

ZDL20-I

(includes former ZXL20i-CM model)

DOWNLIGHT | ZD20 Series | 3.00" dia.
 21-28W (2000-2700lm) | 120V-277V | HK LED, RGBW



Line Voltage Downlight - Standard: ZDL20-IR1SB-ABR

FEATURES

- Powerful 3" round, integrated LED, line-voltage downlight for architectural outdoor applications.
- 21W, 28W integrated HK LED delivering 2000–2700 lumens. 2200–4000K CCT, including specialty RGBW option.
- Wet Location Listed, IP65 Standard.
- Machined from solid aircraft-grade (6061-T6), corrosion-resistant aluminum, then anodized and powder coated to create a highly durable, marine-grade finish. Also available in solid brass or stainless steel.
- Modular component design with configurable optical beam angles and accessory lenses.
- Includes CM5 5" canopy plate. Adjustable angled, long, and short glare shields, along with additional canopy and surface mount options, are available.
- Every fixture tested end of line for water tightness and light quality.

SPECIFICATIONS

<p>Materials Solid billet 6061-T6 corrosion resistant aluminum with 304 stainless steel hardware.</p> <p>Finish Aluminum materials are first anodized and then powder coated for a robust, marine-grade finish. Stainless steel and brass models are provided with brushed surface.</p> <p>Hood and Glare Shield Non-weeping Hood Styles. Set screw or threaded Angled, Short, or Long Glare Shields. (See page 4 for details)</p>	<p>Voltage 120V–277V AC.</p> <p>Wattage 21 or 28W HK LED delivers 2000–2700 lumens.</p> <p>Light Engine CRI 90 Standard. Available in CRI 80 or CRI 95 upon request. Standard CCT options are 2700K, 3000K, 3500K, 4000K. Specialty 2200K, 2400K, 2500K, and RGBW options available. Consult factory for specialty LED specification details.</p> <p>Driver/Dimming Onboard, Integrated LED Driver, Phase Control @120V, 0V–10V @120V–277V, DALI or DMX control available, consult factory for details.</p>	<p>Optics Narrow (16°), Medium (26°), Wide (40°), and Extra Wide (60°) beam spread options available. Accepts up to 3 optical accessories (hexcel louver, optical lenses, dichroic color filters, etc.) Secured in place with metal snap ring.</p> <p>Mounting Includes CM5 5" Round Canopy Plate and (2X) 8-32 UNC machine screws to attach to a standard 30 or 3R recessed back box (provided by others).</p> <p>Listings ETL Listed for Wet Location, IP65 Standard. RoHS Compliant.</p>
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ORDERING GUIDE

EXAMPLE: ZDL20-IR1SB-ABL-120V21W-22N-GSA-LVR-CM5-ABL

MODEL	PHYSICAL OPTIONS				MATERIAL / FINISH		POWER		LIGHT	
ZDL20	IR1									
ZD20 Series 3.00" Downlight Integrated HK LED	IR1 Line Voltage, Round Light Integrated Driver				ABL Aluminum Black					
		STYLE	HOOD		ABR Aluminum Bronze	VOLTAGE	WATTAGE	CCT	OPTICS	
		S Standard	B B Style: No Weep Holes		AWH Aluminum White	120V 120V (Phase Control)	21W 21 Watt (2000lm)	22 2200K	N	Narrow (16°)
		F Finned	C C Style: Threaded, Weeping		AAC Aluminum Anodized Clear ¹	UNIV 120V-277V (0V-10V)	28W 28 Watt (2700lm)	24 2400K	M	Medium (26°)
					NBR Natural Brass ¹		SPW Specialty ²	25 2500K	W	Wide (40°)
					NCU Natural Copper ¹			27 2700K	E	Extra Wide (60°)
					NSS Natural Stainless Steel ¹			30 3000K	CC	Custom Optic
					CCC Custom Finish ¹			35 3500K		
								40 4000K		
								RG RGBW ²		

¹ For premium materials, please consult the factory for current lead times and pricing. A minimum order quantity of 10 units is required.

² For Specialty RG (RGBW LED), select SPW (Specialty) for Wattage. Consult factory for LED technical details before Specification or Order.

