

# M30 Accepted Luminaires

29 July 2024

## General Notes

As at 29 July 2024, the following luminaires have been assessed by NZ Transport Agency Waka Kotahi (NZTA) using M30 criteria and granted acceptance for installation.

- a) The Light Emitting Diode (LED) luminaires listed below have been assessed by NZTA and are accepted for use as road lighting luminaires on the New Zealand network. A detailed design to AS/NZS 1158 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. The luminaire system wattage shall not exceed the maximum value stated in this document. Any optic from the luminaire family may be used subject to satisfying the M30 specification, client and specific project requirements.
- 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, preferably 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 more 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.
  - 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.

(General notes cont'd)

- g) Once a luminaire has been listed, acceptance will remain in force for at least 12 months. Thereafter, the acceptance may be withdrawn if the luminaire is evaluated against the current M30 review checklist and determined as no longer suitable for inclusion on the list.
- h) Where a luminaire has been accepted by another agency (e.g. Auckland Transport or Christchurch City Council), following confirmation that they have assessed and accepted the luminaire, the M30 acceptance will be linked to that of the other agency, or that agency's findings reflected in the M30 list. If the other agency rescinds approval, the luminaire will be removed from the M30 list.
- i) Where a luminaire has been removed from the list, an RCA may choose to use the luminaire for infill or maintenance replacements to match existing, but it would no longer be recommended for new installations. An exception would be made for luminaires purchased by the RCA prior to removal from the M30 list.

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
AEC	COMPASS 1 <i>(Approved: 17/04/20)</i> <i>(Approval refreshed: 23/08/22)</i>	104	4000K	10.5	Techlight Ltd
	COMPASS 2 <i>(Approved 17/04/20)</i> <i>(Approval refreshed: 23/08/22)</i>	150	4000K	13.5	
	ITALO 1 (Luxeon MX version) [See note 10] <i>(Approved: 20/05/19)</i> <i>(Approval refreshed: 23/08/22)</i>	146	4000K	7	
	ITALO 2 (Luxeon MX version) [See note 10] <i>(Approved: 20/05/19)</i> <i>(Approval refreshed: 23/08/22)</i>	293	4000K	12	
	ITALO 3 (Luxeon MX version) <i>(Approved: 20/05/19)</i> <i>(Approval refreshed: 23/08/2022)</i>	304	4000K	20	
	ITALO 1 5P5 [See note 10] <i>(Approved: 18/06/24)</i>	173	4000K	8	
	ITALO 2 5P5 [See note 10] <i>(Approved: 18/06/24)</i>	231	4000K	12.5	

(AEC cont'd)	I-TRON Zero OC6 & OC8 <i>(Approved: 03/05/18)</i> <i>(Approval refreshed: 25/10/22)</i>	80	4000K	4.5
	I-TRON Zero 5P5 <i>(Approved: 01/02/24)</i>	132	4000K	6
	I-TRON 1 OC6 & OC8 <i>(Approved: 03/05/18)</i> <i>(Approval refreshed: 25/10/22)</i>	150	4000K	7.0
	I-TRON 1 5P5 <i>(Approved: 08/02/24)</i>	173	4000K	8
	I-TRON 2 5P5 <i>(Approved: 18/06/24)</i>	306	4000K	13
	MOD 2.0 PRO [See note 11] <i>(Approval refreshed: 23/08/22)</i>	102	4000K	9.0
	MOD 2.0 URBAN [See note 2] <i>(Approval refreshed: 23/08/22)</i>	102	4000K	11.0
	REVELAMPE [See notes 1 & 2] <i>(Approved: 23/08/22)</i>	102	4000K	9
	STORY S [See note 2, 12] <i>(Approved: 17/08/21)</i>	23.7	4000K	9
	STORY TP [See note 2] <i>(Approved: 17/08/21)</i>	23.7	4000K	9

