

- A** Luminance Control Deflector™ minimizes socket shadows.
- B** High-reflectance aluminum for maximum horizontal light projection.
- C** High-reflectance white reflector for efficient indirect distribution.



Cove-30

CC-AI-3000

Mounting and Distribution

Product Description

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

Ordering Guide

Product, lamping, & length						Options					
CC -	AI -	30				CWM -					
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Finish	Ballast Options	Tandem Wiring	Circuiting	Other Options	Volts
CC Concealed Cove	AI Asymmetric indirect	30	1 1/2 → 2 →	2 →	T8 T5HO T5	CWM (matte white) is standard	ELB10 is std. for T8 or BX LP/ELB is std. for T5 or T5HO	-- → TW → see notes	1CWQ 2CWQ	AMA F LP/EF WKC/WP see Other Options	120 277
			1 1/2 → 2 →	3 →							
			1 1/2 → 2 →	4 →							
			2, 4 →	6 →							
			2, 4 →	8 →							
			1 →	2 →	BX40 BX50						
			2 →	4 →							
			4 →	8 →							
			2 →	3 →	BX39						
			4 →	6 →							
			see notes								
notes: Lamp count = total number of lamps in the fixture * For applications using 1-lamp in cross-section T5 or T5HO see Cove-25. Tandem wiring not available for one-lamp cross-section fixtures For ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.											

CC-AI-3024T8-CWM-ELB10-TW-2CWQ-F-120 is a typical catalog number for a 2-lamp (2 lamps in cross-section), 4-foot long T8 fixture, matte white finish, electronic ballast, tandem-wired, pre-wired with two circuit branch wiring, fuse, 120 volts.

Cross-section lamping			
1-T8	2-T8	2-T5 or T5HO	1-BX39,40 or 50

Ballast Options

Specify in place of **ELB** or **LP/ELB**, contact factory for availability/compatibility with lamping:

- DA/MK7** Advance Mark VII dimming ballast
- DL/ECO** Lutron ECO-10 dimming ballast
- DO/HEL** Osram Sylvania dimming ballast

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 a 7/8" hole to accommodate pre-wiring.

REFLECTORS. Die-formed steel, finished in high-reflectance white, precisely shaped for maximum horizontal light projection. Configuration with four reflector surfaces includes a high-reflectance specular aluminum insert. Luminescence Control Deflector™ (LCD), finished in high-reflectance white, reduces wall brightness directly above fixture and minimizes socket shadows between fixtures.

LAMPING. Available in one- and two-lamp T5, T5HO or T8; one-lamp 39-, 40-, or 50-watt twin-tube compact fluorescent cross-sections.

BALLAST. Electronic Ballast (ELB10 - for T8 lamping) or Low-profile Electronic Ballast (LP/ELB - for T5 or T5HO lamping), high power factor, thermally protected Class P, Sound Rated A, 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.

TANDEM WIRING. When selected from Ordering Guide, fixtures wired to switch in-line lamps separately, providing two (two-lamp cross-section fixtures only) levels of light.

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

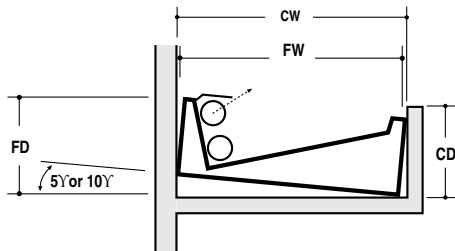
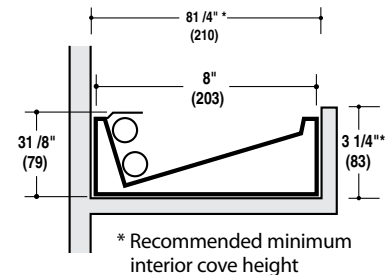
Cove provided by others. Interior cove dimensions should allow for 3 1/8" x 8" fixture cross-section to fit within cove, taking into consideration as-built tolerances. For maximum efficiency, wall and ceiling above cove should have matte surfaces with high reflectances. See design guidelines below. Maximum fixture weight per foot is four 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

When room geometry allows, fixture may be tilted, thereby lowering the beam and resulting in a more effective distribution of light into the room. **AMA** (Adjustable Mounting Angle) quick attach component snaps onto housing to raise back of fixture 5° or 10°. Recommended cove sizes are shown.



