



22" Highbay 28400 Lm

DLC Listed



DLD22GZ

APPLICATION

22" Lumen Max series performance pendant for low, mid-bay and high-bay applications. Prismatic refractor provides horizontal and vertical distribution. Aluminum reflector designed for maximum downlight.

FEATURES

Domed Fixture Housing (DLD) features a contemporary design and is easy to maintain. Single-stage optical system for smooth light distribution. 80 CRI minimum. Consult factory for high CRI or special applications. LED module and driver designed for ease of maintenance and replacement. Optional safety cable. Variety of optical lenses, and mounting methods.

FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines. Variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion. Standard Matte White interior finish on reflectors.

ELECTRONICS

Light engine features high brightness white LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION

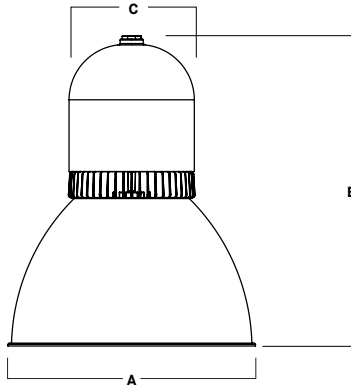
Housing constructed of spun and machined aluminum. Die-cast aluminum heat sink. Reflector made of spun .060" aluminum. Refractor made of cast UV stabilized acrylic.

CODE COMPLIANCE

BAA compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL standards No. 1598/8750.

DLC LISTING

Not all combinations are listed on the Design Lights Consortium® QPL. Refer to designlights.org/search/ for most up-to-date list.



A	B	C
22.4	28.1	11.3
569.0 mm	713.7 mm	287.0 mm

Dimensioned with **PRISMATIC SHADE**

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
DLD22GZ300L/AL22	28380	221	128

¹ Nominal Delivered Lumens at 35K DX AL22 MWI MW

SERIES	LUMENS ¹	CCT	DRIVER / DIMMING ²	SAFETY OPTIONS ³	MOUNTING ⁴	SHADE	ENCLOSURE OPTIONS	OPTIONS	FINISH ¹²	MOUNTING OPTION ¹⁴
DLD22GZ	300L 28400 Lm	35K 3500K 40K 4000K	DX 1%, 0-10V, 120V/277V	FS Fusing SC1 Safety Cable	<ul style="list-style-type: none"> ■ HM₁ Hang Straight ■ PM₁ Rigid Pendant ■ CD₁ Cord / Cable Mount ■ HC_{1/4} Hook & Cord ■ NM2_{1/2} 1/2" NPT Hub ■ NM3_{3/4} 3/4" NPT Hub 	PRISMATIC ■ DF22 22" Diffuse	ACCESSORIES	SC2 Safety Cable, Refractor to Door	<ul style="list-style-type: none"> ■ MW¹³ Matte White ■ MB¹³ Matte Black ■ PT¹³ Platinum Silver ■ CC Custom Color 	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
							<ul style="list-style-type: none"> DR22A¹⁵ 22" Spun Door BC22¹⁵ 22" Band Clamp RS22¹⁵ 22" Refractor Shroud 			
					EM. BATTERY OPTIONS	ALUMINUM	<ul style="list-style-type: none"> DR22AWAG^{15/16} 22" Door with Wire Guard WAG22¹⁵ 22" Wire Guard 	<ul style="list-style-type: none"> CNFR Conical Frosted Lens CN Conical Lens DL Drop Lens FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate 		
					<ul style="list-style-type: none"> EMRM 7W Remote EM EMEN 7W Remote with Enclosure 	AL22/MWI ¹	<ul style="list-style-type: none"> FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate None 			

DLC PREMIUM LISTED OPTIONS

EXAMPLE: DLD22GZ300L35KDX/HM36/AL22/MWI/MW

NOTES:

1 Nominal Delivered Lumens at 35K DX AL22 MWI MW 2 Contact Factory for Additional Options 3 See Product Options Page for Details 4 See Mounting Page for Details on Components 5 Specify Length in Inches; See Mounting Page for Available Lengths 6 Mounting Supplied by Others 7 12" Leads Unless Specified 8 Reflector Finished Matte White with Finish Color Out 9 Same Finish as Housing 10 Same Finish as Housing / For Use with Prismatic Shades Only 11 No Color 12 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 13 Standard Finishes 14 Field Cuttable Mounting Kit only Available with HM Stem



