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ENEC Certification Body registered under ID # 11.

Validity of ENEC+ Licences can be checked at [www.enec.com](http://www.enec.com)

# LICENCE

to use the ENEC+ Mark



Licence No.: **80585-003**

Date of issue: Wien, 2021 07 01

OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licenceholder: **ZG Lighting France**  
Route de Paix  
27700 Les Andelys  
France

Product: **Luminaires for road and street lighting**

Trade Mark: **THORN**

Series/Type: **Series Isaro (IS ... CL1 ...)**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

**Only valid in conjunction with ENEC-Licence No.: 80585-029**

**Österreichischer Verband für Elektrotechnik**  
Head of OVE Certification

Digitally signed by T. Neumayer  
Email=[t.neumayer@ove.at](mailto:t.neumayer@ove.at)

Dipl.-Ing. T. Neumayer



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<i>Hersteller Manufacturer</i>	<b>Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom</b>
<i>Fertigungsstätte(n) Factory location(s)</i>	<b>Europhane SAS Route de Paix 27700 Les Andelys France</b>
	<b>Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom</b>
	<b>ZG Lighting SRB doo Ulica Cumtobel br. 1 18000 Nis Serbia, Republic of</b>
<i>Typenbezeichnung Type reference</i>	<b>IS 12L...CL1... IS 24L...CL1... IS 36L...CL1... see type code on page 6.</b>
<i>Prüfbericht Test Report</i>	<b>TR 80585-0028-01, TR 80585-0028-02, TR 80585-0028-03, TR 80585-0028-04, TR 80585-0028-05, TR 80585-0028-06, TR 80585-0028-07, TR 80585-0028-08, TR 80585-0028-09.</b>
<i>ENEC+ Requirement Sheet Standard</i>	<b>PD EPRS 003:2018-05 (based on EN 62722-2-1:2016)</b>
<i>Ersatz für Zertifikat Superseded licence</i>	--
<i>Anmerkung(en) Remark(s)</i>	<b>This Licence is valid for all LED luminaires as listed on page 6. Rated photometric values according to EPRS 003 had been approved on selected samples, which where found to be representative for the certified family range (based on AD ENEC 331).</b>  <b>MPL-procedure.</b>

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<i>Nennspannung</i> <i>Rated voltage</i>	<b>220-240 V, 50/60 Hz</b>
<i>Nennleistung</i> <i>Rated power</i>	<b>see page 5</b>
<i>Lampentyp(en)</i> <i>Lamp identification</i>	<b>LED modules LEM R12 (12 LEDs) or LEM R36 (36 LEDs)</b>
<i>Schutzklasse</i> <i>Class of protection</i>	<b>CI.I</b>
<i>Ähnlichste Farbtemperatur</i> <i>Correlated colour temperature CCT</i>	<b>3000 K, 4000 K</b>
<i>Bemessungswert des Farbwiedergabeindex</i> <i>Rated colour rendering index CRI</i>	<b>70</b>
<i>Bemessungslichtstrom</i> <i>Rated luminous flux</i>	<b>see pages 7 to 17</b>
<i>Bemessungswert der Lichtausbeute</i> <i>Rated efficacy</i>	<b>see pages 7 to 17</b>
<i>Umgebungstemperatur <math>t_a</math></i> <i>Rated ambient temperature <math>t_a</math></i>	<b>see page 5</b>
<i>Type von LED-Leuchte</i> <i>Type of LED luminaire</i>	<b>Type A</b>
<i>Zusatzinformation</i> <i>Additional information</i>	<b>Classified as risk group 2 (moderate risk) according to EN 62471:2008.</b>

