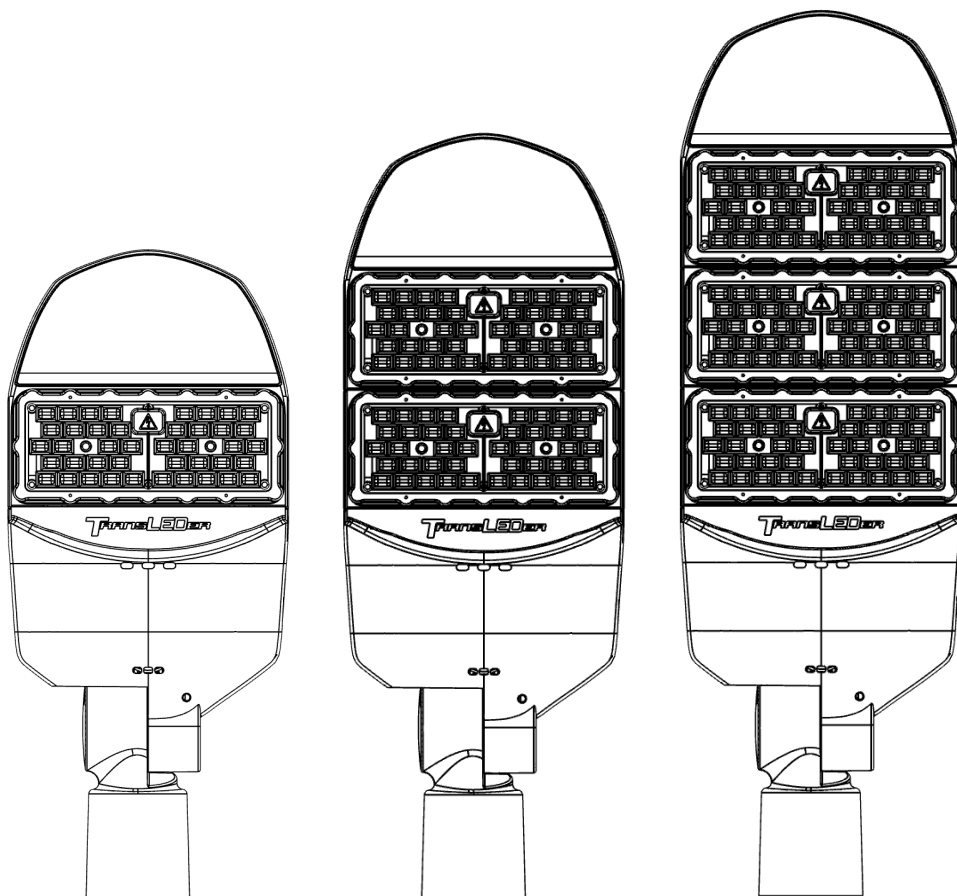


LED Roadway Lighting Luminaire SPECIFICATION



Important Notice

- Disconnect the power supply before installation or servicing to reduce the risk of electric shock.
- This luminaire must be installed following local electrical codes. If you are unfamiliar with these codes and requirements, consult a qualified electrician.
- If NEMA photo control is installed, refer to the NEMA Receptacle section for instructions.
- If mounting bolts are entirely removed in the field, they should be hand threaded (before use of power tools) to ensure proper thread engagement when re-installing. Failure to pre-start threads may result in cross-threading or stripping of the bolts during reinstallation.
- The luminaire is designed for outdoor use only
- The light source in this luminaire shall only be replaced by the manufacturer, his service agent, or a similarly qualified person.

