

LED Area Lighting Luminaire SPECIFICATION (4000K@480V)



ORDER GUIDE

Group	TL	UUU	VV	WW	XX	Y	ZZ
Example	AL	090	5M	NW	UH	D	BZ

Group	Description
RL	Represents LED Area Lighting ;
UUU	Represents input power, which can be 090, 160, 245, or 275, e.g., 090= 90 W ;
VV	Represents lens type, distinguished by different models, which can be 2M, 3M, 4M, 4S, 5M, 5S, or others. Type II (Full Cutoff) 2S (Short); 2M (Medium)*; 2L (Long); Type III (Full Cutoff) 3S (Short); 3M (Medium)*; 3L (Long); Type IV (Full Cutoff) 4S (Short); 4M (Medium)*; 4L (Long); Type VS (Full Cutoff) 5S (Short); 5M (Medium)*; 5L (Long).
WW	Represents the nominal Correlated Color Temperature, which can be CW Cool White 5000 K (± 300 K); NW Neutral White 4000 K (± 300 K)*; WW Warm White 3000 K (± 300 K)⁺;
XX	Represents the input voltage: UL (120-277V), VL (120-240/277V), or UH (480V)* .
Y	Represents the dimming function, D (DALI)*, or P (Photocell).
ZZ	Represents the luminaire body color, which can be BK, BZ, GN, GY or WT BK Black (RAL 9017); BZ Bronze (RAL 8019)*; GN Green (RAL 6005); GY Gray (RAL 7038); WT White (RAL 9010).

* Featured products.

+ Warm-toned LED light sources (3000K or lower) must be selected to meet the International Dark-Sky Association dark sky requirements.

CERTIFICATIONS

SAFETY	Luminaires [UL 1598:2021 Ed.5]	Certified
SAFETY	Luminaires [CSA C22.2 No. 250.0:2021 Ed.5]	Certified
FCC	FCC Part 15 Subpart B; ANSI C63.4a-2017	Certified
DIELECTRIC WITHSTAND AND ELECTRICAL TRANSIENT IMMUNITY	C136.2-2015: Clause 6, Clause 7, 7.1, 7.2, 7.3, 7.4	Certified
INGRESS PROTECTION	Ingress protection	IP65
THD	Max. Total Harmonic Distortion (%)	20
IMPACT TEST	Resistance to external mechanical impact test	IK10
SALINE MIST TEST	Salt spray test to ISO 9227	1,000 hours
RoHS COMPLIANCE	European Directive 2011/65/EC	Certified

SPECIFICATION
AL-090-VV-NW-UH-D-BZ (One-Module)

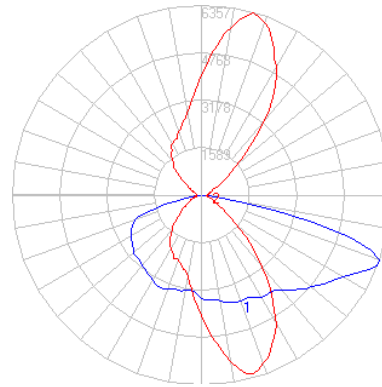
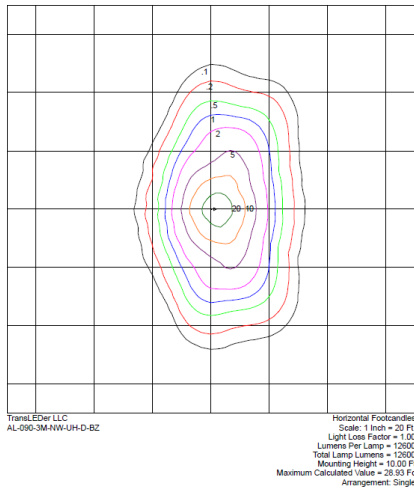
VOLTAGE	Nominal luminaire input voltage range	480 V
INPUT POWER	Nominal luminaire input power	90.0 W ‡
LUMINAIRE OUTPUT	Nominal luminaire luminous flux output	12600 lm ‡
EFFICACY	Nominal luminaire efficacy	140.0 lm/W ‡
POWER FACTOR	Min. power factor	0.99‡
LUMEN MAINTENANCE	Min. % of the initial output at 100,000 hours of operation	L95.3
• L90	Estimated time reaching 90% of the initial luminous flux	> 102,000 hours
• L80	Estimated time reaching 80% of the initial luminous flux	> 102,000 hours
• L70	Estimated time reaching 70% of the initial luminous flux	> 102,000 hours
LMF	Luminaire maintenance factor used for simulation	0.80
CHROMATICITY SHIFT	LED chromaticity shift at 7,000 hours of operation	0.0015 Δu'v'
NOMINAL CCT	Nominal correlated color temperature	4000 K
CRI	Color Rendering Index	> 70
WEIGHT	Max. luminaire weight	16.3 lbs.
DIMENSION	L x W x H	22.8" x 11.4" x 5.6"
SAIL AREA	Max. effective sail area	0.62 ft ²
TERMINAL BLOCK GAUGE	6-Way Screw Down Terminal Blocks Wire Gauges	#14 AWG - #6 AWG
PCR	Photoelectric Control Receptacle	Toolless Rotatable
OPTICAL DISTRIBUTION	☐ Type II ☒ Type III ☒ Type IV ☒ Type V	
MOUNTING SLIP FITTER	☒ Top-entry ☒ Side-entry ☒ Integral tilt (-10° to +10°)	
	Nominal Pole Size (NPS)	1.25"/2" NPS
VIBRATION	ANSI C136.31 ☐ Level 1 (normal) ☒ Level 2 (bridge/overpass)	
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation	-40 °C (-40 °F)
	Typical max. ambient temperature during operation	+40 °C (+104 °F)
SURGE PROTECTION DEVICE	ANSI C136.2 ☐ Basic (6kV/3kA) ☒ Enhanced (10kV/5kA) ☐ Elevated, (20kV/10kA)	
CONTROL INTERFACE	☐ None ☐ ANSI C136.10 3-pin ☐ ANSI C136.41 5-pin ☒ ANSI C136.41 7-pin	
LED DRIVER	☐ Not Dimmable ☐ Dimmable, 0-10V (IEC 60929) ☒ Dimmable DALI-2, D4i, NFC	

‡ Values shown are subject to ±5% tolerance.