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<i>Bauteil Component</i>	<i>Code Code</i>	<i>Hersteller Manufacturer</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED control gear</i>	<b>B</b>	<b>Osram</b>	<b>OT 75W 4DIM G2</b>	<b>ENEC 10</b>
	<b>B</b>	<b>Osram</b>	<b>OT 75W 1DIM G1</b>	<b>ENEC 10</b>
	<b>B</b>	<b>Tridonic</b>	<b>LCO 14/100-500/38</b>	<b>ENEC 11</b>
	<b>B</b>	<b>Tridonic</b>	<b>LCO 40/200-1050/64</b>	<b>ENEC 11</b>
	<b>B</b>	<b>Tridonic</b>	<b>LCO 60/200-1050/100</b>	<b>ENEC 11</b>
	<b>B</b>	<b>Tridonic</b>	<b>LCO 90/200-1050/165</b>	<b>ENEC 11</b>
	<b>B</b>	<b>Tridonic</b>	<b>LCO 135/200-1050/220</b>	<b>ENEC 11</b>
<i>LED Module</i>	<b>A*</b>	<b>THORN</b>	<b>LEM R12</b> <b>max. 1050mA, RG2, tc=105°C</b> <b>tp=85°C, CRI&gt;70</b>	<b>ÖVE</b>
	<b>A*</b>	<b>THORN</b>	<b>LEM R36</b> <b>max. 1050mA, RG2, tc=105°C</b> <b>tp=85°C, CRI&gt;70</b>	<b>ÖVE</b>
<i>Terminals</i>	<b>A</b>	<b>Wago</b>	<b>224-112</b> <b>400V; 24A; T105</b>	<b>VDE</b>
	<b>A</b>	<b>Electro Terminal</b>	<b>SLK/3</b> <b>450V, 24A, T110</b>	<b>ENEC 11</b>
<i>SPD</i>	<b>B</b>	<b>Citel</b>	<b>MLPC1-230L-R</b>	<b>CB/HU-001850</b>
<i>Internal wiring</i>	<b>B</b>	<b>BLF</b>	<b>SIL/0100</b> <b>300V; 0,75mm<sup>2</sup>; 180°C</b>	<b>VDE</b>
	<b>B</b>	<b>Omerin</b>	<b>RESC</b> <b>300V; 0,75mm<sup>2</sup>; 180°C</b>	<b>VDE</b>
	<b>B</b>	<b>BLF</b>	<b>SiIHSil-U</b> <b>300V; 0,75mm<sup>2</sup>; 180°C</b>	<b>VDE</b>
<i>Cable Gland</i>	<b>A</b>	<b>Bimed</b>	<b>BMOS-22</b> <b>IP68, 100°C</b>	<b>VDE</b>
<i>External wiring</i>	<b>A</b>	<b>Pecso Cavi SRL</b>	<b>H07RN-F</b> <b>1,5mm<sup>2</sup> or 2,5mm<sup>2</sup></b>	<b>HAR</b>

A The component is replaceable with another one, also certified, with equivalent characteristics.  
A\* The component is replaceable with another one according to ETF5-OSM-LUM/DSH 2057  
B The component is replaceable if authorised by the test house.  
C Integrated component tested together with the appliance.  
D Alternative component.

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**Typelist, thermal and electrical specification:**

Model	Type	Built-in LED modules	No. of LEDs	Module current [mA]	Rated input power [W]	Rated ambient temp. (ta) [°C]
<b>X-Small</b>	<b>IS 12L35</b>	1x LEM R12	12	350	<b>14</b>	<b>50</b>
	<b>IS 12L50</b>			500	<b>20</b>	<b>50</b>
	<b>IS 12L70</b>			700	<b>27</b>	<b>45</b>
	<b>IS 12L85</b>			850	<b>33</b>	<b>45</b>
	<b>IS 12L105</b>			1050	<b>41</b>	<b>35</b>
<b>Small</b>	<b>IS 24L35</b>	2x LEM R12	24	350	<b>26</b>	<b>50</b>
	<b>IS 24L50</b>			500	<b>37</b>	<b>45</b>
	<b>IS 24L70</b>			700	<b>52</b>	<b>45</b>
	<b>IS 24L85</b>			850	<b>64</b>	<b>35</b>
	<b>IS 24L105</b>			1050	<b>79</b>	<b>35</b>
	<b>IS 36L35</b>	1x LEM R36	33	350	<b>39</b>	<b>35</b>
	<b>IS 36L50</b>			500	<b>55</b>	<b>45</b>
	<b>IS 36L70</b>			700	<b>76</b>	<b>45</b>
	<b>IS 36L85</b>			850	<b>94</b>	<b>35</b>
	<b>IS 36L105</b>			1050	<b>117</b>	<b>25</b>

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**Rated luminous flux and efficacy:**

	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 12L35-730 ENR M	14	3000	1945	138
	IS 12L35-740 ENR M	14	4000	2127	151
	IS 12L35-730 ES M	14	3000	1906	136
	IS 12L35-740 ES M	14	4000	2085	148
	IS 12L35-730 EWC M	14	3000	1908	136
	IS 12L35-740 EWC M	14	4000	2087	149
	IS 12L35-730 EWR M	14	3000	1923	137
	IS 12L35-740 EWR M	14	4000	2104	150
	IS 12L35-730 EWS M	14	3000	1866	133
	IS 12L35-740 EWS M	14	4000	2041	145
	IS 12L35-730 IVS M	14	3000	1949	139
	IS 12L35-740 IVS M	14	4000	2132	152
	IS 12L35-730 NR M	14	3000	1941	138
	IS 12L35-740 NR M	14	4000	2123	151
	IS 12L35-730 RC M	14	3000	1990	142
	IS 12L35-740 RC M	14	4000	2176	155
	IS 12L35-730 RWT M	14	3000	1986	141
	IS 12L35-740 RWT M	14	4000	2172	155
	IS 12L35-730 SC M	14	3000	1962	140
	IS 12L35-740 SC M	14	4000	2146	153
*	IS 12L35-730 SR M	14	3000	1902	135
	IS 12L35-740 SR M	14	4000	2080	148
	IS 12L35-730 NR2 M	14	3000	1928	137
	IS 12L35-740 NR2 M	14	4000	2108	150
	IS 12L35-730 TSR M	14	3000	1896	135
	IS 12L35-740 TSR M	14	4000	2073	148
	IS 12L35-730 WR M	14	3000	1960	140
	IS 12L35-740 WR M	14	4000	2144	153
	IS 12L35-730 WS M	14	3000	1896	135
	IS 12L35-740 WS M	14	4000	2073	148
	IS 12L35-730 WSC M	14	3000	1915	136
	IS 12L35-740 WSC M	14	4000	2094	149
	IS 12L50-730 ENR M	20	3000	2681	134
	IS 12L50-740 ENR M	20	4000	2933	146
	IS 12L50-730 ES M	20	3000	2628	131
	IS 12L50-740 ES M	20	4000	2875	143
	IS 12L50-730 EWC M	20	3000	2631	131
	IS 12L50-740 EWC M	20	4000	2878	143
	IS 12L50-730 EWR M	20	3000	2652	132
	IS 12L50-740 EWR M	20	4000	2900	145
	IS 12L50-730 EWS M	20	3000	2572	128
	IS 12L50-740 EWS M	20	4000	2813	140
	IS 12L50-730 IVS M	20	3000	2687	134
	IS 12L50-740 IVS M	20	4000	2939	146
	IS 12L50-730 NR M	20	3000	2675	133
	IS 12L50-740 NR M	20	4000	2926	146
	IS 12L50-730 RC M	20	3000	2743	137
	IS 12L50-740 RC M	20	4000	3000	150