ELECTRICAL RATINGS:

Model	Rated Voltage, Vac	Frequency Hz	LED Current, Max. A	Rated Wattage, W	Unit Type	Ingress Protection
TLXXX-YY-ZZ-UU-V-C	220-240	50	0.85	20-80	Side-entry Top-entry	IP65
TLXXX-YY-ZZ-UU-V-C	220-240	50	1.65	85-150		
TLXXX-YY-ZZ-UU-V-C	220-240	50	2.50	155-250		
TLXXX-YY-ZZ-UU-V-C	220-240	50	3.20	255-335		

ORDER GUIDE

Example	TL	045	V3	AS	CW	D	G
Group	TL	XXX	YY	ZZ	UU	V	C

Group	Description
TL	TransLEDer LED Roadway Lighting Luminaire Series.
XXX	Represents lamp wattage, may be any number, e.g. 045=45W .
YY	Represents Road Light categories, which can be P – Category P; V-Category V;
ZZ	Represents UWLR control, AS (Aeroscreen, UWLR=0%), NR (Non-Aeroscreen, UWLR>0%).
U	Represents colour temperature, which can be CW - Cool White; NW - Neutral White; WW - Warm White; MW – Mesopic.
V	Represents dimming function, which can be P – Photocell; D – DALI; Z – 0-10V.
C	Represents lamp colour, which can be G – Gray; B- Black; W – White.

Designation for **one-module** luminaire: "TL040-YY-ZZ-UU-V-T"

PERFORMANCE CRITERIA - LED LUMINAIRE			
VOLTAGE	Nominal luminaire input voltage range		220-240 V
INPUT POWER	Nominal luminaire input power		40 W
POWER FACTOR	Min. power factor		0.90
LUMEN MAINT.	Min. % of initial output at 102,000 hours operation (23 years)		95%
LMF	Min. Calculated Luminaire Maintenance Factor		0.80
CHROMATICITY SHIFT	Max. LED chromaticity shift at 6,000 hours operation		± 0.002 Duv
NOMINAL CCT	Rated correlated colour temperature		3985 ± 275 K
EFFICACY	Min. <i>maintained</i> luminaire efficacy		147 lm/W
FINISH	Luminaire housing finish colour		Grey *
WEIGHT	Max. luminaire weight		6.5 Kg
SAIL AREA	Max. effective sail area		0.057 m ²
OPTIC TYPE	☒ Type II	☒ Type III	☒ Type IV
MOUNTING ADAPTER	☒ Top-entry	☒ Side-entry	☒ Integral tilt (-15 to +15)
	Nominal pole size (NPS)		32-60 mm
VIBRATION	ANSI C136.31	☐ Level 1 (normal)	☒ Level 2 (bridge/overpass)
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation		-30 °C
	Typical max. ambient temperature during operation		+40 °C
	Typical max. Tc (case) temperature during operation		+75 °C
SURGE PROTECTION DEVICE	ANSI C136.2	☐ Basic (6kV / 3kA)	☒ Enhanced (10kV / 5kA)
CONTROL INTERFACE	☐ None	☐ ANSI C136.10, 3-pin	☒ ANSI C136.41, 7-pin
LED DRIVER	☐ Not dimmable	☐ Dimmable, 0-10V (IEC 60929)	☒ Dimmable, DALI (IEC 62386)

CERTIFICATIONS - LED LUMINAIRE		
SAFETY	AS/NZS 60598.1, AS/NZS 60598.2.3	CB+SAA Certified
EMC IMMUNITY	EN 61547, EN 55015, AS/NZS CISRP 15	EMC+CTICK Certified
HARMONIX CURRENT EMISSION	EN 61000.3.2, EN 61000.3, EN 61547	EMC+CTICK 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	1000 hours
PHOTOBIO. SAFETY	EN 62471	Exempt group
PHOTOBIO. SAFETY	EN 62778	Risk group 1
RoHS COMPLIANCE	European Directive 2011/65/EC	SGS Certified

MATERIAL - LED LUMINAIRE		
OPTICAL MATERIAL	Optical lens material	PMMA
HOUSING MATERIAL	Cast Aluminium Alloy	A360
COPPER CONTENT	Max. Copper content (%)	0.60
PAINT	Self-cleaning and Anti-Graffiti Polyester coating	AXALTA

Designation for one-module luminaire: "TL055-YY-ZZ-UU-V-T"

