

# MIGHTY MAC™

## CD SERIES - TUNABLE WHITE LED

### PRODUCT FEATURES:

- » High-output, high-CRI LED lamp sources with 2700K-6500K white tuning capability
- » Surface corner mount with hinged door construction
- » TIG-welded housing without post-weld grinding for additional strength



### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

### SPECIFICATIONS

**HOUSING:** One piece die-formed prime grade material as specified – see Ordering Information. Corners continuously seam welded and smooth with no post grinding (TIG).

**LENS:** As specified – maximum thickness 0.875" – see Ordering Information. High-efficiency diffused DR acrylic inner lens.

**LENS RETENTION:** Vertically adjustable continuous "Z" brackets of prime grade material, secured to housing via thru-studs (6" maximum spacing).

**DOOR:** One-piece die-formed prime grade material as specified – see Ordering Information.

**HINGE:** Staked and welded external piano hinge (1/2" knuckle/ 1/8" diameter pin) standard. See options for Full Length Internal Hinge (IHF).

**FASTENERS:** Hardened stainless steel security screws as specified – see Ordering Information. Fully recessed.

**FINISH:** TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

**LED MODULE:** Serviceable tunable-white, mid-power LED array provides 2700K through 6500K CCT range with a two-point path. Minimum 82 CRI standard (R9 >20) with optional minimum 90 CRI (R9 >50).

**DRIVER:** 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. Serviceable, constant-current multi-channel programmable driver with dual analog (0-10V) control inputs for intensity and CCT. Linear intensity and CCT adjustment profiles with 1-100% range and dim-to-dark capabilities on intensity. Optional DALI (Type 8) driver with 1-100% range and dim-to-dark intensity dimming with linear intensity and CCT adjustment profiles.

**LUMINOUS SEAL:** Polyurethane foam prevents light leaks from luminaire base.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to [www.kenall.com](http://www.kenall.com).

**WARRANTY:** Limited five (5) year warranty on LED lamps.

**LISTINGS:** Luminaire is certified to UL 1598 and UL 8750 standards by Intertek Testing Services for Damp Locations. See Ordering Information for Wet Location applications.



### ORDERING INFORMATION (Ex: CD-4-2/1-67T-27/65K8-DTW-DV-SYM/9-1-LEL)

Model	Size	Housing/Door	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
<b>CD</b>	<b>4</b>	<b>/</b>					<b>SYM /</b>		
<b>Nominal Size</b>		<b>Lamp Power</b>		<b>Voltage</b>		<b>Fastener</b>			
<b>4</b>	8" x 48"	<b>45T</b>	45 Watt Tunable White	<b>DV</b>	120-277 Volts	<b>1</b>	Torx® Head w/ Center Pin		
		<b>67T</b>	67 Watt Tunable White	<b>120</b>	120 Volts	<b>2</b>	Allen Head w/ Center Pin		
		<b>90T</b>	90 Watt Tunable White	<b>277</b>	277 Volts	<b>Options</b>			
<b>Housing/Door Material</b>		<b>Lamp Color</b>		<b>Lens (Inner/Outer)‡</b>		<b>LEL</b>			
<b>0</b>	14-Ga CRS (Painted White)	<b>27/65K8</b>	2700-6500K CCT Range (82 CRI min)	<b>SYM</b>	.125" Diffused DR Acrylic	LED Emergency Battery Backup (45T max., wired to cool white circuit)			
<b>1</b>	16-Ga CRS (Painted White)	<b>27/65K9</b>	2700-6500K CCT Range (92 CRI min)	<b>G</b>	.125" Clear Polycarbonate	<b>DLN</b>			
<b>2*</b>	18-Ga CRS (Painted White)			<b>7</b>	.187" Clear Polycarbonate	LED Night Light w/Light Level Control (voltage specific selection required)			
<b>3</b>	14-Ga SS (Painted White)			<b>8</b>	.187" Clear Tempered Glass	<b>FS</b>			
<b>4</b>	16-Ga SS (Painted White)			<b>9</b>	.250" Clear Polycarbonate	Single Fuse & Holder			
<b>6</b>	14-Ga SS (Brushed)			<b>A</b>	.250" Clear Tempered Glass	<b>IHF</b>			
<b>7</b>	16-Ga SS (Brushed)			<b>B</b>	.375" Clear Polycarbonate	Full Length Internal Hinge			
		<b>Driver Type</b>		<b>C</b>	.375" Clear Tempered Glass	<b>KO</b>			
		<b>ATW</b>	Analog (0-10V) Dimming Tunable White Driver	<b>J</b>	.500" Clear Polycarbonate	1/2" EMT Knockout			
		<b>DTW</b>	DALI Tunable White Driver	<b>P</b>	.500" Clear Tempered Glass	<b>RGT</b>			
				<b>N</b>	.750" Clear Tempered Glass	Removable Gear Tray			
						<b>SK</b>			
						Speaker Housing Extension			
						<b>WL</b>			
						Wet Location Listed			
						* n/a as Door Material			
						‡ Refer to lens specifications			



[www.kenall.com](http://www.kenall.com)