Angle of Tilt	Ordering Option	Fixture Depth (FD)	Fixture Width (FW)	Recommended Cove Depth (CD)	Recommended Cove Width (CW)
0	(standard)	3 1/8"	8"	3 1/4"	8 1/4"
5°	AMA	3 3/4"	8 1/4"	3 1/4"	8 5/8"
10°	AMA	4 1/4"	8 3/8"	3 1/4"	8 5/8"

Design guidelines

For maximum illumination level flexibility, five lamp combinations are available. For a one-lamp T5 or T5HO fixture in a 2 1/16" deep x 6" wide housing refer to Cove-25 (CC-AI-2500).

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., one-lamp T8) may be tolerated closer to ceiling than one with higher output. To best evaluate an acceptable mounting position, a mock-up is recommended.

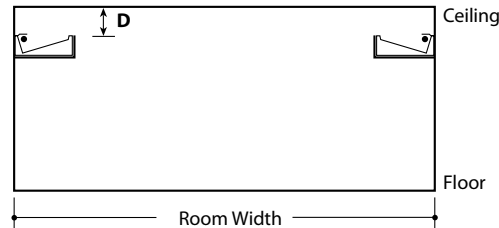
Position fixtures along walls as desired to satisfy visual design goals. To avoid excess corner brightness, stop fixtures 9-15" short of end walls; 0-6" from outside corner.

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.

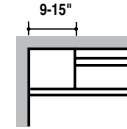
For even lower beam throw and better distribution, consider the Adjustable Mounting Angle (AMA) option. This lowers the beam throw by 5° or 10°. Size the cove to hide lamps and fixture. This should only be considered if viewing angles prevent a direct view of the raised portion of the fixture, or if 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%.

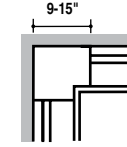
If uniformity of light levels is desired, room width should not exceed the following:
 Fixtures along one wall: 6xD
 Fixtures on opposite walls: 12xD



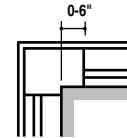
Single row end clearance



Inside corner positioning



Outside corner positioning



Photometric data

ANGLE	CANDLEPOWER SUMMARY					OUTPUT LUMENS
	0° PLANE PERPENDICULAR TO LAMPS					
	0	45	90	135	180	
180	950	950	950	950	950	91
175	977	964	957	928	923	
170	991	976	949	903	890	
165	949	976	932	873	854	260
160	851	933	910	830	820	
155	758	854	881	802	816	387
150	671	768	847	751	898	
145	591	687	803	758	1001	485
140	510	602	756	805	1164	
135	439	517	698	864	1365	579
130	370	441	639	957	1563	
125	304	366	576	1091	1657	675
120	256	301	506	1217	1922	
115	209	237	431	1308	2006	750
110	169	183	350	1365	1913	
105	135	135	260	1246	1313	614
100	105	97	164	815	1020	
95	51	66	68	707	908	315
90	3	3	10	149	212	

ANGLE	CANDLEPOWER SUMMARY					OUTPUT LUMENS
	0° PLANE PERPENDICULAR TO LAMPS					
	0	45	90	135	180	
180	1682	1682	1682	1682	1682	163
175	1610	1616	1684	1781	1872	
170	1485	1545	1669	1909	2080	
165	1345	1435	1646	2048	2306	494
160	1214	1315	1601	2185	2439	
155	1086	1210	1556	2247	2537	793
150	954	1090	1496	2266	2770	
145	846	966	1422	2324	3055	1062
140	733	847	1339	2454	3345	
135	624	744	1223	2623	3604	1302
130	532	626	1135	2760	3762	
125	433	520	1025	2892	3636	1449
120	365	425	907	2933	3671	
115	297	338	773	2818	3416	1422
110	248	263	625	2559	2834	
105	192	190	465	2006	1886	998
100	154	141	295	1195	1297	
95	64	98	120	910	1013	421
90	8	2	9	186	265	

