELB**:

LPD/MK7 Low-profile dimming electronic ballast, Advance Mark VII (4' and 8' T5HO)

LPD/ECO Low-profile dimming electronic ballast, Lutron ECO-10 (4' T5 and all T5HO)

Other Options

AMA Adjustable Mounting Angle. Quick-attach component to tilt housing either **5°** or **10°**.

F Fuse. Slow or fast blow, determined by Litecontrol.

LP/EF Low-profile Emergency Fluorescent Ballast. Battery-powered ballast from a UL Listed manufacturer will operate one T5 or T5HO lamp for 1 1/2 hours.

WKC/WP Corner Wiring Kit. With quick-connects.

Questions to Ask

1. Row information, including desired fixture lengths?
2. Lamp type? 3. Ballast options? 4. Other options? 5. 120 or 277 volt?



Specifications

HOUSING. Die-formed steel. Paint finish is baked white enamel. Ends provided with 7/8" diameter hole to accommodate pre-wiring.

REFLECTORS. Angled reflector is die-formed high-reflectance aluminum, precisely shaped for maximum horizontal light projection. Straight sloped reflector is 24-gauge steel, finished in high-reflectance white for maximum indirect light distribution. Luminance Control Deflector™ (LCD), finished in high reflectance white, reduces wall brightness directly above fixture and minimizes socket shadows between fixtures.

LAMPING. Available in one-lamp T5 or T5HO.

BALLAST. Low-profile Electronic Ballast (LP/ELB), high power factor, thermally protected Class P, Sound Rated A, less than 10% THD, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

CIRCUITING. Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory-installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-wiring Information for details.

BALLAST DISCONNECT. Fixture supplied with a ballast disconnect device to enable compliance with the NEC.

MOUNTING. Fixtures are installed in cove provided by others. See Planning for installation for detailed information.

CERTIFICATION. Fixture and electrical components are UL and/or CUL Listed (UL LISTED), and bear the I.B.E.W., A.F. of L. label. This fixture is Cradle to Cradle Certified™ Silver by MBDC. Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

Planning for installation

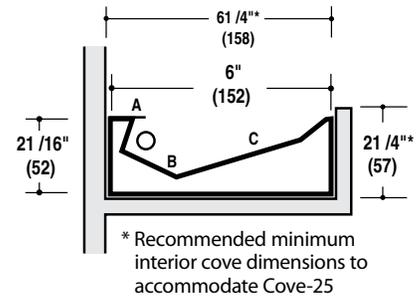
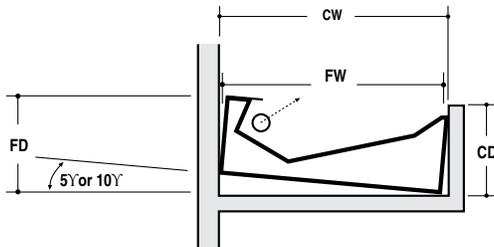
Cove provided by others. Interior cove dimensions should allow for 2 1/16" x 6" fixture cross-section to fit within cove, taking into consideration as-built tolerances. For maximum efficiency, wall and ceiling above cove should have matte surfaces with high reflectances. See design guidelines below. Maximum fixture weight per foot is two and a half pounds.

Corner Wiring Kit

Provides the advantages of pre-wiring around corners. Make connections at each end of the flexible whip, push wires into fixtures, then snap onto headers. Specify **WKC/WP** (with push-in quick-connects).

Adjustable Mounting Angle (AMA) Option

With this option, you can get an even lower beam throw, projecting light at lower angles resulting in a greater amount of light directed into the space. A simple, snap-on accessory is used to tilt the fixture an additional 5° or 10° above horizontal. Room geometry and cove location are considerations when using this option. A simple cross-section sketch of the space, drawn to scale, will determine the appropriate angle of tilt needed.



Angle of Tilt	Ordering Option	Fixture Depth (FD)	Fixture Width (FW)	Recommended Cove Depth (CD)	Recommended Cove Width (CW)
0	(standard)	2 1/16"	6"	2 1/4"	6 1/4"
5°	AMA	2 9/16"	6 3/16"	2 1/4"	6 1/2"
10°	AMA	3 1/16"	6 1/4"	2 1/4"	6 1/2"

Actual fixture lengths are sized to match T5 lamp lengths. See table below to determine total fixture and row lengths.

