

Catalog #	
Project name	
Prepared by	

# CROLL

## Roadway Lighting Luminaire

### PRODUCT OVERVIEW



### APPLICATIONS

- Area Lighting
- Residential Lighting
- Roadway Lighting
- Parking Lot Lighting

### DIMENSIONS

Unit: Inch (mm)

Approximate Net Weight: 18.3 lbs. (8.3 kgs.)  
 Dimensions: 25.4" x 14.9" x 4.6" (646mm x 378mm x 117mm)  
 Effective Projected Area (EPA): 0.74 sq. ft. max. (0.069 sq. m.)

### PRODUCT CERTIFICATIONS



### PRODUCT SPECIFICATIONS

#### OPTICAL

Ideal LED replacement for 400W HPS roadway  
 Precision optical lens design  
 Photometric distributions available in Type II, III, IV, and V  
 Standard 4000K CCT/ 70 CRI minimum, 2700K, 3000K, and 5000K CCT/ 70 CRI minimum option available  
 IP66 rated LED light engines

#### ELECTRICAL

120-277V 50/60Hz operation; 347-480V is also available  
 Standard 1-10V dimming; DALI dimming option available  
 10kV/5kA Surge protection meets IEEE/ ANSI C62.41, ANSI C136.2-2015  
 20kV/10kA SPD option meets IEEE/ANSI C62.41.2 Location Category C High, ANSI C136.2-2015 Extreme Level

#### CONSTRUCTION

Heavy-duty low copper die cast aluminum housing and door  
 Arm mount is adjustable from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter  
 Slipfitter with -5, -2.5, 0, +2.5, +5 degree of adjustment for leveling  
 Standard two-bolt/ one-bracket slipfitter provides 3G vibration rating per ANSI C136.31-2018. Optional four-bolt/ two-bracket slipfitter available  
 Tool-less entry for easy installation and maintenance

#### CONTROL

Standard advance 7-pin photocontrol receptacle available to meet ANSI C136.41

#### WARRANTY

Ten-year warranty\*  
 \* See your sales representative for warranty terms and conditions

#### RATING AND CERTIFICATIONS

UL and cUL Wet Location Listed  
 DesignLights Consortium® (DLC) Qualified Product\*<sup>1</sup>  
 Dark Sky Compliant (<3000K CCT only)  
 Rated for -40°C to +45°C ambient (-40°F to +113°F ambient)\*<sup>2</sup>  
 Certified to ANSI C136.31-2018 3G Vibration  
 Meets FCC Part 15, Subpart B, Class A Standards  
 Meets Buy American Requirements within ARRA  
 RoHS Compliant  
 Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

\*1 Work in progress  
 \*2 -40°C to +40°C ambient for L360

Catalog #	
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# EOI LED Roadway Lighting Compass Series

