

DEAD-FRONT DOWNLIGHT

Luminaires for Wet Location/Shower Applications

DFDL SERIES using Indigo-Clean Technology

PRODUCT FEATURES:

- » 6" sealed, recessed downlight with regressed or flush lens trim
- » Provides single-mode, on-demand environmental disinfection via LED light
- » Independent laboratory tested to kill harmful bacteria, including Staph*, such as MRSA**
- » Insulated trim section withstands 1000VAC dielectric breakdown
- » 1,250-1,950 delivered lumens with multiple distribution, reflector finish and lens options
- » 1% Dimming via 0-10V or DALI control



SPECIFICATIONS

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

ROUGH-IN FRAME: 18-gauge die-formed, corrosion-resistant steel and aluminum. Enclosed housing prevents accidental contact of trim section with potential electrical conductors within the ceiling space. 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 (8) 12AWG, 90°C conductors and feed-thru branch wiring.

TRIM SECTION: IP-rated housing section incorporates the heat sink, LED module, optics and lower trim. All components with potential contact to rough-in section are insulated to withstand a minimum 1000VAC dielectric breakdown. Configurable with an IP64-rated Regressed or 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. Anti-microbial finish standard on all exposed painted surfaces. See trim ordering information for available options.

OPTICAL: Diffused tempered glass upper lens. Available with various reflector distribution patterns and finishes. Flush lens trim options include a clear lens. See distribution and reflector finish ordering information for available options.

ELECTRICAL: Single, white disinfection mode. Serviceable white and 405nm Indigo LED array. Available 3200K, 3700K and 4300K color temperature with 3-step MacAdam variation allowance. Minimum 82 CRI standard. 120-277VAC and 347VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current drivers (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); 165µA maximum source current. Optional eldoLED ECOdrive DALI driver with 1-100% range.

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. EPA Est. No. 99283-WI-1.

* Per independent lab report #5GS-09517036476. Contact Kenall for a copy of this report.

**Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et. al, ID Week 2016.



ORDERING INFORMATION (EX: DFDL6-NF-5FW-22C-32K8-M-CSS-T-RID6-DV-DIM1-FS)

TRIM							ROUGH-IN				
Model	Trim Style	Trim Finish	Lamp Power	Lamp Color	Distribution	Reflector Finish	Flush Lens Type	Rough-In	Input Voltage	Driver Type	Options
DFDL6							RID6				
Trim Style							Rough-In				
R	Regressed Lens (IP64)						RID6	6" Dead-Front Rough-In			
NF	Flush Lens (Without Fasteners - IP64)										
FF	Flush Lens (With Fasteners - IP65)										
Trim Finish							Input Voltage				
DCFW	Die-Cast Aluminum in Flat White (R and NF Trim Style)						DV	120-277V, 50/60Hz			
SBR	Type 304 Stainless Steel with 4B Brushed Finish						120	120VAC, 60Hz			
5FW	Type 304 Stainless Steel in Flat White						277	277VAC, 60Hz			
XBR	Type 316 Stainless Steel with 4B Brushed Finish						347[▲]	347VAC, 60Hz			
XFW	Type 316 Stainless Steel in Flat White										
Lamp Power							Driver Type				
22C	22 Watt White & Indigo LED						DIM1	0-10V Dimming to 1% with Dim-to-Dark			
							DALI	DALI Dimming to 1% without Dim-to-Dark			
Lamp Color							Options				
32K8	3200K / 80 CRI min.						FS	Fuse & Holder			
37K8	3700K / 80 CRI min.						CCEA	CCEA Approved (specified voltage required)			
43K8	4300K / 80 CRI min.										

▲ N/A with DALI Driver Type. N/A with CCEA option



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PERFORMANCE

Trim Style	Optic			Lamp Power	Initial Delivered Lumens, By Lamp Color ¹			Power Consumption ²			Estd. L70 LED Life (hrs)	
	Distribution	Reflector Finish	Lens Type		32K8	37K8	43K8	Occupied (W)	LPD (W)	Unoccupied (W)		
R	M	CS	n/a	22C	1,737	1,737	1,850	24	20	0	75,000	
		CSS			1,456	1,456	1,551					
		FW			1,523	1,523	1,622					
	W	CS			1,822	1,822	1,940					
		CSS			1,603	1,603	1,707					
		FW			1,850	1,850	1,970					
NF/FF	M	CS	T	22C	1,357	1,357	1,445	24	20	0	75,000	
			G		1,389	1,389	1,479					
		CSS	T		1,274	1,274	1,357					
			G		1,304	1,304	1,388					
		FW	T		1,258	1,258	1,340					
			G		1,288	1,288	1,371					
	W	CS	T		22C	1,528	1,528	1,627	24	20	0	75,000
			G			1,563	1,563	1,665				
		CSS	T			1,297	1,297	1,381				
			G			1,327	1,327	1,413				
		FW	T			1,437	1,437	1,530				
			G			1,470	1,470	1,566				

¹ Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

² Lighting Power and Energy Calculations:

Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.

Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-2021. Power used toward germicidal disinfection can be removed for this calculation.

Use **Unoccupied** and **Occupied Power** for Energy calculations to determine the power consumed over time based on the use of the space.



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PERFORMANCE

Wide Distribution Candela Curve	DFDL6-R-22C-37K8-W-CS		Distance to illuminated plane (ft)	DFDL6-R-22C-37K8-M-CS		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	42.0	7.5	5'	134.6	3.3	
	33.7	7.8	6'	93.5	3.6	
	24.7	9.0	7'	68.7	4.2	
	18.9	10.5	8'	52.6	4.7	
	15.0	12.0	9'	41.6	5.4	
	12.1	13.0	10'	33.7	6.0	
Spacing Criteria: 1.42	foot-candle multipliers for 32K8(1.0), 43K8(1.1)				Spacing Criteria: 0.64	
Beam Angle: 60°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 31°	

Wide Distribution Candela Curve	DFDL6-R-38C-37K8-W-CS		Distance to illuminated plane (ft)	DFDL6-R-38C-37K8-M-CS		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	67.2	7.8	5'	215.5	3.3	
	53.9	8.0	6'	149.6	3.6	
	39.5	9.2	7'	109.9	4.2	
	30.3	10.7	8'	84.2	4.8	
	24.0	12.0	9'	66.5	5.4	
	19.4	13.0	10'	53.9	6.0	
Spacing Criteria: 1.42	foot-candle multipliers for 32K8(1.0), 43K8(1.1)				Spacing Criteria: 0.64	
Beam Angle: 60°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 31°	

Wide Distribution Candela Curve	DFDL6-FF-22C-37K8-W-CS-T		Distance to illuminated plane (ft)	DFDL6-FF-22C-37K8-M-CS-T		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	35.4	7.7	5'	107.5	3.2	
	28.0	7.8	6'	74.7	3.5	
	20.5	9.2	7'	54.9	4.0	
	15.7	10.5	8'	42.0	4.6	
	12.5	11.6	9'	33.2	5.2	
	10.1	13.0	10'	26.9	5.8	
Spacing Criteria: 1.4	foot-candle multipliers for 32K8(1.0), 43K8(1.1)				Spacing Criteria: 0.62	
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 34°	

Wide Distribution Candela Curve	DFDL6-FF-38C-37K8-W-CS-T		Distance to illuminated plane (ft)	DFDL6-FF-38C-37K8-M-CS-T		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	56.7	7.7	5'	172.1	3.2	
	44.8	7.8	6'	119.5	3.5	
	32.8	9.2	7'	87.8	4.0	
	25.1	10.5	8'	67.2	4.6	
	20.0	11.6	9'	53.1	5.2	
	16.2	13.0	10'	43.0	5.8	
Spacing Criteria: 1.4	foot-candle multipliers for 32K8(1.0), 43K8(1.1)				Spacing Criteria: 0.62	
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 34°	



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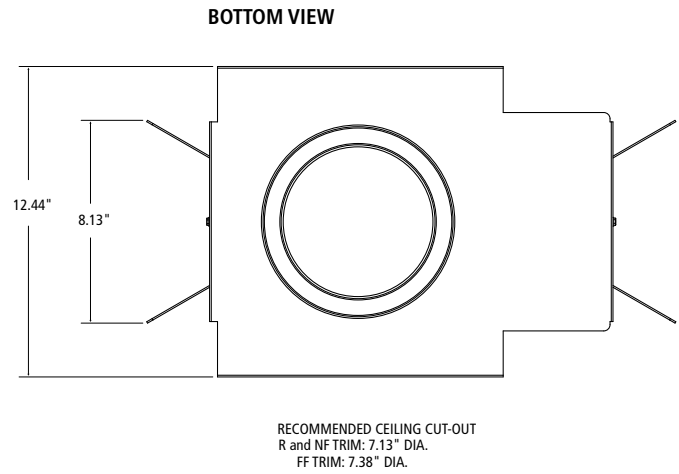
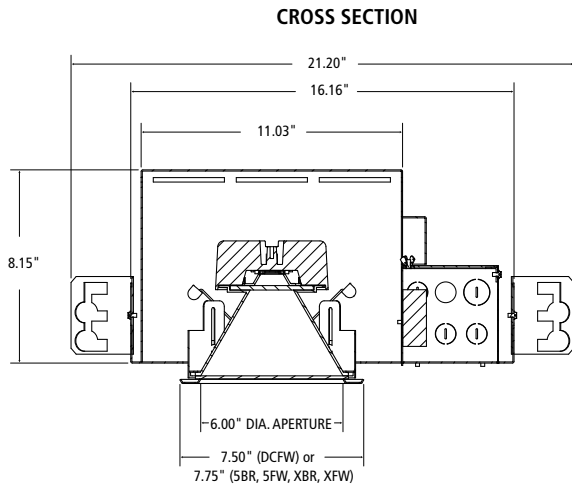
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DIMENSIONAL DATA



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