³ Mounts to 3R & 3O style junction boxes

OPTIONAL INSTALLED ACCESSORIES

GLARE SHIELD		OPTIC	MOUNTING (Most common listed, see Page 4 for additional options)	
GSA	B Glare Shield Angled	LVR	Hexcel Louver	
GSL	B Glare Shield Long	OSL	Overall Spread Lens	
GSS	B Glare Shield Short	LSL	Linear Spread Lens	
CGSA	C Glare Shield Angled	SOL	Solite Soft Focus	
CGSL	C Glare Shield Long	DCF	Dichroic Filter	
CGSS	C Glare Shield Short			
			CANOPY MOUNT	
			CM5-XXX	5" Round Canopy Plate (Included) ³
			SURFACE MOUNT	
			CB5.5-XXX	5.5" Round Surface Box

- Consult Accessory Spec Sheet for desired option code.
- XXX represents color option.

ADDITIONAL ACCESSORIES (Not installed at time of order)

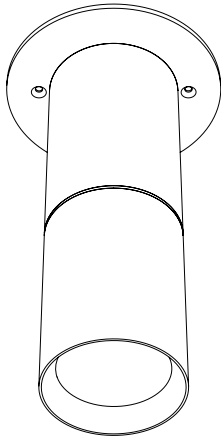
GLARE SHIELD ACCESSORIES

GSL-20-XXX	B Glare Shield Long
GSA-20-XXX	B Glare Shield Angled
GSS-20-XXX	B Glare Shield Short
CGSL-20-XXX	C Glare Shield Long
CGSA-20-XXX	C Glare Shield Angled
CGSS-20-XXX	C Glare Shield Short

OPTIC ACCESSORIES

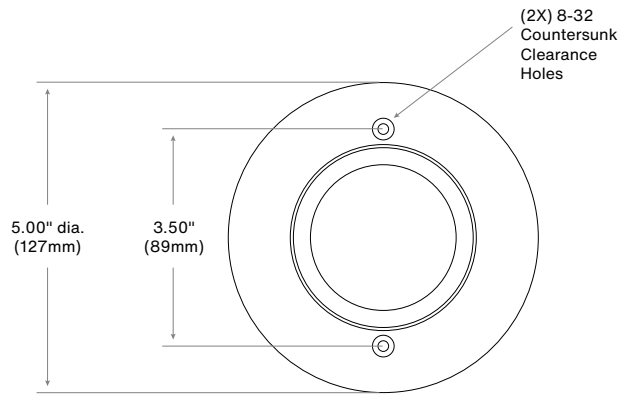
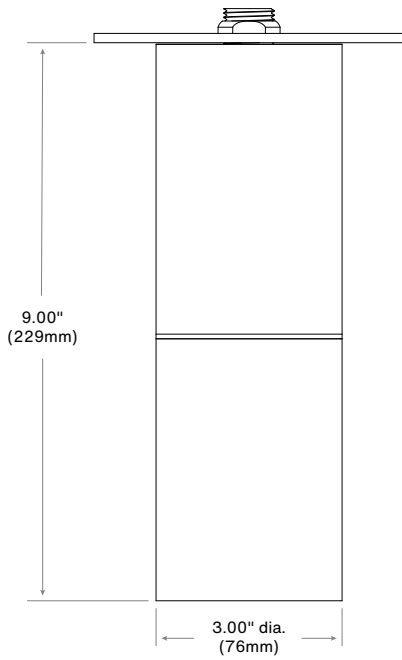
LVR-20	Hexcel Louver
OSL-20	Overall Spread Lens
LSL-20	Linear Spread Lens
SOL-20	Solite Soft Focus
DCF-20	Dichroic Filter
OPK-20	Optic Kit - Narrow, Medium, Wide, Extra Wide

PRODUCT DRAWINGS



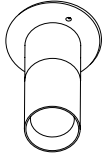
ZDL20-IR1SB
Standard

ZDL20-IR1SB



OPTIONS & ACCESSORIES

HOOD OPTIONS



B HOOD

Regressed lens for glare control. Suggested for downlighting and interior applications.



C HOOD

Designed for permanent use with a glare shield and innovative drainage design for water and debris. The machined threads enable ongoing glare shield adjustment, without impact to the paint surface.