PERFORMANCE CRITERIA - LED LUMINAIRE

VOLTAGE	Nominal luminaire input voltage range	220-240 V
INPUT POWER	Nominal luminaire input power	55 W
POWER FACTOR	Min. power factor	0.90
LUMEN MAINT.	Min. % of initial output at 102,000 hours of operation (23 years)	95%
LMF	Min. Calculated Luminaire Maintenance Factor	0.80
CHROMATICITY SHIFT	Max. LED chromaticity shift at 6,000 hours of operation	± 0.002 Duv
NOMINAL CCT	Rated correlated colour temperature	3985 ± 275 K
EFFICACY	Min. <i>maintained</i> luminaire efficacy	140 lm/W
FINISH	Luminaire housing finish colour	Grey *
WEIGHT	Max. luminaire weight	6.5 Kg
SAIL AREA	Max. effective sail area	0.057 m ²
OPTIC TYPE	☒ Type II ☒ Type III ☒ Type IV ☒ Type V	
MOUNTING ADAPTER	☒ Top-entry ☒ Side-entry ☒ Integral tilt (-15 to +15)	
	Nominal pole size (NPS)	32-60 mm
VIBRATION	ANSI C136.31 ☐ Level 1 (normal)	☒ Level 2 (bridge/overpass)
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation	-30 °C
	Typical max. ambient temperature during operation	+40 °C
	Typical max. Tc (case) temperature during operation	+75 °C
SURGE PROTECTION DEVICE	ANSI C136.2 ☐ Basic (6kV / 3kA) ☐ Enhanced (10kV / 5kA)	☒ Elevated, (20kV / 10kA)
CONTROL INTERFACE	☐ None ☐ ANSI C136.10, 3-pin ☐ ANSI C136.10 5-pin	☒ ANSI C136.41, 7-pin
LED DRIVER	☐ Not dimmable ☐ Dimmable, 0-10V (IEC 60929)	☒ Dimmable, DALI (IEC 62386)

CERTIFICATIONS - LED LUMINAIRE

SAFETY	AS/NZS 60598.1, AS/NZS 60598.2.3	CB+SAA Certified
EMC IMMUNITY	EN 61547, EN 55015, AS/NZS CISRP 15	EMC+CTICK Certified
HARMONIX CURRENT EMISSION	EN 61000.3.2, EN 61000.3, EN 61547	EMC+CTICK 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	1000 hours
PHOTOBIO. SAFETY	EN 62471	Exempt group
PHOTOBIO. SAFETY	EN 62778	Risk group 1
RoHS COMPLIANCE	European Directive 2011/65/EC	SGS Certified

MATERIAL - LED LUMINAIRE

OPTICAL MATERIAL	Optical lens material	PMMA
HOUSING MATERIAL	Cast Aluminium Alloy	A360
COPPER CONTENT	Max. Copper content (%)	0.60
PAINT	Self-cleaning and Anti-Graffiti Polyester coating	AXALTA

Designation for one-module luminaire: "TL075-YY-ZZ-UU-V-T"

