

# M30 Accepted Luminaires

30 January 2019

## General Notes

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As at 30 January 2019, the following luminaires have been assessed by the NZ Transport Agency using M30 criteria and granted acceptance for installation.

- a) The Light Emitting Diode (LED) luminaires listed below have been assessed by the Transport Agency and are accepted for use as road lighting luminaires on the New Zealand network. A detailed design to AS/NZS1158 is required to determine the best suited luminaire for the particular application.
- b) The luminaire specified in design documentation shall be on the Accepted List, but where other design parameters are required to be met for a Standards compliant design, such as at an intersection or LATM, then alternative optics that are not included on the Accepted List, but that are from the same luminaire family, may be used to achieve compliance subject to prior acceptance by the client.
- c) The preferred value of CCT for road lighting is 4000K (neutral white). Consideration may be given to the use of 3000K (warm white) nominal CCT in areas of special environmental consideration (such as Dark Skies reserves) or high pedestrian use, but only where vehicular movements and speeds have been managed to mitigate the potential conflicts between cars/trucks and pedestrians/cyclists.

For 3000K luminaire options, the following criteria must be met:

- i. the correlated colour temperature must be 3045K  $\pm$ 175K (in accordance with SA/SNZ TS 1158.6)
  - ii. the luminaire efficacy must be not less than 8% lower than the 4000K luminaire variant of the luminaire
  - iii. the colour rendition index (CRI) must be at least 70
  - iv. the luminaire must meet all other M30 acceptance criteria
- d) All luminaires listed above must be supplied with a CMS compatible driver and provision for an LPC (Light Point Controller or Luminaire Controller) via a capped socket (e.g. 7 contact NEMA ANSI) or hard wired (mini/micro aerial or plugged conduit entry) as required by M30 Section 16.3. All required internal wiring and external modifications (e.g. hole cutting) must be completed ex-supplier.

## General Notes (continued)

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- e) Ensure the weight of the luminaire is considered in regard to lighting column design. Luminaires over 12kg require specific structural design of the lighting column and outreach with written confirmation that there are no adverse effects to the performance and life of the lighting column and outreach through the use of the nominated luminaire. Refer also NZ Transport Agency Specification M26.
- f) Ensure reference is made to the luminaire specific notes following this table.

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	CATEGORY OR INTENDED USE	SUPPLIER
AEC	A2 LED	71	3950K	7.5	P only	Techlight Ltd
	Italo 1 (STA1 & 7SS optics)	37.5	4000K	6.8	P only	
	Italo 1	103	4000K	6.8	V only	
	Italo 2	154	4000K	12	V only	
	Italo 3	289	4000K	19	V only	
	I-Tron Zero OC6 STA (4.49-2M & 4.31-3M)	20	4000K	4.5	P only	
	I-Tron Zero OC8 (STU-W optic only)	80	4000K	4.5	V only	
	I-Tron 1 OC8 (STU-W, STU-M & STU-S optics only)	150	4000K	7.0	V only	
Betacom	GL520 (7012, 7022, 7032 & 7052 optics only)	33	4000K	3.2	P only	Betacom (1988) Ltd
Cree	LEDway XIL 02 Series A	70	4000K	4.8	P and V	Advanced Lighting Technologies
	LEDway XIL 04 Series A	134	4000K	7.3	V only	
	LEDway XIL 07 Series A	203	4000K	9.5	V only	
	LEDway XIL 10 Series A	263	4000K	10.9	V only	
	EDGE Square Series A	261	4000K	10 - 22	P only	
	EDGE Round Series A	202	4000K	17 - 20	P only	