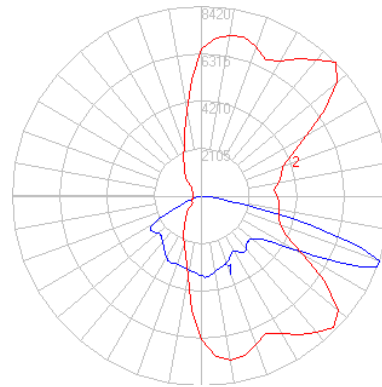
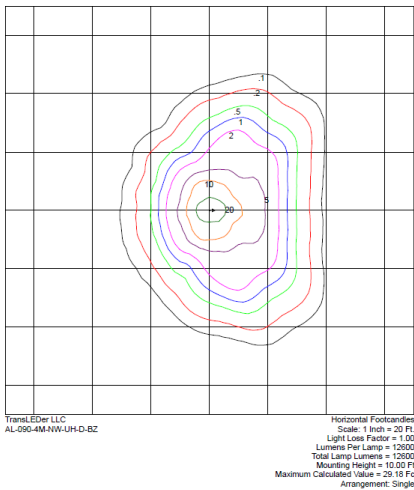


PHOTOMETRY

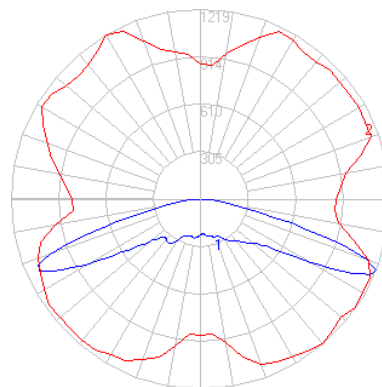
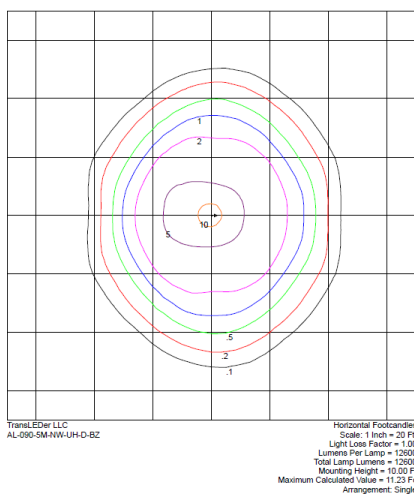
Type III Medium Full Cutoff



Type IV Medium Full Cutoff

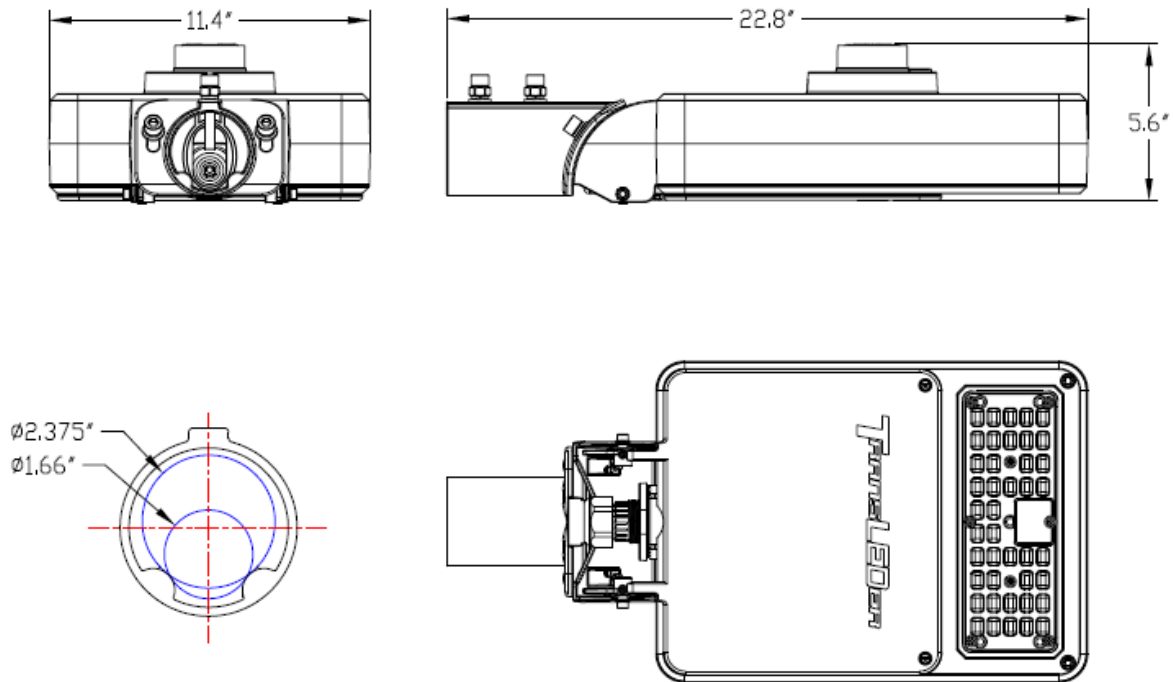


Type V Medium Full Cutoff



DIMENSIONS

1-Module Model



FEATURES