PERFORMANCE CRITERIA - LED LUMINAIRE

VOLTAGE	Nominal luminaire input voltage range	220-240 V
INPUT POWER	Nominal luminaire input power	75 W
POWER FACTOR	Min. power factor	0.90
LUMEN MAINT.	Min. % of initial output at 102,000 hours of operation (23 years)	95%
LMF	Min. Calculated Luminaire Maintenance Factor	0.80
CHROMATICITY SHIFT	Max. LED chromaticity shift at 6,000 hours of operation	± 0.002 Duv
NOMINAL CCT	Rated correlated colour temperature	3985 ± 275 K
EFFICACY	Min. <i>maintained</i> luminaire efficacy	130 lm/W
FINISH	Luminaire housing finish colour	Grey *
WEIGHT	Max. luminaire weight	6.5 Kg
SAIL AREA	Max. effective sail area	0.057 m ²
OPTIC TYPE	☒ Type II ☒ Type III ☒ Type IV ☒ Type V	
MOUNTING ADAPTER	☒ Top-entry ☒ Side-entry ☒ Integral tilt (-15 to +15)	
	Nominal pole size (NPS)	32-60 mm
VIBRATION	ANSI C136.31 ☐ Level 1 (normal)	☒ Level 2 (bridge/overpass)
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation	-30 °C
	Typical max. ambient temperature during operation	+40 °C
	Typical max. Tc (case) temperature during operation	+75 °C
SURGE PROTECTION DEVICE	ANSI C136.2 ☐ Basic (6kV / 3kA) ☐ Enhanced (10kV / 5kA)	☒ Elevated, (20kV / 10kA)
CONTROL INTERFACE	☐ None ☐ ANSI C136.10, 3-pin ☐ ANSI C136.10 5-pin	☒ ANSI C136.41, 7-pin
LED DRIVER	☐ Not dimmable ☐ Dimmable, 0-10V (IEC 60929)	☒ Dimmable, DALI (IEC 62386)

CERTIFICATIONS - LED LUMINAIRE

SAFETY	AS/NZS 60598.1, AS/NZS 60598.2.3	CB+SAA Certified
EMC IMMUNITY	EN 61547, EN 55015, AS/NZS CISRP 15	EMC+CTICK Certified
HARMONIX CURRENT EMISSION	EN 61000.3.2, EN 61000.3, EN 61547	EMC+CTICK 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	1000 hours
PHOTOBIO. SAFETY	EN 62471	Exempt group
PHOTOBIO. SAFETY	EN 62778	Risk group 1
RoHS COMPLIANCE	European Directive 2011/65/EC	SGS Certified

MATERIAL - LED LUMINAIRE

OPTICAL MATERIAL	Optical lens material	PMMA
HOUSING MATERIAL	Cast Aluminium Alloy	A360
COPPER CONTENT	Max. Copper content (%)	0.60
PAINT	Self-cleaning and Anti-Graffiti Polyester coating	AXALTA

Designation for one-module luminaire: "TL080-YY-ZZ-UU-V-T"

PERFORMANCE CRITERIA - LED LUMINAIRE

VOLTAGE	Nominal luminaire input voltage range	220-240 V
INPUT POWER	Nominal luminaire input power	80 W
POWER FACTOR	Min. power factor	0.90
LUMEN MAINT.	Min. % of initial output at 102,000 hours of operation (23 years)	95%
LMF	Min. Calculated Luminaire Maintenance Factor	0.80
CHROMATICITY SHIFT	Max. LED chromaticity shift at 6,000 hours of operation	± 0.002 Duv
NOMINAL CCT	Rated correlated colour temperature	3985 ± 275 K
EFFICACY	Min. <i>maintained</i> luminaire efficacy	125 lm/W
FINISH	Luminaire housing finish colour	Grey *
WEIGHT	Max. luminaire weight	6.5 Kg
SAIL AREA	Max. effective sail area	0.057 m ²
OPTIC TYPE	☒ Type II ☒ Type III ☒ Type IV ☒ Type V	
MOUNTING ADAPTER	☒ Top-entry ☒ Side-entry ☒ Integral tilt (-15 to +15)	
	Nominal pole size (NPS)	32-60 mm
VIBRATION	ANSI C136.31 ☐ Level 1 (normal)	☒ Level 2 (bridge/overpass)
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation	-30 °C
	Typical max. ambient temperature during operation	+40 °C
	Typical max. Tc (case) temperature during operation	+75 °C
SURGE PROTECTION DEVICE	ANSI C136.2 ☐ Basic (6kV / 3kA) ☐ Enhanced (10kV / 5kA)	☒ Elevated, (20kV / 10kA)
CONTROL INTERFACE	☐ None ☐ ANSI C136.10, 3-pin ☐ ANSI C136.10 5-pin	☒ ANSI C136.41, 7-pin
LED DRIVER	☐ Not dimmable ☐ Dimmable, 0-10V (IEC 60929)	☒ Dimmable, DALI (IEC 62386)

