SIMPLESEAL DOWNLIGHT

Luminaires for Cleanroom Applications

CDL SERIES

PRODUCT FEATURES:

» 6" sealed, recessed downlight with flush lens trim

» High-output, high CRI LED lamp sources with 2700K-6500K white tuning capability



SPECIFICATIONS

HEAT SINK: Die-cast aluminum with external radial fins for natural convection.

ROUGH-IN FRAME: 18-gauge die-formed, corrosion-resistant steel. Vertically adjustable collar accommodates ceiling thicknesses up to 2", adjustable post-installation. Universal mounting brackets accept 3/4" and 1-1/2" lathers channel, 1/2" EMT conduit and hanger bars. Quick-access junction box accessible post-installation from above and below ceiling. Includes (4) 1/2" and (2) 3/4" knock-outs to allow straight conduit runs. Listed for (4) 12AWG, 90°C conductors and feed-thru branch wiring. Provided with FMC with electrical quick-connect to Trim Section.

TRIM/HOUSING SECTION: IP-rated housing section incorporates the heat sink, LED module, optics and lower trim. Configurable with an IP64-rated Flush lens trim that is secured to the Rough-In frame with hidden torsion springs, and an IP65 Flush lens trim secured with four (4) Phillips-head, captive fasteners. See trim ordering information for available options.

OPTICAL: High-efficiency mixing chamber design producing uniform light output. Clear flush-mounted outer lens. Available with various reflector distribution patterns, finishes and lens materials see Ordering Information for available options.

LED MODULE: Tunable-white LED array provides 2700K through 6500K CCT range with a two-point path. 3-step MacAdam variation allowance on each CCT. Minimum 82 CRI (R9 > 20).

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. Optional DALI (Type 8) driver. Logarithmic intensity profile with 0.1-100% range, with dim-to-dark capabilities. Linear profile on CCT adjustment. Refer to charts on page 2 for further details.

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

WARRANTY: Limited five (5) year LED warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratory for non-IC and Wet Location installations. IP64 and IP65 rating per IEC60598. NSF2 Splash/Non-Food Zone. Optional CCEA compliance. Meets FED-STD-209E/Class 100 (ISO 5) Cleanrooms.



ORDERING INFORMATION (EX: CDL6-FF-2FW-22T-27/65K8-W-CSS-T-RIG6-DV-DTW-LEL)

TRIM									ROU	GH-IN			
Model	Trim Style	Trim Finish	Lamp Power	Lamp Color	Distribu	ition	Reflector Finish	Flush Lens Type	Rough	n-In	Input Voltage	Driver Type	Options
CDL6				27/65K8				<u> </u>	RI	G6			
frim Styl	e				Distrib	oution			Roug	h-In			
	sh Lens (With F		.,		М		dium		RIG6	6" Rc	ough-In		
IF Flu	sh Lens (Witho	ut Fasteners -	IP64)		W	Wi	de		Input	Volta	ae		
rim Fini:	sh				Reflec	tor Fin	ish		DV		277V, 50/60Hz		
FW (Cold-Rolled Ste	el in Flat Whit	e		FW	Flat Wh	ite		120	120V	AC, 60Hz		
BR 1	Type 304 Stainl	ess Steel with	4B Brushed Fini	sh	CS Clear Specular 277 277VAC, 60Hz								
FW 1	ype 304 Stainl	ess Steel in Fla	at White		CSS	Clear Se	mi-Specular						
									Drive	r Type	•		
amp Po	wer				Flush I	Lens Ty	pe		ATW	Anal	og (0-10V) Dimmir	ig Tunable White	Driver
2T 2	22W Tunable W	hite LED			т	1/8" Cl	ear High-Impact A	crylic	DTW	DALI	Tunable White Driv	/er	
28T 2	28W Tunable W	hite LED					5 1		DMX	DMX	Tunable White Driv	ver (Consult Facto	ory)
.amp Co	lor								Optic	ons			
27/65K8		CCT Range (8	2 CRI min)						LĖL		gency Battery Back	up with Remote	Test Switch
		5.							FS		& Holder	•	
									CCEA	CCEA	Approved (specifie	ed voltage require	ed)



