

Auckland Transport

Roadway Lighting LED Approved Luminaire List - AT-LALL

NOTE:

1. The luminaire wattage must not exceed the maximum values stated in the Approved List as the luminaire has not been reviewed for the increased heat that would result from a higher wattage. The design Maintenance Factor* and projected luminaire life could be affected. Any optic from the luminaire family may be used, subject to satisfying the TDM and specific project requirements.

*Note that the AT Maintenance Factor calculation utilises a different methodology to that outlined in AS/NZS1158.

2. AS/NZS1158.4 defines the lighting design requirements for un-signalised pedestrian crossings. The following are currently the only luminaire models on the AT-LALL list that have suitable optics;

- AEC – Italo 1 & 2
- CU Phosco – P863 & P862
- OrangeTek – IGNIS 1
- Schreder – TECEO 1

3. Ensure the weight of the luminaire is considered in regard to lighting column design. Standard lighting columns installed prior to 2012 were typically designed for a maximum luminaire weight of 9kg up to 8m high and 12kg if taller. Current approved columns for new installations are designed for a maximum luminaire weight of 9kg if 6m or 8m high, 13kg if 10m high and 15kg if 12m or 14m high.

Manufacturer	Luminaire Model	Maximum System Wattage (W)	Colour Temperature (K)	Mass (kg)	Supplier	Notes
AEC	A2 LED	71	3950	7.5	Techlight Ltd	
	COMPASS 1	104	4000	10.5		
	COMPASS 2	150	4000	13.5		
	Italo 1 (Luxeon MX version)	146	4000	6.8		1. Suitable pedestrian optic options available
	Italo 2 (Luxeon MX version)	293	4000	12		1. Suitable pedestrian optic options available
	Italo 3 (Luxeon MX version)	329	4000	19		

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

	I-TRON ZERO OC6 & OC8	80	4000	4.5		
	I-TRON 1 OC6 & OC8	150	4000	7.0		
	MOD 2.0 PRO	102	3800	9		1. Designed as wall mount
	MOD 2.0 URBAN	102	3800	11		1. No integral tilt
Betacom	GL520	33	3750	3.2	Betacom (1988) Ltd	
Cree	LEDway XIL 'E'	279	4000	4.8-10.9	Advanced Lighting Technologies	
	Edge Round/Square Series E	66	4000	10-22		
	XSP1 Version C	67	4000	10.5		
	XSP1 HO Series D IPD H	28	4000	10.5		
	XSP2 Version C	116	4000	15		
	XSP2 HO Series D IPD I	124	4000	15		
CU Phosco Lighting	P852K	40	4000	5	3E Energy Ltd	1. Must include 'Citel MLP1-230L-P/20K' SPD option
	P863	100	4000	7.5/8.2		1. Suitable pedestrian optic options available 2. Must include 'Citel MLP1-230L-P/20K' SPD option
	P862	168	4000	8.5/9.7		1. <i>Suitable pedestrian optic options available</i> 2. Must include 'Citel MLP1-230L-P/20K' SPD option
	P861	342	4000	14.5		1. Must include 'Citel MLP1-230L-P/20K' SPD option
	P860	520	4000	19.5		1. Must include 'Citel MLP1-230L-P/20K' SPD option
DLEDS	Stratos N 6M	35	4100	5.5	Globelink Ltd	