Nominal Fixture Length	3'	4'	6'	8'
Actual Fixture Length	34 3/8"	46 1/4"	68 5/8"	92 1/4"

Design guidelines

For maximum illumination level flexibility, two types of lamping are available- standard T5 and high-output T5. For other lamping choices in a 3 1/8" deep x 8" wide fixture refer to Cove-30 (CC-AI-3000).

As the distance from fixture to ceiling is increased, light distribution becomes more uniform. To avoid excessive brightness on ceiling, maximize the distance from the fixture to the ceiling. A fixture with less output (i.e., standard T5) may be tolerated closer to ceiling than one with higher output (high-output T5). To best evaluate an acceptable mounting position, a mock-up is recommended.

Position fixtures along walls as desired to satisfy visual design goals. To avoid excess corner brightness, stop fixtures 7-13" short of end walls; 0-6" from outside corner. See table above for actual fixture lengths.

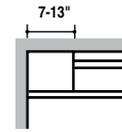
As-built cove dimensions should include tolerances to accommodate fixture. See recommended cove depth and width dimensions in table above.

If using high-output T5 lamps, be advised that lamp lumens per foot for each of the lamp lengths are different. Caution is advised when mixing fixture lengths in rows.

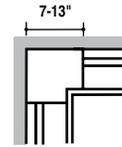
For an even lower peak output angle and better distribution, consider the Adjustable Mounting Angle (AMA) option. This lowers the beam throw by 5° or 10°. This should only be considered if viewing angles prevent a direct view of the raised portion of the fixture, or if a cut-off angle below horizontal is deemed acceptable.

If the zonal cavity method is used to calculate an average illumination, it is advised in a perimeter layout to derate the illuminance by 10%.

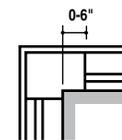
Single row end clearance



Inside corner positioning



Outside corner positioning



Photometric data

ANGLE	CANDLEPOWER SUMMARY					OUTPUT LUMENS	CC-AI-2514T5HO-LP/ELB 86.9 % Efficiency																ZONAL LUMEN SUMMARY							
	0	45	90	135	180		ITL Certified Test Report #ITL49604				80				70				50				30				0		ZONE	LUMENS
180	1031	1031	1031	1031	1031		RCC	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	0				
175	1066	1066	1033	993	967	97	RW	.83	.83	.83	.83	.71	.71	.71	.71	.48	.48	.48	.28	.28	.28	.09	.09	.09	.00	0-90°	0	0.0	0.0	
165	1158	1111	1008	825	749	276	0	.75	.72	.69	.66	.64	.61	.59	.57	.42	.41	.39	.24	.23	.23	.08	.08	.07	.00	90-120°	1701	34.0	39.2	
155	1228	1143	951	663	579	422	1	.68	.63	.58	.54	.58	.54	.50	.46	.37	.34	.32	.21	.20	.19	.07	.06	.06	.00	90-130°	2409	48.2	55.5	
145	1272	1141	866	509	430	527	2	.62	.55	.49	.45	.53	.47	.42	.39	.32	.29	.27	.19	.17	.16	.06	.06	.05	.00	90-150°	3549	71.0	81.7	
135	1519	1118	756	377	319	613	3	.57	.48	.42	.37	.48	.41	.36	.32	.29	.25	.23	.16	.15	.14	.05	.05	.04	.00	90-180°	4344	86.9	00.0	
125	1862	1256	620	260	227	708	4	.52	.43	.36	.32	.44	.37	.31	.27	.25	.22	.19	.15	.13	.12	.05	.04	.04	.00	0-180°	4344	86.9	00.0	
115	2155	1454	455	164	152	784	5	.48	.38	.32	.27	.40	.33	.27	.24	.23	.19	.17	.13	.11	.10	.04	.04	.03	.00					
105	1548	1397	265	92	100	673	6	.44	.34	.28	.23	.37	.29	.24	.20	.20	.17	.14	.12	.10	.09	.04	.03	.03	.00					
95	437	484	58	50	49	245	7	.40	.31	.25	.20	.34	.26	.21	.18	.18	.15	.13	.11	.09	.07	.03	.03	.02	.00					
90	0	10	0	4	0		8	.37	.28	.22	.18	.32	.24	.19	.15	.17	.13	.11	.10	.08	.07	.03	.03	.02	.00					
							9	.35	.25	.19	.16	.30	.22	.17	.14	.15	.12	.10	.09	.07	.06	.03	.02	.02	.00					
							10	Floor Cavity Reflectance .20																						