## PERFORMANCE TABLE

Light Distribution	Color Temp. 4000K					Color Temp. 3000K					Color Temp. 2700K				
	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating
Type II	L240	23903	157	152	B3-U0-G3	L240	22707	157	145	B3-U0-G3	L240	21990	157	140	B3-U0-G3
	L270	27195	181	150	B4-U0-G3	L270	25836	181	143	B3-U0-G3	L270	25020	181	138	B3-U0-G3
	L300	29961	206	145	B4-U0-G3	L300	28463	206	138	B4-U0-G3	L300	27564	206	134	B4-U0-G3
	L330	32967	232	142	B4-U0-G3	L330	31319	232	135	B4-U0-G3	L330	30330	232	131	B4-U0-G3
	L360	34935	254	138	B4-U0-G4	L360	33779	254	133	B4-U0-G4	L360	32910	254	130	B4-U0-G3
Type III	L240	24144	157	154	B3-U0-G3	L240	22937	157	146	B3-U0-G3	L240	22212	157	141	B3-U0-G3
	L270	27470	181	151	B3-U0-G3	L270	26097	181	144	B3-U0-G3	L270	25273	181	140	B3-U0-G3
	L300	30264	206	147	B3-U0-G4	L300	28751	206	140	B3-U0-G4	L300	27843	206	135	B3-U0-G3
	L330	33300	232	144	B4-U0-G4	L330	31635	232	136	B3-U0-G4	L330	30636	232	132	B3-U0-G4
	L360	35916	254	141	B4-U0-G4	L360	34120	254	134	B4-U0-G4	L360	33242	254	131	B4-U0-G4
Type IV	L240	23661	157	151	B3-U0-G4	L240	22478	157	143	B3-U0-G4	L240	21973	157	140	B3-U0-G3
	L270	26921	181	149	B3-U0-G4	L270	25575	181	141	B3-U0-G4	L270	24767	181	137	B3-U0-G4
	L300	29659	206	144	B3-U0-G4	L300	28176	206	137	B3-U0-G4	L300	27286	206	132	B3-U0-G4
	L330	32634	232	141	B3-U0-G4	L330	31002	232	134	B3-U0-G4	L330	30023	232	129	B3-U0-G4
	L360	34911	254	137	B4-U0-G5	L360	33438	254	132	B4-U0-G4	L360	32224	254	127	B3-U0-G4
Type V	L240	24868	157	158	B5-U0-G3	L240	23625	157	150	B5-U0-G3	L240	22879	157	146	B5-U0-G3
	L270	28294	181	156	B5-U0-G3	L270	26880	181	149	B5-U0-G3	L270	26031	181	144	B5-U0-G3
	L300	31172	206	151	B5-U0-G4	L300	29613	206	144	B5-U0-G4	L300	28678	206	139	B5-U0-G3
	L330	34299	232	148	B5-U0-G4	L330	32584	232	140	B5-U0-G4	L330	31555	232	136	B5-U0-G4
	L360	36450	254	143	B5-U0-G4	L360	35144	254	138	B5-U0-G4	L360	34239	254	135	B5-U0-G4

Information shown above is based on nominal system data. Initial delivered lumens at 25°C(77°F). Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

## LUMEN MAINTENANCE

Lumen Package	TM-21 Lumen Maintenance (50,000 hours)	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
L360	90.21%	81.11%	>100,000

Projected lumen maintenance per IES TM-21 at 25°C ambient and based on LM-80.

## ORDERING INFORMATION

CROLL-	A72			
Product Series	LED Engine	Lumen Package	Driver	Optics
<b>CROLL</b> – Compass Roadway Lighting Large	<b>A72</b> – 72LED	* <b>L240</b> – 24,000 lm <b>L270</b> – 27,000 lm <b>L300</b> – 30,000 lm <b>L330</b> – 33,000 lm <b>L360</b> – 36,000 lm	<b>UD</b> – 120~277V, 1-10V <b>HD</b> – 347~480V, 1-10V * <b>DD</b> – 120~277V, DALI	<b>2M</b> – Type II Medium <b>3M</b> – Type III Medium <b>4M</b> – Type IV Medium <b>5M</b> – Type V Medium

Color Temperature	Paint	Surge Protection	Controls	Accessories
<b>27</b> – 2700K <b>30</b> – 3000K <b>40</b> – 4000K * <b>50</b> – 5000K	<b>GY</b> – Gray <b>BZ</b> – Bronze <b>BK</b> – Black <b>GR</b> – Green RAL 6012	<b>10V</b> – 10kV/5kA SPD <b>20V</b> – 20kV/10kA SPD <b>20F</b> – 20kV/10kA Failed to Open	<b>7R</b> – 7-pin PCR <b>P7</b> – Longlife Photocell and 7-pin PCR * <b>7RD</b> – 7-pin PCR and 8 Level Dimming * <b>P7D</b> – Longlife Photocell, 7-pin PCR, and 8 Level Dimming	<b>6-14A</b> – 6' Pre-wire 14AWG Solid <b>5-14A</b> – 5' Pre-wire 14AWG Solid <b>FS</b> – Fuse <b>EB</b> – External Bubble Leveling <b>N</b> – None

\* L240 with DD driver is excluded on the DLC list.

