CDA10 10" High Output Downlight

Specification Grade High Output Downlight

Product Description

The CDA10 High-Output is a 10" downlight in NICOR's Paragon series of specification grade downlights. The CDA10 High-Output offers a wide variety of reflector and flange options to fit any architectural or commercial installation. Medium and wide optics are easily field installed to customize any space. The CDA10 line features Tri dimming on every fixture, allowing the luminaires to interface with TRIAC, ELV, and 0-10V dimmers down to 1% dimming (with select dimmers). The CDA10 High-Output light engines come in 70W or 100W packages, with color temperatures ranging from 2700K to 5000K at 80 CRI. The downlights are available with plaster frame, architectural frame, or remodel housings with J-boxes pre-installed.

Trim

The CDA10 reflectors are spun from high-grade aluminum. The deep reflectors provide 55° cutoff for excellent glare control. Self-flanged and flangeless options are available in white, specular clear, and haze finishes. Flanges are available in the trim color or can be painted white. Custom finishes and flange colors are available upon request.*

Optics

The CDA10 family features two high-output optics: medium and wide distributions. Optics are designed with diffused lenses for smooth, glare-free illumination. Each optic is simple to field install and change with NICOR's twist-lock system.

Light Engine

The CDA10 light engine consists of the high-efficiency driver and the LED light module. The module is built from die-cast and extruded aluminum to effectively and efficiently cool the LED for longer fixture life. Rated for 50,000 hours lifetime at L70. Lumen outputs range from 6000 to 9600 lumens. Color temperature options include 2700K, 3000K, 3500K, 4000K, and 5000K at 80CRI. Color variation on the LED is selected within a 3-step MacAdam ellipse for consistency across fixtures. The CDA10 light module features a quick-connect FMC whip for simple connection to the driver, allowing the light module to be stored in a safe environment while the luminaire housing and driver are installed at rough-in.

Electrical

Drivers in the series operate at 120-277VAC. The high-efficiency drivers feature Tri dimming, seamlessly interfacing with TRIAC & ELV dimmers on 120VAC input, and 0-10V systems on 120-277VAC (down to 1%). The CDA10 driver comes with two flexible metal conduit (FMC) whips installed: one end featuring line voltage and 0-10V dimmer wiring with a conduit connector for simple J-box installation, the other with a quick-connect for easy connection to the light module. CDA10 High-Output Class 2 drivers are available in 70W or 100W packages with a power factor of >.90.

Housings

CDA10 housings are made of 16ga. powder-coated and galvanized steel construction, making them attactive, rugged, and corrosion resistant. The architectural housing provides butterfly brackets adjustable for up to 2" ceiling thickness, while the plaster frame comes with adjustable, stamped bar hangers to fit a range of joist spacings between 14 %" and 25 %". The remodel frame is supplied with four arch clips for simple, robust through-ceiling remodel installation. All frames have wing springs to mount the reflector, a safety-wire hook for light engine retention, and junction box with six ½" knockouts, one %" knockout, and four non-metallic sheathed cable knockouts. Junction boxes are rated for eight 12AWG 90°C rated wires.

Installation

The CDA10's modular design is focused on ease of installation, allowing installers to rough-in the housing and driver while safely storing the trim and light engine until after ceiling work is complete. The trim twists onto the light engine with three keyholes and screws. The twist-lock optic installs tool-free for quick installation and change-out. Once the reflector and optic are installed, simply slide the light engine into the frame where it is retained by wing springs.

Warranty

The NICOR Paragon family comes with our 5-year limited system warranty standard.

Code Compliance

UL Listed for wet locations in covered ceilings only. Non-IC rated, insulation must be kept 3" away from the top and sides of the housing. Photometric testing completed in accordance with IES LM-79

* Contact factory for lead time and minimum order quantity.

Project

Catalog

Туре

Date



CDA10 High Output

70W, 100W 10" Downlight Architectural Remodel Plaster Frame





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Photometric Data

CDA10 High Output Medium Optic

3500K 70W 80CRI

Input Voltage (VAC)	120
System Level Power (W)	70.3
Delivered Lumens (Lm)	6843
System Efficacy (Lm/W)	97.3
Correlated Color Temp (K)	3500
Color Rendering Index (CRI)	80
Beam Angle	18.0
Spacing Criteria	1.01

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	4386	
	5848	

Adjustment Multipliers				
Trim Color	CCT	Wattage		
WH=104%	27K=92%	70=100%		
SC=105%	30K=98%	100=143%		
CZ=100%	35K=100%			
GL=99%	40K=104%			
BK=78%	50K=108%			

Zo Zone 0-30 0-40 0-60 0-90

Cone	of Light Tabula		:y Summary lle Power)	
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)	Angle	Mean CP
10	56.4	10.0	0	5635
15	25.0	14.8	5	5555
20	14.1	19.0	15	4963
25	9.0	26.0	25	4120
30	6.3	30.2	35	2649
35	4.6	34.0	45	1219
40	3.5	38.4	55	363
-+0	5.5	50.4	65	78
			75	22

Lumens	% of Luminaire
3787	55.3%
5437	79.4%
6732	98.4%
6843	100.0%

EM Mode*		
EMB	Estimated Lumens	
EMB45	794	
EMB80	1412	
EMB250	4415	

*Estimated lumen ouput is based on lumens per watt of the 3500K 70W test fixture and the wattage of the EM driver. For a better estimate of a specific part number, determine the fixture efficiency and use the formula: EM Lumens = Lm/W Fixutre x EM driver Wattage

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

85

90

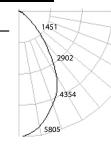
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CDA10 High Output Wide Optic