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
Cree	ENERGY – UNO [See note 10] <i>(Approved: 13/06/22)</i> <i>(Approval updated: 23/08/22)</i>	54	4000K	6.5	Advanced Lighting Technologies
	ENERGY – DUE [See note 10] <i>(Approved: 13/06/22)</i>	106	4000K	7.5	
	ENERGY – TRE <i>(Approved: 13/06/22)</i>	182	4000K	8	
CU Phosco Lighting	P852K [See note 8] <i>(Approved: 17/10/19)</i> <i>(Approval refreshed: 03/12/21)</i>	40	4000K	5	Aii Lighting
	P863 4x4 [See notes 8 & 10] <i>(Approved: 19/06/24)</i>	168	4000K	8.2	
	P862 4x4 128LED [See notes 8 & 10] <i>(Approved: 19/06/24)</i>	196	4000K	9.7	
	P862 4x4 256LED [See notes 8 & 10] <i>(Approved: 19/06/24)</i>	225	4000K	9.7	
DW Windsor	ELY A [See note 2] <i>(Approved: 13/06/21)</i>	100	4000K	9.6	Light Project

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DW Windsor cont'd	ELY B [See note 2] (Approved: 13/06/21)	47	4000K	5.6	
	Kirium Pro Midi (Approved: 20/01/21) (Approval refreshed: 23/08/22)	60	4000K	5.1	
	Kirium Pro 2	116	4000K	9.8	
EWO	F-System XS [See notes 2, 8 & 10] (Approved: 23/06/21) (Ped Optic added: 20/06/24)	96.1	4000K	9	Energylight Ltd
	F-System S [See notes 2 & 8] (Approved: 23/06/21)	148	4000K	12.5	
Felicity Smart Infrastructure	GYRO [See notes 8 & 10] (Ped optic added: 23/06/21) (Approval refreshed: 28/02/22)	107	4000K	9	NBSmartcities NZ
	RAZO-M (Wattage updated: 17/05/22) (Approval refreshed: 23/08/22)	140	4000K	7.9	
	RAZO-S (Approval refreshed: 23/08/22)	22	4000K	5.7	
Holophane	S-LINE (Approval refreshed: 14/06/22)	68	4000K	5	Advanced Lighting Technologies

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
IBEX Lighting	NOX-M <i>(Approved: 11/07/23)</i> <i>(Wattage updated: 18/06/24)</i>	194	4000K	8.5	IBEX Lighting
	NOX-S [See note 10] <i>(Approved: 11/07/23)</i> <i>(Wattage updated &amp; Ped Optic added: 07/09/23)</i>	52	4000K	5.1	
	VELA [See notes 1 & 2] <i>(Approved: 25/10/22)</i>	35	4000K	8.1	
iGuzzini	WOODY Street LED [See note 4] <i>(Approval refreshed: 14/06/22)</i>	56.8	4000K	9	ECC Lighting Ltd
Ligman	Atlantic [See notes 1, 2 & 4]	38.2	4000K	8.8	Impressions Lighting Ltd
NVC International	ISCO1	75	4000K	7.5	NVC International (NZ) Ltd
	ISCO2	160	4000K	8.5	
	UNISCO 1 <i>(Approved: 13/07/21)</i>	75	4000K	7.5	
	UNISCO 2 <i>(Approved: 13/07/21)</i>	160	4000K	8.5	

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
OrangeTek	IGNIS 1 [See note 10] <i>(Approved: 17/10/19)</i> <i>(Approval refreshed: 20/06/22)</i>	141	4000K	7.9/8.2	OrangeTek Ltd
	IGNIS 2 [See note 8] <i>(Approved: 17/10/19)</i> <i>(Approval refreshed: 20/06/22)</i>	219	4000K	12.3/13.2	
	IGNIS MINI PLUS [See note 10] <i>(Approved: 18/06/21)</i> <i>(Approval refreshed: 23/01/23)</i>	116	4000K	6.5	
	TerraLED Mini (Osram version & PMMA lens) <i>(Approval refreshed: 20/06/22)</i>	36	4000K	5	
Panhost	TransLEDer TL-B-4 (Body: B [medium]) (Ver: 4 [Cree XPG3, PMMA visor]) [See notes 6 & 9] <i>(Approved: 17/10/19)</i> <i>(Approval refreshed: 28/02/22)</i>	160	4000K	8	Transleder Lighting Ltd
	TransLEDer TL-C-4 (Body: C [large]) (Ver: 4 [Cree XPG3, PMMA visor]) [See notes 6 & 9] <i>(Approved: 17/10/19)</i> <i>(Approval refreshed: 28/02/22)</i>	160	4000K	8	



MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
(Panhost cont'd)	TransLEDer TL-A-5 (Body: A [small]) (Ver: 5 [Osram P3737, PMMA visor]) [See notes 6 & 9] <i>(Approved: 13/07/21)</i>	132	4000K	9	
	TransLEDer TL-B-5 (Body: B [medium]) (Ver: 5 [Osram P3737, PMMA visor]) [See notes 6 & 9] <i>(Approved: 13/07/21)</i>	80	4000K	6.5	
	TransLEDer TL-C-5 (Body: C [large]) (Ver: 5 [Osram P3737, PMMA visor]) [See notes 6 & 9] <i>(Approved: 13/07/21)</i>	210	4000K	9.1	
Schröder	TECEO 1 (Cree XP-G3 version) [See note 10]	104	4000K	9.6	Betacom Schreder
	TECEO 2 (Cree XP-G3 version)	276	4000K	15/17.5	

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
Signify	LUMA 2 BGP 701 [See notes 6 & 10] <i>(Approved: 23/11/21)</i>	34.5	4000K	6	Signify New Zealand Ltd
	LUMA 2 BGP 704 (See notes 6 & 10) <i>(Approved: 23/11/21)</i>	108	4000K	11.5	
	Roadrace BRP711	26	4000K	6.5	
	Roadrace BRP712	120	4000K	7.4	
Sylvania-Schröder	SastaLED – Size 1 SL99234 (Small) [See notes 6 & 8] <i>(Approved: 03/08/18)</i> <i>(Approval refreshed: 23/08/22)</i>	50	4000K	5.3	Betacom Schreder
	SastaLED – Size 2 SL99234 (Large) [See notes 6 & 8] <i>(Approved: 03/08/18)</i> <i>(Approval refreshed: 23/08/22)</i>	150	4000K	9	
	Avenue II [See notes 1 & 2] <i>(Approved: 14/06/22)</i>	20	4000K	7	

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
(Sylvania-Schröder cont'd)	Bourke Hill II [See notes 1 & 2] <i>(Approved: 14/06/22)</i>	85	4000K	8.9	
	Parkeville II [See notes 1 & 2] <i>(Approved: 14/06/22)</i>	118	4000K	15	
THP Inc Ltd	Cambridge [See notes 1 & 2] <i>(Approved: 23/08/22)</i> <i>(Wattage updated: 22/05/23)</i>	96	4000K	8.5	THP Inc Ltd
	Tasman II-S [See note 10] <i>(Approved: 20/04/21)</i> <i>(Ped optic added: 20/06/22)</i>	44	4000K	4.8	
	Tasman II-M <i>(Approved: 20/04/21)</i>	97	4000K	6.3	
	Tasman II-L <i>(Approved: 20/04/21)</i>	200	4000K	8.9	
	Tasman II-LL (Luxeon TX 3737) <i>(Approved: 18/05/23)</i>	142	4000K	8.9	
Vizulo	Mini Stork <i>(Approved: 30/11/17)</i>	168	4000K	8.6	IBEX International Ltd

MANUFACTURER	LUMINAIRE MODEL	MAX SYSTEM WATTAGE (W)	NOM. COLOUR TEMPERATURE	MASS (KG)	SUPPLIER
We-ef	ASP530X [See notes 1, 2 & 10] <i>(Approved: 13/06/21)</i>	149	4000K	8.7	Mark Herring Lighting Ltd
	VFL530X [See notes 3, 6 & 10] <i>(Ped optic added: 24/11/21)</i> <i>(Approval refreshed: 13/06/22)</i>	81	4000K	6.6	
	VFL540X [See notes 3 & 6] <i>(Approval refreshed: 13/06/22)</i>	162	4000K	8.2	
Windsor Urban	Palmerston (formerly Ely C) [See notes 1, 2 & 4]	33	4000K	3.2	Windsor Urban Ltd
	Halswell (formerly Trafalgar) [See notes 1, 2 & 4]	33	4000K	8.8	

### Luminaire Specific Notes:

1. Luminaire only to be used for new (“green field”) or decorative retrofit installations, not suited to general road/street lighting applications
2. Luminaire has no internal tilt capability. Must be used on a suitable outreach arm to achieve zero tilt
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 integral 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
9. Option available with IP67 fused terminal block in lieu of flex & plug
10. Suitable pedestrian crossing optics available
11. Wall mount luminaire
12. Must include a fail-safe J-connect spigot adapter (in accordance with SA/SNZ TS 1158.6)

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

This list is available online 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 Safety Advisor](#)