\* 5000K, 7RD and P7D models are excluded on the DLC list.

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# CRLM

## Roadway Lighting Luminaire

### PRODUCT OVERVIEW



### PRODUCT SPECIFICATIONS

#### OPTICAL

Ideal LED replacement for 250W to 400W HPS roadway  
Precision optical lens design  
Photometric distributions available in Type II, III, IV, and V  
Standard 4000K CCT/ 70 CRI minimum, 2700K, 3000K, and 5000K CCT/ 70 CRI minimum option available  
IP66 rated LED light engines

#### ELECTRICAL

120-277V 50/60Hz operation; 347-480V is also available  
Standard 1-10V dimming; DALI dimming option available  
10kV/5kA Surge protection meets IEEE/ ANSI C62.41, ANSI C136.2-2015  
20kV/10kA SPD option meets IEEE/ANSI C62.41.2 Location Category C High, ANSI C136.2-2015 Extreme Level

#### CONSTRUCTION

Heavy-duty low copper die cast aluminum housing and door  
Arm mount is adjustable from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter  
Slipfitter with -5, -2.5, 0, +2.5, +5 degree of adjustment for leveling  
Standard two-bolt/ one-bracket slipfitter provides 3G vibration rating per ANSI C136.31-2018. Optional four-bolt/ two-bracket slipfitter available  
Tool-less entry for easy installation and maintenance

#### CONTROL

Standard advance 7-pin photocontrol receptacle available to meet ANSI C136.41

#### WARRANTY

Ten-year warranty\*  
\* See your sales representative for warranty terms and conditions

#### RATING AND CERTIFICATIONS

UL and cUL Wet Location Listed  
DesignLights Consortium® (DLC) Qualified Product  
Dark Sky Compliant (<3000K CCT only)  
Rated for -40°C to +50°C ambient (-40°F to +122°F ambient)\*  
Certified to ANSI C136.31-2018 3G Vibration  
Meets FCC Part 15, Subpart B, Class A Standards  
Meets Buy American Requirements within ARRA  
RoHS Compliant  
Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

\* -40°C to +45°C ambient for L240

### APPLICATIONS

- Area Lighting
- Residential Lighting
- Roadway Lighting
- Parking Lot Lighting

### DIMENSIONS

Unit: Inch (mm)

Approximate Net Weight: 12.3 lbs. (5.6 kgs.)  
Dimensions: 22.9" x 11.8" x 4.6" (581mm x 300mm x 117mm)  
Effective Projected Area (EPA): 0.56 sq. ft. max. (0.052 sq. m.)

### PRODUCT CERTIFICATIONS



Catalog #	
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# EOI LED Roadway Lighting Compass Series