3500K 70W 80CRI

Input Voltage (VAC)	120
System Level Power (W)	70.5
Delivered Lumens (Lm)	6778
System Efficacy (Lm/W)	96.1
Correlated Color Temp (K)	3500
Color Rendering Index (CRI)	80
Beam Angle	18.0
Spacing Criteria	1.02



Adjustment Multipliers				
Trim Color	ССТ	Wattage		
WH=104%	27K=92%	70=100%		
SC=105%	30K=98%	100=143%		
CZ=100%	35K=100%			
GL=99%	40K=104%			
BK=78%	50K=108%			

Zone 0-30

0-40

0-60

0-90

Cone	of Light Tabula		sity Summary ndle Power)	
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)	Angle	
10	55.9	10.0	0	5592
15	24.9	14.8	5	5514
20	14.0	19.2	15	4927
25	9.0	26.4	25	4091
30	6.2	30.0	35	2622
35	4.6	34.0	45	1200
40	3.5	38.0	55	357
40	5.5	38.0	65	77
			75	22

Zonal Lumen Summary				EM Mode*
9	Lumens	% of Luminaire	EMB	Estimate
)	3760	55.5%	EMB45	
)	5392	79.6%	EMB80	1
)	6668	98.4%	EMB250	4
)	6778	100%		
			per watt of the	nen ouput is based 3500K 70W test fi EM driver. For a be

4373 ouput is based on lumens 00K 70W test fixture and the I driver. For a better estimate of a specific part number, determine the fixture

Estimated Lumens

787

1399

efficiency and use the formula: EM Lumens = Lm/W Fixutre x EM driver Wattage

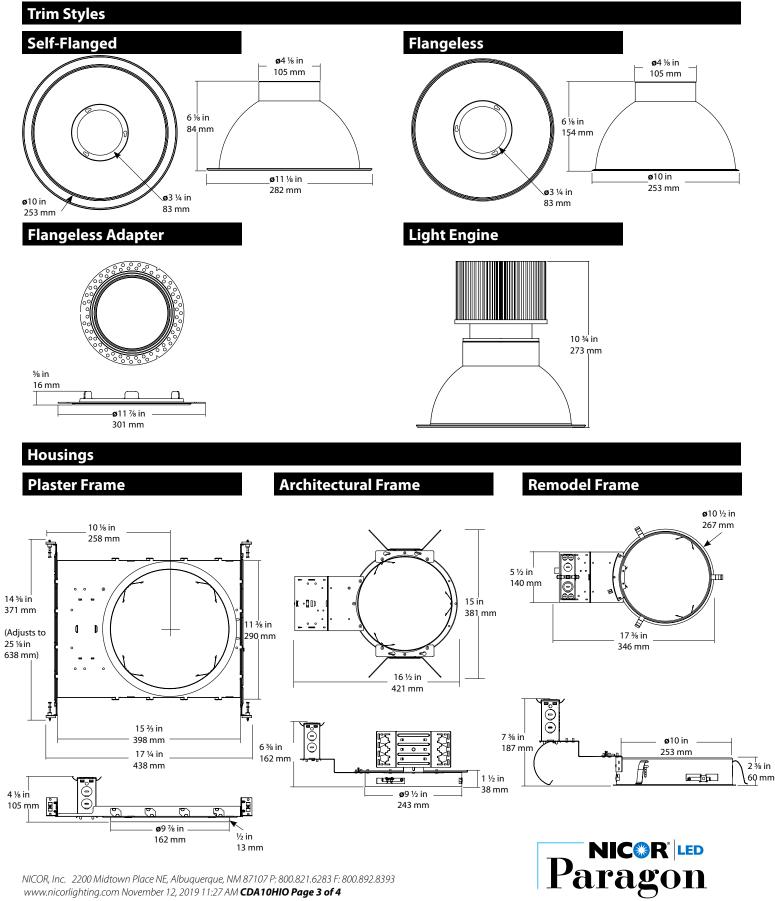
Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

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Ordering Information

For a complete unit, order all three components; housing, light engine, trim and optic as shown below.

Housing Example: CDA10H2R				
Series	Version Style			
CDA10HS	2	A (Architectural)		
		F (Plaster Frame)		
		R (Remodel)		

Light Engine					Example: CDALE2016U278
Series	Version	Wattage	Voltage	сст	CRI
CDALE	2	070 (70 Watts)	U (120-277VAC)	27 (2700 K)	8 (80 CRI)
		100 (100 Watts)		30 (3000 K)	9 (90 CRI)
				35 (3500 K)	
				40 (4000 K)	
				50 (5000 K)	

High O	utput	Trim and Optic	Example: CDA10HTR2H4HWHSF	
Series	Version	Optic	Reflector	Flange
CDA10HTR	2	H4H (High Output Medium)	WH (White)	SF (Self-flanged)
		H6H (High Output Wide)	SC (Specular Clear)	WH (White)
			CZ (Clear Haze)	FL (Flangeless)
			GL (Wheat)	CUST (Custom)
			BK (Black)	
			CM (Champagne)	
			CUST (Custom)	

Accessories

High Output Reflector					
Series	Version	Reflector	Flange		
CDA10HRFL	2	WH (White)	SF (Self-flanged)		
		SC (Specular Clear)	WH (White)		
		CZ (Clear Haze)	FL (Flangeless)		
		GL (Wheat)	CUST (Custom)		
		BK (Black)			
		CM (Champagne)			
		CUST (Custom)			

High Output Optics				
Series	Version	Style		
CDAHOP	2	H4 (High Output Medium)		
		H6 (High Output Wide)		

Flangeless Adapter Series

CDA10FLNGLESADAPT