CC-AI-3014T5HO-LP/ELB 83.0 % Efficiency																								
Litecontrol Certified Test Report #29616000																								
RCC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR	0	.79	.79	.79	.79	.68	.68	.68	.68	.46	.46	.46	.26	.26	.26	.08	.08	.08	.00	.00	.00	.00		
1	.72	.69	.66	.63	.61	.59	.56	.53	.40	.39	.37	.23	.22	.22	.07	.07	.07	.00	.00	.00	.00	.00		
2	.65	.60	.55	.51	.56	.51	.47	.44	.35	.33	.31	.20	.19	.18	.06	.06	.06	.00	.00	.00	.00	.00		
3	.60	.52	.47	.43	.51	.45	.41	.37	.31	.28	.26	.18	.17	.15	.06	.05	.05	.00	.00	.00	.00	.00		
4	.54	.46	.40	.36	.46	.40	.35	.31	.27	.24	.22	.16	.14	.13	.05	.05	.04	.00	.00	.00	.00	.00		
5	.50	.40	.35	.30	.42	.35	.30	.26	.24	.21	.19	.14	.12	.11	.04	.04	.04	.00	.00	.00	.00	.00		
6	.46	.36	.30	.26	.39	.31	.26	.23	.22	.18	.16	.13	.11	.09	.04	.03	.03	.00	.00	.00	.00	.00		
7	.42	.32	.26	.22	.36	.28	.23	.19	.19	.16	.14	.11	.09	.08	.04	.03	.03	.00	.00	.00	.00	.00		
8	.39	.29	.23	.19	.33	.25	.20	.17	.17	.14	.12	.10	.08	.07	.03	.03	.02	.00	.00	.00	.00	.00		
9	.36	.26	.21	.17	.30	.23	.18	.15	.16	.13	.10	.09	.07	.06	.03	.02	.02	.00	.00	.00	.00	.00		
10	.33	.24	.18	.15	.28	.21	.16	.13	.14	.11	.09	.08	.07	.05	.03	.02	.02	.00	.00	.00	.00	.00		
Floor Cavity Reflectance .20																								

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	% LAMP	% LUMINAIRE	%
180-90°	4151	83.03	100.00	
90-0°	0	.00	.00	
180-0°	4151	83.03	100.00	

CC-AI-3024T5HO-LP/ELB 81.0 % Efficiency																								
Litecontrol Certified Test Report #29626000																								
RCC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR	0	.77	.77	.77	.77	.66	.66	.66	.66	.45	.45	.45	.26	.26	.26	.08	.08	.08	.00	.00	.00	.00		
1	.70	.67	.64	.61	.60	.57	.55	.52	.39	.38	.37	.23	.22	.21	.07	.07	.07	.00	.00	.00	.00	.00		
2	.64	.58	.54	.50	.54	.50	.46	.43	.34	.32	.30	.20	.19	.18	.06	.06	.06	.00	.00	.00	.00	.00		
3	.58	.51	.46	.42	.49	.44	.40	.36	.30	.27	.25	.17	.16	.15	.06	.05	.05	.00	.00	.00	.00	.00		
4	.53	.45	.39	.35	.45	.39	.34	.30	.27	.24	.21	.15	.14	.13	.05	.05	.04	.00	.00	.00	.00	.00		
5	.48	.39	.34	.29	.41	.34	.29	.26	.24	.20	.18	.14	.12	.11	.04	.04	.04	.00	.00	.00	.00	.00		
6	.44	.35	.29	.25	.38	.30	.26	.22	.21	.18	.16	.12	.11	.09	.04	.03	.03	.00	.00	.00	.00	.00		
7	.41	.32	.26	.22	.35	.27	.22	.19	.19	.16	.13	.11	.09	.08	.04	.03	.03	.00	.00	.00	.00	.00		
8	.38	.29	.23	.19	.32	.24	.20	.16	.17	.14	.12	.10	.08	.07	.03	.03	.02	.00	.00	.00	.00	.00		
9	.35	.26	.20	.16	.30	.22	.17	.14	.15	.12	.10	.09	.07	.06	.03	.02	.02	.00	.00	.00	.00	.00		
10	.32	.23	.18	.14	.28	.20	.16	.13	.14	.11	.09	.08	.06	.05	.03	.02	.02	.00	.00	.00	.00	.00		
Floor Cavity Reflectance .20																								