## PERFORMANCE TABLE

Light Distribution	Color Temp. 4000K/5000K					Color Temp. 3000K					Color Temp. 2700K				
	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating
Type II	L120	12366	79	157	B3-U0-G2	L120	11747	79	149	B3-U0-G2	L120	11376	79	144	B3-U0-G2
	L140	13686	89	154	B3-U0-G2	L140	13002	89	146	B3-U0-G2	L140	12591	89	141	B3-U0-G2
	L160	16087	106	152	B3-U0-G3	L160	15283	106	144	B3-U0-G2	L160	14800	106	140	B3-U0-G2
	L180	18248	123	148	B3-U0-G3	L180	17336	123	141	B3-U0-G3	L180	16788	123	136	B3-U0-G3
	L200	20409	140	146	B3-U0-G3	L200	19389	140	138	B3-U0-G3	L200	18776	140	134	B3-U0-G3
	L220	22090	154	143	B3-U0-G3	L220	20985	154	136	B3-U0-G3	L220	20323	154	132	B3-U0-G3
Type III	L240	24011	171	140	B3-U0-G3	L240	22810	171	133	B3-U0-G3	L240	22090	171	129	B3-U0-G3
	L120	12489	79	158	B2-U0-G2	L120	11865	79	150	B2-U0-G2	L120	11490	79	145	B2-U0-G2
	L140	13823	89	155	B2-U0-G2	L140	13132	89	148	B2-U0-G2	L140	12717	89	143	B2-U0-G2
	L160	16248	106	153	B3-U0-G3	L160	15436	106	146	B2-U0-G2	L160	14948	106	141	B2-U0-G2
	L180	18431	123	150	B3-U0-G3	L180	17509	123	142	B3-U0-G3	L180	16956	123	138	B3-U0-G3
	L200	20613	140	147	B3-U0-G3	L200	19583	140	140	B3-U0-G3	L200	18964	140	135	B3-U0-G3
Type IV	L220	22311	154	145	B3-U0-G3	L220	21195	154	138	B3-U0-G3	L220	20526	154	133	B3-U0-G3
	L240	24251	171	142	B3-U0-G3	L240	23038	171	135	B3-U0-G3	L240	22074	171	129	B3-U0-G3
	L120	12242	79	155	B2-U0-G2	L120	11630	79	147	B2-U0-G2	L120	11201	79	142	B2-U0-G2
	L140	13549	89	152	B2-U0-G3	L140	12872	89	145	B2-U0-G2	L140	12465	89	140	B2-U0-G2
	L160	15926	106	150	B3-U0-G3	L160	15130	106	143	B3-U0-G3	L160	14652	106	138	B2-U0-G3
	L180	18066	123	147	B3-U0-G3	L180	17162	123	139	B3-U0-G3	L180	16620	123	135	B3-U0-G3
Type V	L200	20205	140	144	B3-U0-G3	L200	19195	140	137	B3-U0-G3	L200	18589	140	133	B3-U0-G3
	L220	21869	154	142	B3-U0-G3	L220	20776	154	135	B3-U0-G3	L220	20120	154	131	B3-U0-G3
	L240	23771	171	139	B3-U0-G4	L240	22582	171	132	B3-U0-G4	L240	21739	171	127	B3-U0-G3
	L120	12872	79	163	B4-U0-G2	L120	12229	79	155	B4-U0-G2	L120	11843	79	150	B4-U0-G2
	L140	14247	89	160	B4-U0-G2	L140	13535	89	152	B4-U0-G2	L140	13107	89	147	B4-U0-G2
	L160	16747	106	158	B4-U0-G2	L160	15909	106	150	B4-U0-G2	L160	15407	106	145	B4-U0-G2
Type V	L180	18996	123	154	B4-U0-G2	L180	18046	123	146	B4-U0-G2	L180	17476	123	142	B4-U0-G2
	L200	21246	140	152	B5-U0-G3	L200	20183	140	144	B5-U0-G3	L200	19546	140	140	B4-U0-G3
	L220	22995	154	149	B5-U0-G3	L220	21845	154	142	B5-U0-G3	L220	21156	154	137	B5-U0-G3
	L240	24995	171	146	B5-U0-G3	L240	23745	171	139	B5-U0-G3	L240	22995	171	134	B5-U0-G3

Information shown above is based on nominal system data. Initial delivered lumens at 25°C(77°F). Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

## LUMEN MAINTENANCE

Lumen Package	TM-21 Lumen Maintenance (50,000 hours)	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
L220	90.23%	81.16%	>100,000

Projected lumen maintenance per IES TM-21 at 25°C ambient and based on LM-80.