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	CATEGORY OR INTENDED USE	SUPPLIER
Cree (cont'd)	XSP1 Series C (3ME optic only)	28	4000K	10.5	P only	Advanced Lighting Technologies
	XSP1 HO Series D IPD H (3ME optic only)	28	4000K	10.5	P only	
	XSP1 Series C (3ME optic only)	67	4000K	10.5	V4 only	
	XSP2 Series C (2SH & 275 optics only)	124	4000K	15	V3 & V4 only	
	XSP2 HO Series D IPD I (2SH & 275 optics only)	74	4000K	15	V3 & V4 only	
	XSP2 HO Series D IPD I (2LG optic only)	116	4000K	15	V1 only	
DLEDS	Stratos N 6M (W23A optic only)	35	4100K	5.5	P only	Globelink Ltd
ETI Solid State Lighting (Zuhai)	Tasman (Optics: 02, 05)	21	4000K	6.6	P only	NVC Lighting New Zealand Ltd
	Tasman (Optics: 03, 04)	74	4000K	8.1	V3 & V4 only	
	Tasman (Optic: 01)	124	4000K	8.1	V1 & V2 only	

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	CATEGORY OR INTENDED USE	SUPPLIER
Gerard	SastaLED – Size 1 SL99234 (Small) (P3 & P4 optics) [See Notes 6 & 8]	20	4100K	5.3	P only	Aesthetics Lighting Solutions
	SastaLED – Size 2 SL99234 (Large) (V cat optic) [See Notes 6 & 8]	150	4100K	9	V only	
	StreetLED Aero TMC1 (aeroscreen only)	26.7	4000K	7	P only	
	StreetLED Aero TMC2 (aeroscreen only)	26.7	4000K	7	P only	
iGuzzini	Wow Mini (620 x 307)	79	4000K	9	P only	ECC Lighting Ltd
	Wow Small (758 x 415)	127	4000K	12	P and V	
	Wow Large (807 x 505)	156	4000K	16.4	V only	
	Woody LED Street [See Note 4]	51	4000K	10.5	P only	
KIM Lighting	Warp 9 LED [See Note 2]	130	4200K	7.7 - 15.9	P and V	Spectratech Lighting Ltd
KTL	Shard B28 – F (LL17056 optic)	28	4000K	8.5	P only	Brilliant Ltd

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	CATEGORY OR INTENDED USE	SUPPLIER
LRL (LED Roadway Lighting)	Roadway NXT-C - 4AH	48	4000K	5.4	P and V	Energy Light Ltd
	Roadway NXT-S (2ES optic not for Cat P)	80	4000K	8.2	P and V	
	Roadway NXT-M	158	4000K	11.8	V only	
Le Tehnika	Luxtella S12XPL-20AT [See Notes 5 & 6]	19.5	3900K	4	P only	ECOLight
OrangeTek	Arialed (NV4, NX3, & NX4 optics)	300	4000K	6.5 - 14	V only	OrangeTek Ltd
	Ignis 1 (AV1 optic)	77	4000K	8.2	V3 & V4 only	
	Ignis 1 (AV12 optic)	138	4000K	8.2	V1 & V2 only	
	Ignis 1 (Z1L & Z1R optics)	33.2	4000K	8.2	Pedestrian Crossings	
	Ignis 2 (AV3 optic) [See note 8]	153	4000K	13.2	V1 & V2 only	
	Terraed Mini (MX1 & WX1 optics, Cree XPG2 LEDs)	36	4000	5	P only	
	Terraed Mini (AP1 optic, Nichia LEDs)	36	4000K	5	P only	

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	CATEGORY OR INTENDED USE	SUPPLIER
OrangeTek (cont'd)	TerraLED Mini (AP2 Optic, PMMA lens & Osram LEDs)	34	4000K	5	P only	OrangeTek Ltd
	TerraLED Mini (MX1 & WX1 optics, Cree XPG3 LEDs)	36	4000K	5	P only	
Panhost Ltd	TransLEDer (Optics: 2m-8-18, 3m-8-18) [See note 6]	23	3800K	6.5	P only	Transleder Lighting Ltd
	TransLEDer (Optics: V4-3-TA, V3-3-TA, V4-1-AT, V-U-AT) [See note 6]	160	3800K	8	V only	
	TransLEDer-Vi (Optics: V4-1-AT, V-U-AT) [See note 6]	160	3900K	8	V only	
Philips	Luma 1 80 (R5 optic only)	135.1	3900K	11	V3 & V4 only	IBEX International Ltd
	Stela+ (Gen2) (NRN optic only)	36	4000K	7	P only	Signify / Philips (NZ) Ltd
	Roadgrace BRP711 (DWP optic)	20	4000K	6.5	P only	