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	% LAMP	% LUMINAIRE	%
180-90°	8099	81.00	100.00	
90-0°	0	.00	.00	
180-0°	8099	81.00	100.00	

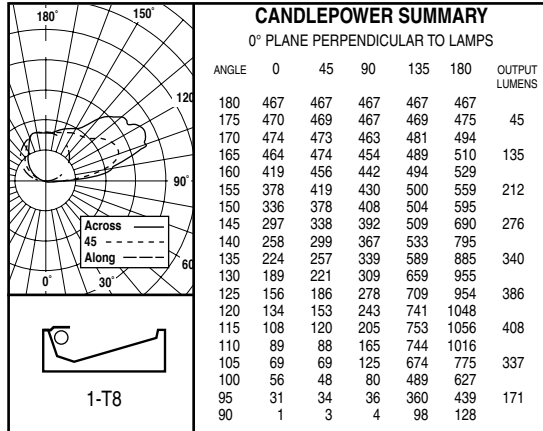
LITECONTROL

100 Hawks Avenue Hanson, MA 02341
 781 294 0100 f: 781 293 2849 litecontrol.com

Quick Find **30**

 litecontrol.com

Photometric data



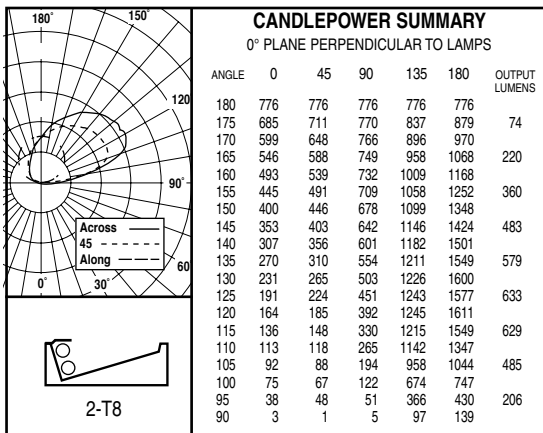
CC-AI-3014T8-LP/ELB 79.5 % Efficiency
Litecontrol Certified Test Report #29611000

RCC RW	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	.76	.76	.76	.76	.65	.65	.65	.65	.44	.44	.44	.25	.25	.25	.08	.08	.08	.00			
1	.69	.66	.63	.60	.59	.56	.54	.51	.38	.37	.36	.22	.21	.21	.07	.07	.07	.00			
2	.62	.57	.53	.49	.53	.49	.45	.42	.34	.31	.29	.19	.18	.17	.06	.06	.06	.00			
3	.57	.50	.45	.41	.49	.43	.39	.35	.30	.27	.25	.17	.16	.15	.05	.05	.05	.00			
4	.52	.44	.38	.34	.44	.38	.33	.30	.26	.23	.21	.15	.14	.12	.05	.04	.04	.00			
5	.48	.38	.33	.29	.40	.34	.29	.25	.23	.20	.18	.13	.12	.11	.04	.04	.03	.00			
6	.44	.35	.29	.25	.37	.30	.25	.22	.21	.18	.15	.12	.10	.09	.04	.03	.03	.00			
7	.40	.31	.25	.21	.34	.27	.22	.19	.18	.15	.13	.11	.09	.08	.03	.03	.03	.00			
8	.37	.28	.22	.18	.31	.24	.19	.16	.17	.14	.11	.10	.08	.07	.03	.03	.02	.00			
9	.34	.25	.20	.16	.29	.22	.17	.14	.15	.12	.10	.09	.07	.06	.03	.02	.02	.00			
10	.32	.23	.18	.14	.27	.20	.15	.12	.14	.11	.09	.08	.06	.05	.03	.02	.02	.00			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2305	79.51	100.00
90-0°	0	.00	.00
180-0°	2305	79.51	100.00