PROJECT: _____
 QUANTITY: _____ TYPE: _____



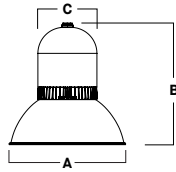
22" ALUMINUM & PRISMATIC

DLD SERIES / FIXTURE OPTIONS



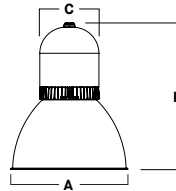
SERIES TYPE

ALUMINUM



A	B	C
22.4	23.3	11.3
569.0 mm	591.8 mm	287.0 mm

PRISMATIC



A	B	C
22.4	28.1	11.3
569.0 mm	713.7 mm	287.0 mm

STANDARD FINISHES

MW
MATTE WHITE



DLD22/AL22 HM MATTE WHITE

MB
MATTE BLACK



DLD22/AL22 HM MATTE BLACK

PT
PLATINUM SILVER



DLD22/AL22 HM PLATINUM SILVER

MOUNTING TYPES

HM / PM
HANG STRAIGHT / PENDANT



DLD22/AL22 SHOWN WITH PM

CD
CORD / CABLE MOUNT



DLD22/AL22 SHOWN WITH CD

HC
HOOK CORD



DLD22/AL22 SHOWN WITH HC

NM
NO MOUNT



DLD22/AL22 SHOWN WITH NM



MOUNTING & ACCESSORIES

SOME OPTIONS NOT AVAILABLE ON ALL FIXTURES. CONSULT SPECIFICATION SHEETS. SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION. NOTE: THIS IS TYPICAL OF RLM SPECIFICATION FOR MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.



ADDITIONS

FS - Fusing

Slow blow type fuse protects fixture against voltage surges. Factory installed.



SAFETY CABLE OPTIONS

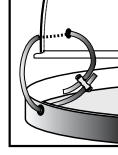
SC1 - Safety Cable

1/16" stainless steel safety cable for added support. Standard kit is 18" and double barrel locks are provided. Approved for California seismic requirements. Rated at 50 lbs.



SC2 - Safety Cable, Refractor to Door

1/16" Stainless steel cable holds door to fixture



OPTIONS

DOOR

DR22A-22" Spun Door
BC22-22" Band Clamp
RS22-22" Refractor Shroud

LENSES

CNFR-Conical Frosted Lens
CN-Conical Lens
DL-Drop Lens
FO-White Optical Acrylic
PP-Prismatic Polycarbonate
PC-Clear Polycarbonate



DR22A SHOWN WITH CN

DOOR & GUARD

DR22AWAG-22" Door with Wire Guard

LENSES

FO-White Optical Acrylic
PP-Prismatic Polycarbonate
PC-Clear Polycarbonate



DR22AWAG SHOWN WITH FO

GUARD OPTION

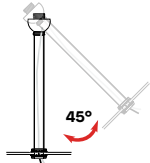
WAG22-22" Wire Guard



MOUNTING TYPES

HM* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

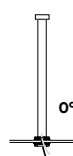


ORDER: **HM** (Length)
 SPECIFY LENGTH:
HM3 - 3" **HM24** - 24"
HM6 - 6" **HM36** - 36"
HM12 - 12" **HM48** - 48"
HM18 - 18" **HM72** - 72"
HMLC(XX)
 Custom Length
 (Specify in Inches)

TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.

PM* - Ridgid Pendant Mount

RIGID 5/8" OD STEM - 3/8" IP



ORDER: **PM** (Length)
 SPECIFY LENGTH:
PM3 - 3" **PM24** - 24"
PM6 - 6" **PM36** - 36"
PM12 - 12" **PM48** - 48"
PM18 - 18" **PM72** - 72"
PMLC(XX)
 Custom Length
 (Specify in Inches)

CD - Cord / Cable Mount

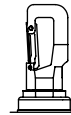
SJ CORD WITH 1/16 SS CABLE



ORDER: **CD** (Length)
 SPECIFY LENGTH:
CD36 - 36"
CD72 - 72"
CD144 - 144"
CDLC(XX)
 Custom Length
 (Specify in Inches)

HC - Hook & Cord

FOR INDEPENDENT MOUNTING



ORDER: **HC** (Length)
 SPECIFY LENGTH:
HC36 - 36"
HC72 - 72"
HC144 - 144"
HCLC(XX)
 Custom Length
 (Specify in Inches)

NM2 - 1/2" NPT Hub

NM3 - 3/4" NPT Hub
 FOR INDEPENDENT MOUNTING



ORDER: **NMX** (Length)
 SPECIFY LENGTH:
NM2(12) - 12" Leads are Standard
NM3(12) - 12" Leads are Standard
NMXLC(XX)
 Custom Length
 (Specify in Inches)

*MAXIMUM ONE PIECE STEM LENGTH IS 72".
 LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

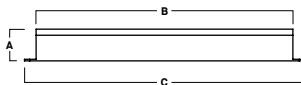
MOUNTING OPTION

FCHMA - Field Cuttable Mounting Kit For Hang Mount Fixtures



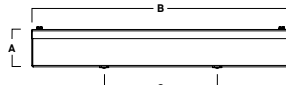
REMOTE EMERGENCY BATTERY OPTIONS

EMRM* - 7W Remote Emergency Battery (50' Max)



