

LUXTRAN DOWNLIGHT

Luminaires for Transportation Applications

TDL SERIES

PRODUCT FEATURES:

- » 6" sealed, recessed downlight with flush lens trim
- » Corrosion-resistant frame and trim construction
- » Peace of Mind Guarantee® against breakage
- » 730 - 4,800 delivered lumens with multiple distribution, reflector finish and lens options
- » 1% Dimming via 0-10V or DALI-2 control



SPECIFICATIONS

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

ROUGH-IN FRAME: 18-gauge die-formed, Type 304 stainless steel construction. 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. 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 stainless steel lower trim. Lens trim secured with four (4) Torx® tamper-resistant, captive fasteners. See Trim Ordering Information for available options.

OPTICAL: Clear tempered glass upper lens. 1/8" clear impact-resistant acrylic or polycarbonate flush lens at ceiling trim. Continuous seal between lens and trim ring. Available with various reflector distribution patterns and finishes. See Ordering Information for available options.

ELECTRICAL: LED source available in multiple CCT and CRI combinations with a maximum 3-step MacAdam variation allowance. See Trim Ordering Information for available options. 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; 0.2mA maximum source current. Optional eldoLED ECOdrive DALI-2 (DT6) / LEDcode2 driver with 1-100%.

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. Peace of Mind Guarantee against breakage.

INSTALLATION: Suitable for ambient temperature temperatures of -30°C to +40°C.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratory for non-IC and Wet Location installations. IP65 rating per IEC60598.



ORDERING INFORMATION (EX: TDL6-FF-5BR-18L-40K8-W-CSS-G-RIT6-DV-DIM1)

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
TDL6	FF							RIT6		DIM1	
Trim Style								Rough-In			
FF Flush Lens (With Fasteners - IP65)								RIT6 6" Transportation Rough-In			
Trim Finish								Input Voltage			
5BR Type 304 Stainless Steel with 4B Brushed Finish								DV 120-277V, 50/60Hz			
XBR Type 316 Stainless Steel with 4B Brushed Finish								347* 347VAC, 60Hz			
5FW Type 304 Stainless Steel in Flat White								Driver Type			
XFW Type 316 Stainless Steel in Flat White								DIM1 0-10V Dimming to 1% with Dim-to-Dark			
Lamp Power								DALI DALI-2/LEDcode Dimming to 1% without Dim-to-Dark			
9L 9 Watt LED								Options			
18L 18 Watt LED								LEL Emergency Battery Backup with Remote Test Switch (0°C min. ambient)			
24L 24 Watt LED								FS Fuse & Holder			
32L 32 Watt LED								9500 Torx® Screwdriver			
43L▲ 43 Watt LED											
Lamp Color											
30K8 3000K / 80 CRI min.											
35K8 3500K / 80 CRI min.											
40K8 4000K / 80 CRI min.											
50K8 5000K / 80 CRI min.											
Distribution											
M Medium											
W Wide											
Reflector Finish											
FW Flat White											
CS Clear Specular											
CSS Clear Semi-Specular											
Flush Lens Type											
T 1/8" Clear High-Impact Acrylic											
G 1/8" Clear Polycarbonate											

* N/A with DALI or LEL option
▲ Must be installed with a minimum 24" on-center spacing, 12" from wall, and have 3" clearance above the Trim/Housing



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PERFORMANCE - MEDIUM DISTRIBUTION