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Philips (cont'd)	Roadgrace BRP711 (DWP1 optic)	26	4000K	6.5	P only	Signify / Philips (NZ) Ltd
	Roadgrace BRP711 (DWP3 optic)	26	4000K	6.5	P only	
	Roadgrace BRP712 (DW1 optic)	120	4000K	7.4	V3 & V4 only	
Schröder	PIANO 1	63	4250K	8.7	P and V	Betacom (1988) Ltd
	PIANO 2	128	4250K	14.5	V only	
	TECEO 1 (5068 optic only)	113	4100K	9.6	P and V	
	TECEO 1 (5144 & 5145 optics only)	75	4000	9.6	Pedestrian Crossings	
	TECEO 1 Cree XPL (5118, 5163 & 5164 optics only)	150	4100K	9.6	V only	
	TECEO 2 (5102, 5103 & 5118 optics only)	279	4100K	17.5	V only	
Simon Electric Co Ltd	Nath-S 24W 80-155°	25	3900K	7.3	P only	Lumenworks Ltd



MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	CATEGORY OR INTENDED USE	SUPPLIER
Vizulo	Mini Martin 12 LED (20 & 25 optics only)	93.3	4000	5.8	V2, V3 & V4 only	IBEX International Ltd
	Mini Martin (Models: 2500, 2700, 3000 & 3300)	28	3900K	5.5	P only	
	Mini Stork (Models: 2500, 2700, 3000 & 3300)	28	3900K	8.6	P only	
	Mini Stork (10, 20 & 25 optics only)	168	4000K	8.6	V only	IBEX International Ltd
Vulkan	V3630-0.1Cu [see Notes 5 & 6]	140.1	4000K	9.5	P and V	O-Light Ltd
We-ef	VFL530 [see Notes 3 & 6]	55	4080K	6.6	P only	Mark Herring Lighting Ltd
	VFL540 (Cree XP-L version) [see Notes 3 & 6]	219	4000K	8.5	V only	
Windsor Urban (Notes 1 & 4)	Ely C	33	4000K	3.2	P only	Windsor Urban Ltd
	Trafalgar	33	4000K	8.8	P only	

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ZGSM (Hangzhou ZGSM Technology Co. Ltd)	CRUX PLUS [NB-SL-CRUX-P] (Optic: L9 only) [see Note 7]	25	3900K	8.5	P only	NB SmartCities NZ Ltd
	CRUX PLUS [NB-SL-CRUX-P] (Optic: L7 only) [see Note 7]	135	3900K	8.5	V only	

## Luminaire Specific Notes

1. Luminaire only to be used for new ("green field") installations, not suited to general road/street lighting applications.
2. Luminaire has no internal tilt capability. Must be used on horizontal outreach arms only.
3. Luminaire has no internal tilt capability. 8° and 13° adapters available.
4. Special purpose luminaire with no surfaces available for a NEMA socket. External control required.
5. Acceptance is for unpainted luminaire only
6. Luminaire should be supplied with flex and IP68 plug
7. Limited internal tilt. Must be supplied with external variable tilt adapter for 5° steps.
8. Premium SPD to be included to ensure minimum 10kV (Uoc) / 10kA (In) protection

For further information on any of the above products, please contact the respective supplier.

This list is available on line at [www.nzta.govt.nz/resources/specification-and-guidelines-for-road-lighting-design/index.html](http://www.nzta.govt.nz/resources/specification-and-guidelines-for-road-lighting-design/index.html)

Luminaire details and status correct at date of publication.

For all other enquiries, please contact the [Lead Advisor Safety \(Roads & Roadsides\)](#)