## ORDERING INFORMATION

CRLM-

A48

Product Series	LED Engine	Lumen Package	Driver	Optics
CRLM – Compass Roadway Lighting Medium	A48 – 48LED	L120 – 12,000 lm L140 – 14,000 lm L160 – 16,000 lm L180 – 18,000 lm L200 – 20,000lm L220 – 22,000 lm L240 – 24,000 lm	UD – 120~277V, 1-10V HD – 347~480V, 1-10V DD – 120~277V, DALI DH – 347~480V, DALI	2M – Type II Medium 3M – Type III Medium 4M – Type IV Medium 5M – Type V Medium

Color Temperature	Paint	Surge Protection	Controls	Accessories
27 – 2700K 30 – 3000K 40 – 4000K * 50 – 5000K	GY – Gray BZ – Bronze BK – Black GR – Green RAL 6012	10V – 10kV/5kA SPD 20V – 20kV/10kA SPD 20F – 20kV/10kA Failed to Open	7R – 7-pin PCR P7 – Longlife Photocontrol and 7-pin PCR * 7RD – 7-pin PCR and 8 Level Dimming * P7D – Longlife Photocontrol, 7-pin PCR, and 8 Level	6-14A – 6' Pre-wire 14AWG Solid 5-14A – 5' Pre-wire 14AWG Solid FS – Fuse EB – External Bubble Leveling N – None HS – House Side Shield SS – Street Side Shield CS – Cul-de-sac Shield

\* 5000K, 7RD and P7D models are excluded on the DLC list.

Catalog #	
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# CRLS

## Roadway Lighting Luminaire

### PRODUCT OVERVIEW



### PRODUCT SPECIFICATIONS

#### OPTICAL

Ideal LED replacement for 70W to 250W HPS roadway  
Precision optical lens design  
Photometric distributions available in Type II, III, IV, and V  
Standard 4000K CCT/ 70 CRI minimum, 2700K, 3000K, and 5000K CCT/ 70 CRI minimum option available  
IP66 rated LED light engines

#### ELECTRICAL

120-277V 50/60Hz operation; 347-480V is also available  
Standard 1-10V dimming; DALI dimming option available  
10kV/5kA Surge protection meets IEEE/ ANSI C62.41, ANSI C136.2-2015  
20kV/10kA SPD option meets IEEE/ANSI C62.41.2 Location Category C High, ANSI C136.2-2015 Extreme Level

#### CONSTRUCTION

Heavy-duty low copper die cast aluminum housing and door  
Arm mount is adjustable from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter  
Slipfitter with -5, -2.5, 0, +2.5, +5 degree of adjustment for leveling  
Standard two-bolts/ one-bracket slipfitter provides 3G vibration rating per ANSI C136.31-2018. Optional four-bolts/ two-bracket slipfitter available  
Tool-less entry for easy installation and maintenance

#### CONTROL

Standard advance 7-pin photocontrol receptacle available to meet ANSI C136.41

#### WARRANTY

Ten-year warranty\*  
\* See your sales representative for warranty terms and conditions

#### RATING AND CERTIFICATIONS

UL and cUL Wet Location Listed  
DesignLights Consortium® (DLC) Qualified Product  
Dark Sky Compliant (<3000K CCT only)  
Rated for -40°C to +50°C ambient (-40°F to +122°F ambient)\*  
Certified to ANSI C136.31-2018 3G Vibration  
Meets FCC Part 15, Subpart B, Class A Standards  
Meets Buy American Requirements within ARRA  
RoHS Compliant  
Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

\* -40°C to +45°C ambient for L120

### APPLICATIONS

- Area Lighting
- Residential Lighting
- Roadway Lighting
- Parking Lot Lighting

### DIMENSIONS

Unit: Inch (mm)

Approximate Net Weight: 8.8 lbs. (4 kgs.)  
Dimensions: 22.5" x 8.7" x 4.6" (572mm x 220mm x 117mm)  
Effective Projected Area (EPA): 0.45 sq. ft. max. (0.042 sq. m.)