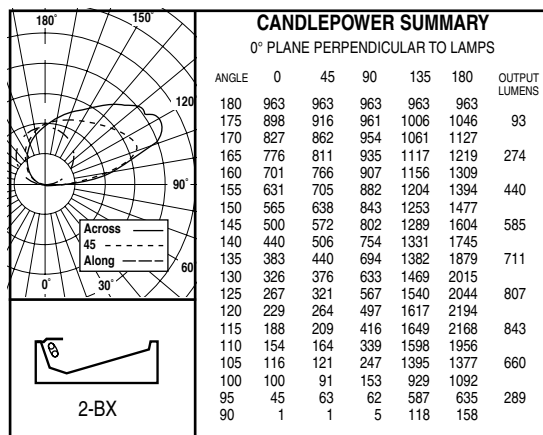
CC-AI-3024T8-LP/ELB 63.2 % Efficiency
Litecontrol Certified Test Report #29521000

RCC RW	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	.60	.60	.60	.60	.51	.51	.51	.51	.35	.35	.35	.20	.20	.20	.06	.06	.06	.00			
1	.55	.52	.50	.48	.47	.45	.43	.41	.31	.30	.28	.18	.17	.17	.06	.05	.05	.00			
2	.50	.45	.42	.39	.42	.39	.36	.33	.27	.25	.23	.15	.14	.14	.05	.05	.04	.00			
3	.45	.40	.36	.32	.39	.34	.31	.28	.24	.21	.20	.14	.13	.12	.04	.04	.04	.00			
4	.41	.35	.31	.27	.35	.30	.26	.24	.21	.18	.17	.12	.11	.10	.04	.04	.03	.00			
5	.38	.30	.26	.23	.32	.27	.23	.20	.18	.16	.14	.11	.09	.08	.03	.03	.03	.00			
6	.35	.28	.23	.20	.29	.24	.20	.17	.16	.14	.12	.10	.08	.07	.03	.03	.02	.00			
7	.32	.25	.20	.17	.27	.21	.17	.15	.15	.12	.10	.09	.07	.06	.03	.02	.02	.00			
8	.29	.22	.18	.15	.25	.19	.15	.13	.13	.11	.09	.08	.06	.05	.02	.02	.02	.00			
9	.27	.20	.16	.13	.23	.17	.14	.11	.12	.10	.08	.07	.06	.05	.02	.02	.02	.00			
10	.25	.18	.14	.11	.21	.16	.12	.10	.11	.09	.07	.06	.05	.04	.02	.02	.01	.00			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3664	63.18	100.00
90-0°	0	.00	.00
180-0°	3664	63.18	100.00



CC-AI-3024BX-ELB 74.5 % Efficiency
Litecontrol Certified Test Report #29620000

RCC RW	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	.71	.71	.71	.71	.61	.61	.61	.61	.41	.41	.41	.24	.24	.24	.08	.08	.08	.00			
1	.65	.62	.59	.57	.55	.53	.51	.48	.36	.35	.34	.21	.20	.20	.07	.06	.06	.00			
2	.59	.54	.49	.46	.50	.46	.42	.40	.31	.29	.28	.18	.17	.16	.06	.06	.05	.00			
3	.54	.47	.42	.38	.46	.40	.36	.33	.28	.25	.23	.16	.15	.14	.05	.05	.04	.00			
4	.49	.41	.36	.32	.41	.36	.31	.28	.24	.22	.20	.14	.13	.12	.05	.04	.04	.00			
5	.45	.36	.31	.27	.38	.32	.27	.24	.22	.19	.17	.13	.11	.10	.04	.04	.03	.00			
6	.41	.33	.27	.23	.35	.28	.23	.20	.19	.16	.14	.11	.10	.08	.04	.03	.03	.00			
7	.38	.29	.24	.20	.32	.25	.21	.17	.17	.14	.12	.10	.08	.07	.03	.03	.02	.00			
8	.35	.26	.21	.17	.29	.23	.18	.15	.16	.13	.11	.09	.08	.06	.03	.02	.02	.00			
9	.32	.24	.18	.15	.27	.20	.16	.13	.14	.11	.09	.08	.07	.06	.03	.02	.02	.00			
10	.30	.21	.17	.13	.25	.18	.14	.12	.13	.10	.08	.08	.06	.05	.02	.02	.02	.00			

Floor Cavity Reflectance .20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	4696	74.54	100.00
90-0°	0	.00	.00
180-0°	4696	74.54	100.00