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CD-TW-092018

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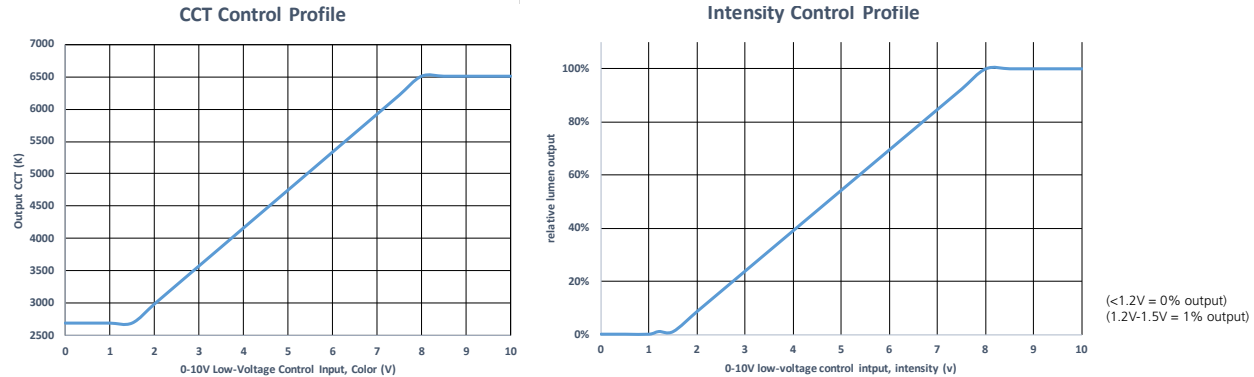
Lamp Type	Performance at 4000K Tuning			
	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
45T-27/65K8	4,484	97	46	80,000
45T-27/65K9	3,614	79	46	80,000
67T-27/65K8	6,708	99	68	80,000
67T-27/65K9	5,556	82	68	80,000
90T-27/65K8	8,712	95	92	60,000
90T-27/65K9	7,022	76	92	60,000

All products tested with the SYM/9 lens configuration. Output with other lens configurations will vary. Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for additional information.

### PERFORMANCE SCALING, BY LAMP COLOR

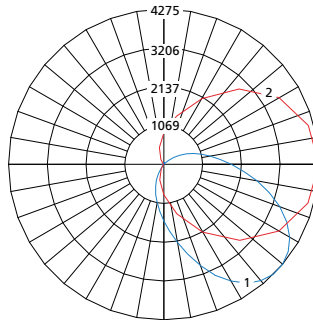
CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.97	83	10	83	97	0.98	92	57	89	98
3000	0.98	84	15	83	98	0.99	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.01	86	28	84	98	1.01	96	90	92	100
5000	1.01	86	25	83	98	1.03	96	96	91	101
5700	1.02	85	23	82	98	1.02	96	96	91	100
6500	1.04	84	16	82	96	1.02	96	96	90	100

### CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE



NOTE: The provided information is the typical expected performance of a single luminaire. Additional luminaires on the same 0-10V line may result in different control profiles. Fine tuning of system performance should be completed after installation is complete. To avoid CCT shift between luminaires, care should be taken to minimize voltage drop on the CCT Control line. It is recommended to limit the load on the CCT control circuit to twenty (20) 45T or ten (10) 67T/90T luminaires or less.

Model: CD-4-1/1-90T-27/65K8-ATW-DV-SYM/9-1



Maximum Candela = 4275 Located At Horizontal Angle = 0, Vertical Angle = 45

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)



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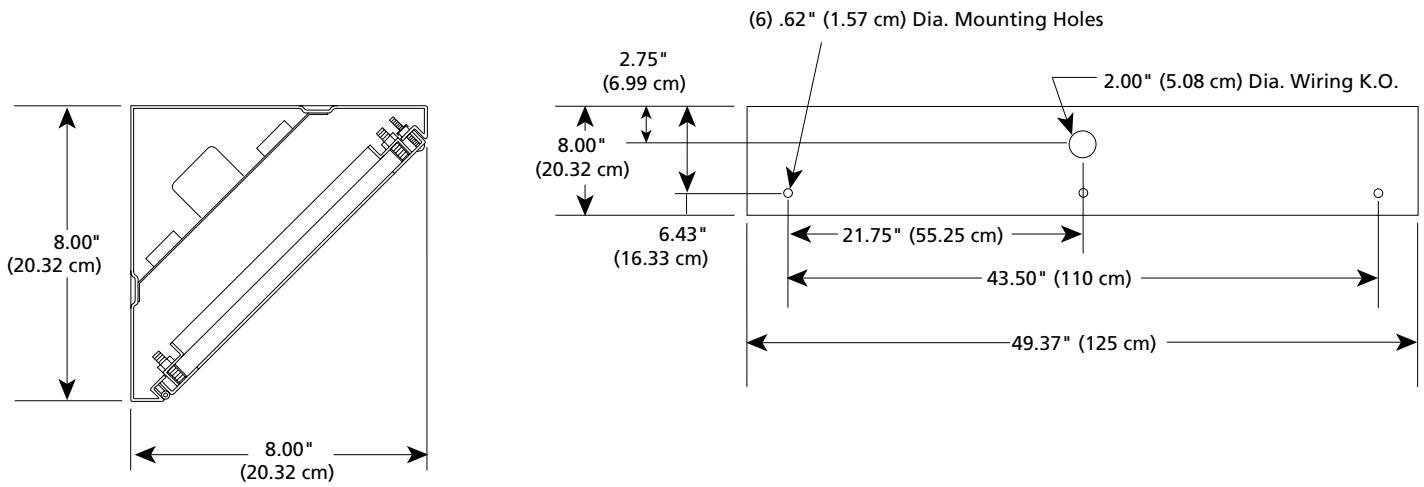
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### DIMENSIONAL DATA



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