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

DW Windsor	Kirium Pro 2	116	4000	9.8	Modular & Partners	
	Kirium Pro Midi	60	3900	5.1		
GLG	SastaLED - Size 1 SL99234 (Small)	20	4100	5.3	Aesthetics Lighting Solutions	1. Must be supplied with flex & plug (AT spec) 2. Must be supplied with Setfuse Model SD10C277LM SPD
	SastaLED - Size 2 SL99234 (Large)	150	4100	9		1. Must be supplied with flex & plug (AT spec) 2. Must be supplied with Setfuse Model SD10C277LM SPD
iGuzzini	Wow Mini (620x307)	79	4000	9	ECC	
	Wow Small (758x415)	127	4000	12		
	Wow Large (807x505)	156	4000	16.4		
	Woody Street LED	51	4000	10.5		1. NEMA socket not available
Kim Lighting	Warp 9 LED	130	4200	7.7-15.9	Spectratech Lighting Ltd	1. Integral tilt not available
KTL	Shard B28 – F	28	4000	8.5	Brilliant Ltd	
LED Roadway Lighting (LRL)	NXT-C	41	4000	5.4	Energy Light Ltd	
	NXT-C	48	4000	5.4		
	NXT-S	80	4000	8.2		
	NXT-M	158	4000	11.8		
LeTehnika	Luxtella S12XPL-20AT	19.5	3900	4	ECOLight	1. Only approved as unpainted 2. Must be supplied with flex and plug (AT spec)
NB Smartcities	GYRO	107	4000	9	NB Smartcities NZ	
	RAZO-M	118	3800	7.9		

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

	RAZO-S	22	4000	5.7		
Neri S.P.A.	Light Antares MNAN1L	26	4000	10.5	Targetti Lighting	
NVC Lighting Technology Corporation	Tasman-S	21	4000	6.6	NVC Lighting New Zealand Ltd	
	Tasman-L	124	4000	8.1		
	Tasman-SO	64	4000	6.6		
	Tasman-LO	123	4000	8.1		
Orangetek	ARIALED	300	4000	6.5-14	Orangetek	1. Internal tilt range with adapters: -5 to +10 degrees 2. External adapters for -10/-15 not approved
	IGNIS 1	141	4000	7.9/8.2		1. Suitable pedestrian optic options available
	IGNIS 2	219	4000	12.3/13.2		1. Must be supplied with Littelfuse LSP10GI SPD
	TerraLED Mini (Cree XPG2 LED)	36	4000	5		
	TerraLED Mini (Cree XPG3 LED)	36	4000	5		
	TerraLED Mini (Nichia LED)	36	4000	5		
	TerraLED Mini (PMMA Lens + Osram LED)	36	4000	5		
Panhost	TransLEDer-A-1 (Body: A [small]) (Version: 1: No visor, Cree XPG2)	23	3800	6.5	Transleder Lighting Ltd	Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
	TransLEDer-B-1 (Body: B [medium]) (Version: 1: No visor, Cree XPG2)	160	3800	8		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

	TransLEDer-B-2 (Body: B [medium]) (Version: 2: PMMA visor, Cree XPL)	160	3800	8		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
	TransLEDer-A-3 (Body: A [small]) (Version: 3: Glass visor, Cree XPG3)	40	3800	6.5		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
	TransLEDer-B-3 (Body: B [medium]) (Version: 3: Glass visor, Cree XPG3)	160	3800	8		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
	TransLEDer-A-4 (Body: A [small]) (Version: 4: PMMA visor, Cree XPG3)	82	3800	6.5		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
	TransLEDer-B-4 (Body: B [medium]) (Version: 4: PMMA visor, Cree XPG3)	160	3800	8		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
	TransLEDer-C-4 (Body: C [large]) (Version: 4: PMMA visor, Cree XPG3)	132	3800	9		Must include either; 1. Flex & plug (AT spec), or 2. IP67 fused terminal block
Schreder	TECEO 1 (Cree XPG2 version)	35	4100	9.6	Betacom (1988) Ltd	1. Suitable pedestrian optic options available
	TECEO 1 (Cree XP-L version)	150	4000	9.6		1. Suitable pedestrian optic options available
	TECEO 1 (Cree XPG3 version)	104	4000	9.5		1. Suitable pedestrian optic options available
	TECEO 2 (Cree XPG2 version)	279	4100	17.5		
	TECEO 2 (Cree XPG3 version)	276	4000	15/17.5		
Signify	Luma 1 80	135	3900	11	IBEX International Ltd	