### PRODUCT CERTIFICATIONS



Catalog #	
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# EOI LED Roadway Lighting Compass Series

## PERFORMANCE TABLE

Light Distribution	Color Temp. 4000K/5000K					Color Temp. 3000K					Color Temp. 2700K				
	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating
Type II	L060	6724	42	160	B2-U0-G1	L060	6388	42	152	B2-U0-G1	L060	6186	42	147	B2-U0-G1
	L090	9343	62	151	B2-U0-G2	L090	8875	62	143	B2-U0-G2	L090	8595	62	139	B2-U0-G2
	L110	11247	78	144	B3-U0-G2	L110	10685	78	137	B3-U0-G2	L110	10347	78	133	B2-U0-G2
	L120	12152	88	138	B3-U0-G2	L120	11544	88	131	B3-U0-G2	L120	11180	88	127	B3-U0-G2
Type III	L060	6792	42	162	B2-U0-G1	L060	6452	42	154	B2-U0-G1	L060	6248	42	149	B1-U0-G1
	L090	9416	62	152	B2-U0-G2	L090	8945	62	144	B2-U0-G2	L090	8818	62	142	B2-U0-G2
	L110	11361	78	146	B2-U0-G2	L110	10793	78	138	B2-U0-G2	L110	10452	78	134	B2-U0-G2
	L120	12349	88	140	B2-U0-G2	L120	11731	88	133	B2-U0-G2	L120	11474	88	130	B2-U0-G2
Type IV	L060	6656	42	158	B2-U0-G2	L060	6323	42	151	B2-U0-G2	L060	6018	42	143	B1-U0-G2
	L090	9228	62	149	B2-U0-G2	L090	8766	62	141	B2-U0-G2	L090	8437	62	136	B2-U0-G2
	L110	11134	78	143	B2-U0-G2	L110	10577	78	136	B2-U0-G2	L110	10085	78	129	B2-U0-G2
	L120	12102	88	138	B2-U0-G2	L120	11497	88	131	B2-U0-G2	L120	10936	88	124	B2-U0-G2
Type V	L060	6996	42	167	B3-U0-G2	L060	6646	42	158	B3-U0-G1	L060	6436	42	153	B3-U0-G1
	L090	9699	62	156	B4-U0-G2	L090	9214	62	149	B3-U0-G2	L090	8923	62	144	B3-U0-G2
	L110	11702	78	150	B4-U0-G2	L110	11117	78	143	B4-U0-G2	L110	10766	78	138	B4-U0-G2
	L120	12719	88	145	B4-U0-G2	L120	12083	88	137	B4-U0-G2	L120	11702	88	133	B4-U0-G2

Information shown above is based on nominal system data. Initial delivered lumens at 25°C(77°F). Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

## LUMEN MAINTENANCE

Lumen Package	TM-21 Lumen Maintenance (50,000 hours)	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
L120	90.69%	81.99%	>100,000

Projected lumen maintenance per IES TM-21 at 25°C ambient and based on LM-80.

## ORDERING INFORMATION

Product Series	LED Engine	Lumen Package	Driver	Optics
CRLS- CRLS – Compass Roadway Lighting Small	A24 A24 – 24LED	L060 – 6,000 lm L090 – 9,000 lm L110 – 11,000 lm L120 – 12,000 lm	UD – 120~277V, 1-10V HD – 347~480V, 1-10V DD – 120~277V, DALI	2M – Type II Medium 3M – Type III Medium 4M – Type IV Medium 5M – Type V Medium

Color Temperature	Paint	Surge Protection	Controls	Accessories
27 – 2700K 30 – 3000K 40 – 4000K *50 – 5000K	GY – Gray BZ – Bronze BK – Black GR – Green RAL 6012	10V – 10kV/5kA SPD 20V – 20kV/10kA SPD 20F – 20kV/10kA Failed to Open	7R – 7-pin PCR P7 – Longlife Photocontrol and 7-pin PCR *7RD – 7-pin PCR and 8 Level Dimming *P7D – Longlife Photocontrol, 7-pin PCR, and 8 Level	6-14A – 6' Pre-wire 14AWG Solid 5-14A – 5' Pre-wire 14AWG Solid FS – Fuse EB – External Bubble Leveling N – None HS – House Side Shield SS – Street Side Shield CS – Cul-de-sac Shield

\* 5000K, 7RD and P7D models are excluded on the DLC list.