CERTIFICATIONS - LED LUMINAIRE

SAFETY	AS/NZS 60598.1, AS/NZS 60598.2.3	CB+SAA Certified
EMC IMMUNITY	EN 61547, EN 55015, AS/NZS CISRP 15	EMC+CTICK Certified
HARMONIX CURRENT EMISSION	EN 61000.3.2, EN 61000.3, EN 61547	EMC+CTICK 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	1000 hours
PHOTOBIO. SAFETY	EN 62471	Exempt group
PHOTOBIO. SAFETY	EN 62778	Risk group 1
RoHS COMPLIANCE	European Directive 2011/65/EC	SGS Certified

MATERIAL - LED LUMINAIRE

OPTICAL MATERIAL	Optical lens material	PMMA
HOUSING MATERIAL	Cast Aluminium Alloy	A360
COPPER CONTENT	Max. Copper content (%)	0.60
PAINT	Self-cleaning and Anti-Graffiti Polyester coating	AXALTA

Designation for two-module luminaire: "TL150-YY-ZZ-UU-V-T"

PERFORMANCE CRITERIA - LED LUMINAIRE

VOLTAGE	Nominal luminaire input voltage range	220-240 V
INPUT POWER	Nominal luminaire input power	150 W
POWER FACTOR	Min. power factor	0.90
LUMEN MAINT.	Min. % of initial output at 102,000 hours of operation (23 years)	95%
LMF	Min. Calculated Luminaire Maintenance Factor	0.80
CHROMATICITY SHIFT	Max. LED chromaticity shift at 6,000 hours of operation	± 0.002 Duv
NOMINAL CCT	Rated correlated colour temperature	3985 ± 275 K
EFFICACY	Min. <i>maintained</i> luminaire efficacy	130 lm/W
FINISH	Luminaire housing finish colour	Grey *
WEIGHT	Max. luminaire weight	8.0 Kg
SAIL AREA	Max. effective sail area	0.068 m ²
OPTIC TYPE	☒ Type II ☒ Type III ☒ Type IV ☒ Type V	
MOUNTING ADAPTER	☒ Top-entry ☒ Side-entry ☒ Integral tilt (-15 to +15)	
	Nominal pole size (NPS)	32-60 mm
VIBRATION	ANSI C136.31 ☐ Level 1 (normal)	☒ Level 2 (bridge/overpass)
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation	-30 °C
	Typical max. ambient temperature during operation	+40 °C
	Typical max. Tc (case) temperature during operation	+75 °C
SURGE PROTECTION DEVICE	ANSI C136.2 ☐ Basic (6kV / 3kA) ☐ Enhanced (10kV / 5kA)	☒ Elevated, (20kV / 10kA)
CONTROL INTERFACE	☐ None ☐ ANSI C136.10, 3-pin ☐ ANSI C136.10 5-pin	☒ ANSI C136.41, 7-pin
LED DRIVER	☐ Not dimmable ☐ Dimmable, 0-10V (IEC 60929)	☒ Dimmable, DALI (IEC 62386)

CERTIFICATIONS - LED LUMINAIRE

SAFETY	AS/NZS 60598.1, AS/NZS 60598.2.3	CB+SAA Certified
EMC IMMUNITY	EN 61547, EN 55015, AS/NZS CISRP 15	EMC+CTICK Certified
HARMONIX CURRENT EMISSION	EN 61000.3.2, EN 61000.3, EN 61547	EMC+CTICK 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	1000 hours
PHOTOBIO. SAFETY	EN 62471	Exempt group
PHOTOBIO. SAFETY	EN 62778	Risk group 1
RoHS COMPLIANCE	European Directive 2011/65/EC	SGS Certified