OPTIONAL GLARE SHIELD

For use with B Hood, fastened with Set Screw



GSA
(angle)



GSL
(long)



GSS
(short)



For use with C Hood fastened with Locking Ring



CGSA
(angle)



CGSL
(long)

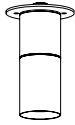


CGSS
(short)



INCLUDED MOUNTING ACCESSORIES

Canopy Mount:



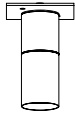
Fixture On CM5



CM5

OPTIONAL MOUNTING ACCESSORIES

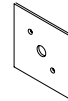
Canopy Mount:



Fixture On CM3

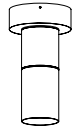


CM1



CM3

Surface Mount Box:



Fixture On CB5.5



CB4.0



CB4.0-SQ



CB5.1

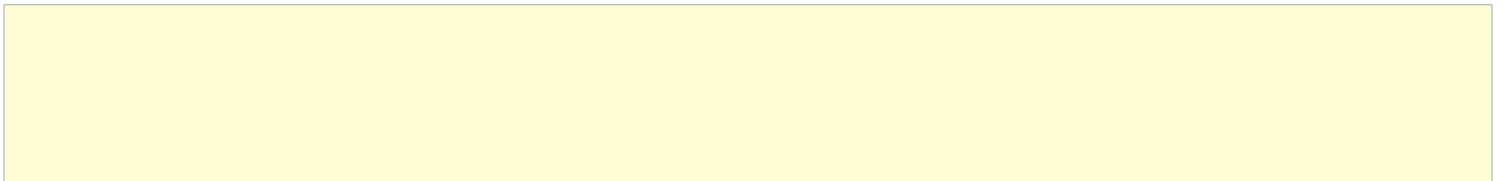


CB5.5



CB5.5-K/O

Notes:

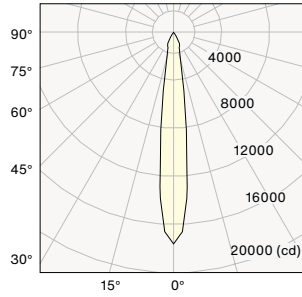


PHOTOMETRY & ENERGY DATA

ZDL20-I (Narrow)

Input Power	28.2W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	83
Beam Angle	16.1°
Max. Candlepower	17751cd
Delivered Lumens	2652lm
Efficacy	94lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

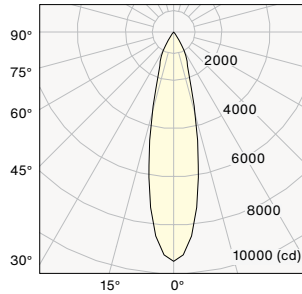
Center Beam (fc)	Beam Diameter	Distance
4438	0.6'	2.0'
1109	1.1'	4.0'
493	1.7'	6.0'
277	2.3'	8.0'
178	2.8'	10.0'

1/2 Beam Angle: 16.1°

ZDL20-I (Medium)

Input Power	28.0W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	83
Beam Angle	25.5°
Max. Candlepower	9513cd
Delivered Lumens	2702lm
Efficacy	97lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

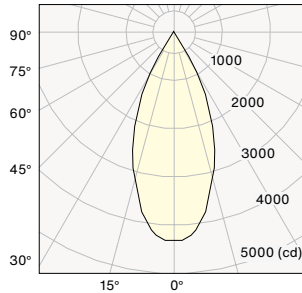
Center Beam (fc)	Beam Diameter	Distance
2378	0.9'	2.0'
595	1.8'	4.0'
264	2.7'	6.0'
149	3.6'	8.0'
95	4.5'	10.0'

1/2 Beam Angle: 25.5°

ZDL20-I (Wide)

Input Power	28.0W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	83
Beam Angle	44.2°
Max. Candlepower	4285cd
Delivered Lumens	2220lm
Efficacy	82lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

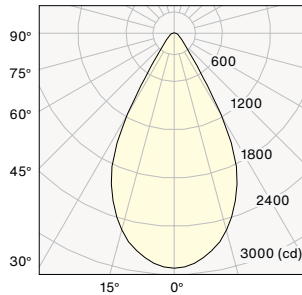
Center Beam (fc)	Beam Diameter	Distance
1071	2.3'	2.0'
268	4.6'	4.0'
119	6.9'	6.0'
67	9.3'	8.0'
43	11.6'	10.0'

1/2 Beam Angle: 44.2°

ZDL20-I (Extra Wide)

Input Power	29.0W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	83
Beam Angle	60.1°
Max. Candlepower	2926cd
Delivered Lumens	2667lm
Efficacy	92lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

Center Beam (fc)	Beam Diameter	Distance
731	2.3'	2.0'
183	4.6'	4.0'
81	6.9'	6.0'
46	9.3'	8.0'
29	11.6'	10.0'

1/2 Beam Angle: 60.1°

WATTAGE MULTIPLIER

Type	Wattage	Multiplier
N21	21 Watt	0.71
N28	28 Watt	1.00

CCT MULTIPLIER

Color Temp.	Multiplier
2700k	0.97
3000k	1.00
4000k	1.05
RGBW	N/A