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CDL6-TW-052121

PROJECT INFORMATION

Job Name Fixture Type

Catal

og Number_			

Approved by

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PERFORMANCE

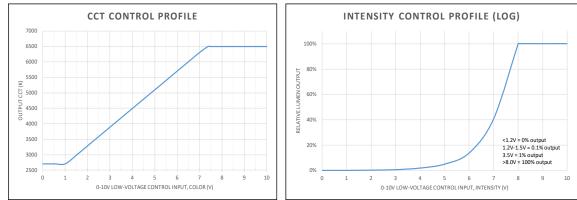
Op	tic		Deliver	Estd. L70 LED Life			
Distribution	Reflector Finish	Lamp Code	Lumen Output (lm)	Efficacy (Im/W)	Input Power (W)	(hrs)	
	CS	22T-27/65K8	1,356	57	24	75,000	
	CS	28T-27/65K8	2,170	72	30	60,000	
м	CSS	22T-27/65K8	1,273	54	24	75,000	
IVI		28T-27/65K8	2,037	68	30	60,000	
	FW	22T-27/65K8	1,257	53	24	75,000	
	FVV	28T-27/65K8	2,012	67	30	60,000	
	CS	22T-27/65K8	1,526	64	24	75,000	
	CS	28T-27/65K8	2,442	81	30	60,000	
W	CSS	22T-27/65K8	1,295	55	24	75,000	
VV	(35	28T-27/65K8	2,073	69	30	60,000	
	E147	22T-27/65K8	1,435	60	24	75,000	
	FW	28T-27/65K8	2,297	77	30	60,000	

Subject to change without notice. Visit www.kenall.com for ies files and additional information.

PERFORMANCE SCALING, BY LAMP COLOR

		27/65	K8			27/65K9				
CCT (K)	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	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	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01	86	25	83	98	1.01	96	96	91	101
5700	0.99	85	23	82	98	0.99	96	96	91	100
6500	0.99	84	16	82	96	0.99	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) luminaires or less.



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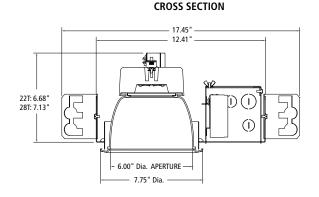
CDL SERIES

PERFORMANCE

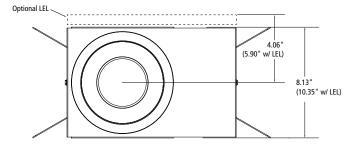
	CDL6-FF-22T-2	7/65K8-W-CS-T		CDL6-FF-22T-2	7/65K8-M-CS-T		
Wide Distribution Candela Curve	Initial center beam foot-candles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam foot-candles	Beam diameter (ft)	Medium Distribution Candela Curve	
319	35.4	7.2	5'	107.4	3.2	750	
638	28.0	7.5	6'	74.6	3.5	1499	
956	20.5	9.2	7'	54.8	4.0	2249	
	15.7	10.5	8'	42.0	4.6	2996	
	12.5	11.5	9'	33.2	5.3	$HT \setminus Y$	
	10.1	12.5	10'	26.9	5.8		
Spacing Criteria: 1.4	Delivered perform	Spacing Criteria: 0.62					
Beam Angle: 59° Beam diameter is where foot-candles drop to 50% of maximum						Beam Angle: 34°	

	CDL6-FF-28T-2	7/65K8-W-CS-T		CDL6-FF-28T-2	7/65K8-M-CS-T		
Wide Distribution Candela Curve	Initial center beam foot-candles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam foot-candles	Beam diameter (ft)	Medium Distribution Candela Curve	
572	59.5	6.9	5'	339.1	2.9	2119	
1143	52.8	7.0	6'	235.5	3.0	4238	
1715	38.9	8.2	7'	173.0	3.4	6357 7	
	29.7	9.4	8'	132.4	3.8		
	23.4	10.6	9'	104.7	4.4	$HT \setminus Y$	
	19.0	11.6	10'	84.8	4.8		
Spacing Criteria: 1.36	Delivered perform	it alternate CCTs	Spacing Criteria: 0.36				
Beam Angle: 54°		Beam Angle: 21°					

DIMENSIONAL DATA



BOTTOM VIEW



RECOMMENDED CEILING CUT-OUT NF Trims: 7.13" Dia. FF Trims: 7.38" Dia.



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