Optic			Lamp Power	Initial Delivered Lumens, By Lamp Color				Efficacy (lm/W)	Input Power (W)	TM-21 Reported L90 (hrs)	TM-21 Reported L70 (hrs)
Distribution	Reflector Finish	Lens Type		30K8	35K8	40K8	50K8				
M	CS	T	9L	1,119	1,145	1,152	1,165	77 - 99	12	>55,000	>55,000
			18L	1,957	2,002	2,014	2,037	78 - 100	20	>55,000	>55,000
			24L	2,871	2,938	2,955	2,989	82 - 105	28	52,000	>55,000
			32L	3,611	3,695	3,717	3,759	78 - 100	38	52,000	>55,000
			43L	4,624	4,732	4,760	4,815	74 - 94	51	51,000	>55,000
		G	9L	1,079	1,104	1,111	1,123	75 - 96	12	>55,000	>55,000
			18L	1,887	1,931	1,942	1,965	75 - 97	20	>55,000	>55,000
			24L	2,769	2,833	2,850	2,883	79 - 101	28	52,000	>55,000
			32L	3,482	3,564	3,584	3,625	75 - 97	38	52,000	>55,000
			43L	4,459	4,564	4,590	4,643	71 - 91	51	51,000	>55,000
	CSS	T	9L	983	1,006	1,012	1,024	68 - 87	12	>55,000	>55,000
			18L	1,720	1,760	1,771	1,791	69 - 88	20	>55,000	>55,000
			24L	2,524	2,583	2,598	2,628	72 - 92	28	52,000	>55,000
			32L	3,174	3,248	3,267	3,305	69 - 88	38	52,000	>55,000
			43L	4,065	4,160	4,184	4,232	65 - 83	51	51,000	>55,000
		G	9L	948	971	976	987	66 - 84	12	>55,000	>55,000
			18L	1,659	1,697	1,707	1,727	66 - 85	20	>55,000	>55,000
			24L	2,434	2,491	2,505	2,534	69 - 89	28	52,000	>55,000
			32L	3,061	3,133	3,151	3,187	66 - 85	38	52,000	>55,000
			43L	3,920	4,012	4,035	4,081	62 - 80	51	51,000	>55,000
	FW	T	9L	1,016	1,040	1,046	1,058	70 - 90	12	>55,000	>55,000
			18L	1,777	1,819	1,830	1,851	71 - 91	20	>55,000	>55,000
			24L	2,608	2,669	2,685	2,715	74 - 95	28	52,000	>55,000
			32L	3,280	3,357	3,376	3,415	71 - 91	38	52,000	>55,000
43L			4,200	4,299	4,324	4,373	67 - 86	51	51,000	>55,000	
G		9L	980	1,003	1,009	1,020	68 - 87	12	>55,000	>55,000	
		18L	1,714	1,754	1,764	1,785	69 - 88	20	>55,000	>55,000	
		24L	2,515	2,574	2,589	2,618	72 - 92	28	52,000	>55,000	
		32L	3,163	3,237	3,256	3,293	68 - 88	38	52,000	>55,000	
		43L	4,051	4,145	4,170	4,217	65 - 83	51	51,000	>55,000	

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Optic			Lamp Power	Initial Delivered Lumens, By Lamp Color				Efficacy (lm/W)	Input Power (W)	TM-21 Reported L90 (hrs)	TM-21 Reported L70 (hrs)
Distribution	Reflector Finish	Lens Type		30K8	35K8	40K8	50K8				
W	CS	T	9L	1,103	1,129	1,135	1,148	76 - 98	12	>55,000	>55,000
			18L	1,929	1,974	1,986	2,008	77 - 99	20	>55,000	>55,000
			24L	2,830	2,896	2,913	2,947	81 - 104	28	52,000	>55,000
			32L	3,560	3,643	3,664	3,706	77 - 99	38	52,000	>55,000
			43L	4,559	4,665	4,693	4,746	73 - 93	51	51,000	>55,000
		G	9L	1,063	1,088	1,095	1,107	74 - 94	12	>55,000	>55,000
			18L	1,860	1,904	1,915	1,937	74 - 95	20	>55,000	>55,000
			24L	2,729	2,793	2,810	2,842	78 - 100	28	52,000	>55,000
			32L	3,433	3,513	3,534	3,574	74 - 95	38	52,000	>55,000
			43L	4,396	4,499	4,525	4,577	70 - 90	51	51,000	>55,000
	CSS	T	9L	1,045	1,070	1,076	1,088	72 - 93	12	>55,000	>55,000
			18L	1,828	1,871	1,882	1,903	73 - 94	20	>55,000	>55,000
			24L	2,682	2,745	2,761	2,793	76 - 98	28	52,000	>55,000
			32L	3,374	3,453	3,473	3,513	73 - 94	38	52,000	>55,000
			43L	4,320	4,422	4,448	4,498	69 - 88	51	51,000	>55,000
		G	9L	1,008	1,032	1,038	1,049	70 - 90	12	>55,000	>55,000
			18L	1,763	1,804	1,815	1,836	71 - 90	20	>55,000	>55,000
			24L	2,587	2,647	2,663	2,693	74 - 95	28	52,000	>55,000
			32L	3,253	3,329	3,349	3,387	70 - 90	38	52,000	>55,000
			43L	4,166	4,264	4,289	4,338	66 - 85	51	51,000	>55,000
	FW	T	9L	932	954	959	970	65 - 83	12	>55,000	>55,000
			18L	1,630	1,668	1,678	1,697	65 - 84	20	>55,000	>55,000
			24L	2,392	2,448	2,462	2,491	68 - 87	28	52,000	>55,000
			32L	3,008	3,079	3,097	3,132	65 - 84	38	52,000	>55,000
43L			3,853	3,943	3,966	4,011	61 - 79	51	51,000	>55,000	
G		9L	899	920	925	936	62 - 80	12	>55,000	>55,000	
		18L	1,572	1,609	1,618	1,637	63 - 81	20	>55,000	>55,000	
		24L	2,307	2,361	2,375	2,402	66 - 84	28	52,000	>55,000	
		32L	2,901	2,969	2,987	3,021	63 - 81	38	52,000	>55,000	
		43L	3,715	3,802	3,825	3,868	59 - 76	51	51,000	>55,000	