MATERIAL - LED LUMINAIRE

OPTICAL MATERIAL	Optical lens material	PMMA
HOUSING MATERIAL	Cast Aluminium Alloy	A360
COPPER CONTENT	Max. Copper content (%)	0.60
PAINT	Self-cleaning and Anti-Graffiti Polyester coating	AXALTA

Designation for three-module luminaire: "TL255-YY-ZZ-UU-V-T"

PERFORMANCE CRITERIA - LED LUMINAIRE

VOLTAGE	Nominal luminaire input voltage range	220-240 V
INPUT POWER	Nominal luminaire input power	255 W
POWER FACTOR	Min. power factor	0.90
LUMEN MAINT.	Min. % of initial output at 102,000 of hours operation (23 years)	95%
LMF	Min. Calculated Luminaire Maintenance Factor	0.80
CHROMATICITY SHIFT	Max. LED chromaticity shift at 6,000 hours of operation	± 0.002 Duv
NOMINAL CCT	Rated correlated colour temperature	3985 ± 275 K
EFFICACY	Min. <i>maintained</i> luminaire efficacy	130 lm/W
FINISH	Luminaire housing finish colour	Grey *
WEIGHT	Max. luminaire weight	9.5 Kg
SAIL AREA	Max. effective sail area	0.079 m ²
OPTIC TYPE	☒ Type II ☒ Type III ☒ Type IV ☒ Type V	
MOUNTING ADAPTER	☒ Top-entry ☒ Side-entry ☒ Integral tilt (-15 to +15)	
	Nominal pole size (NPS)	32-60 mm
VIBRATION	ANSI C136.31 ☐ Level 1 (normal)	☒ Level 2 (bridge/overpass)
THERMAL ENVIRONMENT	Typical min. ambient temperature during operation	-30 °C
	Typical max. ambient temperature during operation	+60 °C
	Typical max. Tc (case) temperature during operation	+75 °C
SURGE PROTECTION DEVICE	ANSI C136.2 ☐ Basic (6kV / 3kA) ☐ Enhanced (10kV / 5kA)	☒ Elevated, (20kV / 10kA)
CONTROL INTERFACE	☐ None ☐ ANSI C136.10, 3-pin ☐ ANSI C136.10 5-pin	☒ ANSI C136.41, 7-pin
LED DRIVER	☐ Not dimmable ☐ Dimmable, 0-10V (IEC 60929)	☒ Dimmable, DALI (IEC 62386)

CERTIFICATIONS - LED LUMINAIRE

SAFETY	AS/NZS 60598.1, AS/NZS 60598.2.3	CB+SAA Certified
EMC IMMUNITY	EN 61547, EN 55015, AS/NZS CISRP 15	EMC+CTICK Certified
HARMONIX CURRENT EMISSION	EN 61000.3.2, EN 61000.3, EN 61547	EMC+CTICK 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	1000 hours
PHOTOBIO. SAFETY	EN 62471	Exempt group
PHOTOBIO. SAFETY	EN 62778	Risk group 1
RoHS COMPLIANCE	European Directive 2011/65/EC	SGS Certified

MATERIAL - LED LUMINAIRE

OPTICAL MATERIAL	Optical lens material	PMMA
HOUSING MATERIAL	Cast Aluminium Alloy	A360
COPPER CONTENT	Max. Copper content (%)	0.60
PAINT	Self-cleaning and Anti-Graffiti Polyester coating	AXALTA

Weight and Dimension

Model	Module Quantity	Weight (kg)	Dimension (L x W x H) (mm)	Sailing Area (m ²)
TL020-YY-ZZ-UU-V-C / TL080-YY-ZZ-UU-V-C	1	6.50	625 x 270 x 155	0.057
TL085-YY-ZZ-UU-V-C / TL150-YY-ZZ-UU-V-C	2	8.00	740 x 270 x 155	0.068
TL155-YY-ZZ-UU-V-C / TL250-YY-ZZ-UU-V-C	3	9.50	855 x 270 x 155	0.079

Remark:

- * Different colour temperature is available upon request.
- ** For other pole diameters, a different mounting adaptor is required.