A	B	C
1.3	12.6	13.0

EMEN* - 7W Remote Emergency Battery with Enclosure (50' Max)



A	B	C
2.0	17.0	6.2

*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY



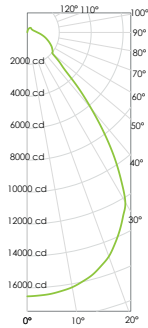
22" PRISMATIC

DLD SERIES / PHOTOMETRIC DATA



DLD22GZ 300L 35K DX DF22

CANDLEPOWER CURVE TEST SP-00959_2	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE		MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
							FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
	0.00° 16,534	0° - 10° 1,590 6%	10.0'	165 fc	22'	14'	106	0.92	127	1.32
	20.00° 14,934	0° - 20° 6,033 21%	12.0'	115 fc	26'	18'	67	0.58	80	0.84
	40.00° 6,240	0° - 30° 12,330 43%	14.0'	84 fc	32'	22'	57	0.49	47	0.49
	60.00° 1,755	0° - 40° 18,137 63%	16.0'	65 fc	Delivered Illuminance Rating: (DIR)		116 FC per W/Sq. Ft.		96 FC per W/Sq. Ft.	
	80.00° 944	0° - 60° 22,761 79%	20.0'	41 fc	4' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	90.00° 636	0° - 80° 25,464 89%	24.0'	29 fc						
	100.00° 477	0° - 90° 26,305 92%	28.0'	21 fc						
	110.00° 389	Total 28,655 100%	32.0'	16 fc						
	120.00° 352									
	140.00° 357									
	160.00° 249									
	180.00° 8									



Delivered Lumens: 28,655
Luminaire Watts: 221
LER: 129.66

CP at 0deg (Nadir): 16,534
CRI: 80

Lumen Multiplier: N/A, 300L only
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03



22" ALUMINUM

DLD SERIES / PHOTOMETRIC DATA



DLD22GZ 300L 35K DX AL22 MWI MW

CANDLEPOWER CURVE TEST SP-00959_3	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT									
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4					
	0.00°	13,235	0° - 10°	1,271	4%	10.0'	132 fc	22.7'	19 fc	22'	14'	109	0.92	127	1.32	
	5.00°	13,202	0° - 20°	4,807	17%	12.0'	92 fc	27.2'	13 fc	26'	18'	69	0.58	80	0.84	
	10.00°	13,035	0° - 30°	10,050	35%	14.0'	68 fc	31.7'	10 fc	32'	22'	58	0.49	47	0.49	
	15.00°	12,630	0° - 40°	16,444	58%	16.0'	52 fc	36.2'	7 fc	Delivered Illuminance Rating: (DIR)		118 FC per W/Sq. Ft. 96 FC per W/Sq. Ft.				
	20.00°	12,042	0° - 60°	25,864	91%	20.0'	33 fc	45.3'	5 fc	4' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 + Average Footcandles at 2.5' Above Floor						
	30.00°	10,887	0° - 80°	28,121	99%	24.0'	23 fc	54.4'	3 fc							
	40.00°	9,729	0° - 90°	28,379	100%	28.0'	17 fc	63.4'	2 fc							
	50.00°	5,859	Total	28,380	100%	32.0'	13 fc	72.5'	2 fc							
	60.00°	1,567														
	70.00°	1,088														
	80.00°	498														
	90.00°	0														

Delivered Lumens: 28,380
Luminaire Watts: 221
LER: 128.42

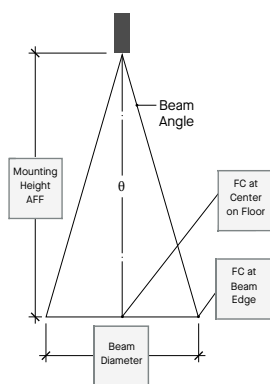
CP at 0deg (Nadir): 13,235
CRI: 80

Beam Angle: 97.11
Spacing Ratio: 1.23

Lumen Multiplier: N/A, 300L only
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.

$$FC_H = CP \times (\cos \theta) \div D^2$$

$$\text{Beam Diam.} = \frac{1}{2} \text{Beam Angle (Tan)} \times 2D$$

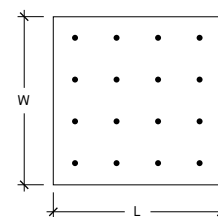
- CP Candela at 0° (Nadir)
- Cos θ Cosine of θ Angle
- D Distance (Mounting Height AFF)
- FC_H Footcandles, Horizontal
- Beam Angle Cone of light to 50% max. CP
- Beam Diam. Pattern of light at Beam Angle

MULTIPLE UNITS

Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 4' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.

Delivered Illuminance Rating (DIR®):
System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.

- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):
 $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$
- To estimate Sq. Ft. per fixture for a specific target FC:
 $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$



- To estimate Fixture Quantity in a room:
 $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$
- To estimate Watts/Sq. Ft.:
 $W/ \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