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PERFORMANCE

Wide Distribution Candela Curve	TDL6-FF-18L-40K8-W-CS-G		Distance to illuminated plane (ft)	TDL6-FF-18L-40K8-M-CS-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	54.5	5.3	5'	77.2	5.0	
	37.9	6.4	6'	53.6	6.0	
	27.8	7.5	7'	39.4	7.0	
	21.3	8.5	8'	30.2	8.0	
	16.8	9.6	9'	23.8	9.0	
	13.6	10.7	10'	19.3	10.0	
Spacing Criteria: 1.35	Foot-candle multipliers for 30K8 (0.97), 35K8 (0.99), 35K9 (0.82), 40K9 (0.83), 50K8 (1.01)				Spacing Criteria: 0.97	
Beam Angle: 56°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 53°	

Wide Distribution Candela Curve	TDL6-FF-18L-40K8-W-CSS-G		Distance to illuminated plane (ft)	TDL6-FF-18L-40K8-M-CSS-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	56.9	3.9	5'	105.0	4.5	
	39.5	4.6	6'	72.9	5.4	
	29.0	5.4	7'	53.5	6.3	
	22.2	6.2	8'	41.0	7.2	
	17.6	7.0	9'	32.4	8.1	
	14.2	7.7	10'	26.2	9.0	
Spacing Criteria: 1.28	Foot-candle multipliers for 30K8 (0.97), 35K8 (0.99), 35K9 (0.82), 40K9 (0.83), 50K8 (1.01)				Spacing Criteria: 0.72	
Beam Angle: 42°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 49°	

Wide Distribution Candela Curve	TDL6-FF-18L-40K8-W-FW-G		Distance to illuminated plane (ft)	TDL6-FF-18L-40K8-M-FW-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	55.7	6.3	5'	61.5	6.4	
	38.6	7.6	6'	42.7	7.7	
	28.4	8.8	7'	31.4	9.0	
	21.7	10.1	8'	24.0	10.3	
	17.2	11.4	9'	19.0	11.6	
	13.9	12.6	10'	15.4	12.9	
Spacing Criteria: 1.1	Foot-candle multipliers for 30K8 (0.97), 35K8 (0.99), 35K9 (0.82), 40K9 (0.83), 50K8 (1.01)				Spacing Criteria: 1.03	
Beam Angle: 65°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 66°	



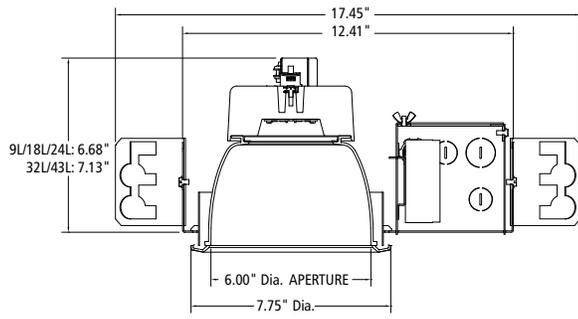
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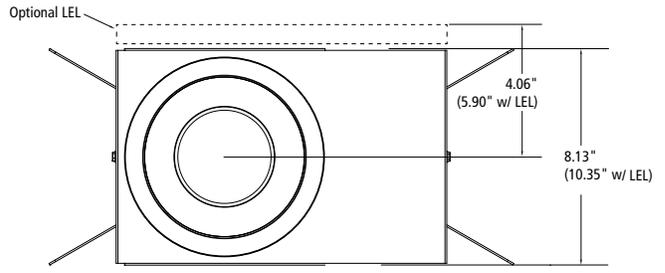
TDL SERIES

DIMENSIONAL DATA

CROSS SECTION



BOTTOM VIEW



RECOMMENDED CEILING CUT-OUT: 7.38" Dia.



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