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

	Roadcharm BRP 471	135	4200	8.6	Signify New Zealand Ltd	1. Main earth cable must be 2.5 sq mm 2. SPD must be 15kV/15kA
	Roadcharm BRP 472	260	4200	13.8		1. Main earth cable must be 2.5 sq mm 2. SPD must be 15kV/15kA
	Roadgrace BRP 711	26	4000	6.5		
	Roadgrace BRP 712	120	4000	7.4		
	Stela+Gen 2	36	4000	7	IBEX International Ltd	
Simon Electric Co.	Nath-S	25	3900	7.3	Lumenworks Ltd	
Vizulo	Mini Martin	93.3	4000	5.8	IBEX International Ltd	1. Flex & plug (AT spec) is available as an option, but not mandatory (Gear door is restrained but not hinged)
	Mini Stork	168	4000	8.6		
Vulkan	V3630-0.1Cu	140.1	4000	9.5	O-Light Ltd	1. Must be supplied with flex and plug (AT spec) 2. Only approved as unpainted
We-ef	VFL 530	55	4080	6.6	MHL	1. Integral tilt not available 2. Must be supplied with flex and plug (AT spec)
	VFL 540 (Cree XP-L version)	219	4000	8.5		1. Integral tilt not available 2. Must be supplied with flex and plug (AT spec)
ZGSM (Hangzhou ZGSM Technology Co. Ltd)	CRUX PLUS [NB-SL-CRUX-P]	25	3900	8.5	NB SmartCities NZ Ltd	1. Must be supplied with external variable tilt adapter for -10 / -5 / 0 / +5 degree steps. Slot in curved section 40mm x 19mm minimum

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

	CRUX PLUS [NB-SL-CRUX-P]	135	3900	8.5		1. Must be supplied with external variable tilt adapter for -10 / -5 / 0 / +5 degree steps. Slot in curved section 40mm x 19mm minimum
--	-----------------------------	-----	------	-----	--	--

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.

Revision Table

Version	Date	Changes
1-8	NA	Internal versions
9	12/01/17	Original public issue
10	NA	Not issued
11	18/01/17	
12	07/04/17	
13	11/05/17	
14	23/05/17	
15	8/06/17	
16	28/06/17	
17	11/09/17	Rev table added. Schreder Teceo 1 XPL added. Vizulo Mini Stork V-Cat added.
18	28/11/17	Note 5 & mass column added. Cree XSP1-D, Tasman, Transleder-Vcat, Roadgrace-optics clarified, Vizulo-updates & Crux Plus added
19	20/02/18	Ignis added. Mini-martin & stork updated. Transleder, Tasman & Crux Plus updated.
20	03/05/18	Mini Martin 12 LED added. Itron Zero V cat & Itron 1 V cat added. Transleder-Vi added (Visor version) added. GL520 & Teceo1 entries amended. General notes altered.
21	26/08/18	Lextar changed to Orangetek. Ignis - AV12 & AV3 added, NV1 amended to AV1. NB SmartCities name adjusted. LRL NXT-C amended.
22	30/10/18	Gerard Sastaled added. Ignis 1 Optic Z1 amended. General notes amended.
23	05/06/19	Note 1 adjusted. AEC LED-in deleted. CU Phosco added. AEC Italo, Gerard SastaLED, Orangetek IGNIS, Panhost Transleder & Schreder Teceo amended. Optic tags removed.
24	24/10/19	Category column deleted & related entries merged. AEC entries corrected. CU Phosco P852K, DW Windsor Kirium Pro 2, Neri Antares, NVC Tasman-Osram, Panhost Transleder v4 & Signify Roadcharm added. Schreder TECEO XPG3 added. Orangetek IGNIS efficacy updated. Philips name changed to Signify. ETI name changed to NVC. Gerard & Sylvania names changed to GLG. Various minor adjustments.
25	01/11/19	StreetLED deleted. Various minor adjustments.
26	27/11/19	AEC MOD 2 & NBSC RAZO M added. Orangetek TerraLED Mini wattages raised.
27	17/04/20	AEC COMPASS 1 & 2 and NBSC GYRO & RAZO-S added.
28	04/07/20	DWW Kirium Pro Midi added.

The luminaire's performance and data will be assessed from time to time which could result in the need to reassess the luminaire for inclusion on the approved list. Acceptance onto the AT approved list does not in any way imply that AT will purchase the luminaire. Purchase of the luminaire will be subject to suitable commercial terms and each specific site will be evaluated to select the most appropriate luminaire.