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	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 12L50-730 RWT M	20	3000	2737	136
	IS 12L50-740 RWT M	20	4000	2994	149
	IS 12L50-730 SC M	20	3000	2705	135
	IS 12L50-740 SC M	20	4000	2958	147
	IS 12L50-730 SR M	20	3000	2622	131
	IS 12L50-740 SR M	20	4000	2868	143
	IS 12L50-730 NR2 M	20	3000	2658	132
*	IS 12L50-740 NR2 M	20	4000	2907	145
	IS 12L50-730 TSR M	20	3000	2613	130
	IS 12L50-740 TSR M	20	4000	2858	142
	IS 12L50-730 WR M	20	3000	2702	135
	IS 12L50-740 WR M	20	4000	2955	147
	IS 12L50-730 WS M	20	3000	2613	130
	IS 12L50-740 WS M	20	4000	2858	142
	IS 12L50-730 WSC M	20	3000	2640	132
	IS 12L50-740 WSC M	20	4000	2887	144
	IS 12L70-730 ENR M	27	3000	3606	133
	IS 12L70-740 ENR M	27	4000	3944	146
	IS 12L70-730 ES M	27	3000	3534	130
	IS 12L70-740 ES M	27	4000	3865	143
	IS 12L70-730 EWC M	27	3000	3538	131
	IS 12L70-740 EWC M	27	4000	3870	143
	IS 12L70-730 EWR M	27	3000	3566	132
	IS 12L70-740 EWR M	27	4000	3900	144
	IS 12L70-730 EWS M	27	3000	3459	128
	IS 12L70-740 EWS M	27	4000	3783	140
	IS 12L70-730 IVS M	27	3000	3614	133
	IS 12L70-740 IVS M	27	4000	3952	146
	IS 12L70-730 NR M	27	3000	3598	133
	IS 12L70-740 NR M	27	4000	3935	145
	IS 12L70-730 RC M	27	3000	3689	136
	IS 12L70-740 RC M	27	4000	4035	149
	IS 12L70-730 RWT M	27	3000	3681	136
	IS 12L70-740 RWT M	27	4000	4026	149
	IS 12L70-730 SC M	27	3000	3637	134
	IS 12L70-740 SC M	27	4000	3978	147
	IS 12L70-730 SR M	27	3000	3526	130
	IS 12L70-740 SR M	27	4000	3857	142
	IS 12L70-730 NR2 M	27	3000	3574	132
	IS 12L70-740 NR2 M	27	4000	3909	144
	IS 12L70-730 TSR M	27	3000	3514	130
	IS 12L70-740 TSR M	27	4000	3844	142
	IS 12L70-730 WR M	27	3000	3633	134
	IS 12L70-740 WR M	27	4000	3974	147
	IS 12L70-730 WS M	27	3000	3514	130
	IS 12L70-740 WS M	27	4000	3844	142
	IS 12L70-730 WSC M	27	3000	3550	131
	IS 12L70-740 WSC M	27	4000	3883	143
	IS 12L85-730 ENR M	33	3000	4254	128

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	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 12L85-740 ENR M	33	4000	4653	141
	IS 12L85-730 ES M	33	3000	4170	126
	IS 12L85-740 ES M	33	4000	4561	138
	IS 12L85-730 EWC M	33	3000	4175	126
	IS 12L85-740 EWC M	33	4000	4566	138
	IS 12L85-730 EWR M	33	3000	4208	127
	IS 12L85-740 EWR M	33	4000	4602	139
	IS 12L85-730 EWS M	33	3000	4081	123
	IS 12L85-740 EWS M	33	4000	4464	135
	IS 12L85-730 IVS M	33	3000	4264	129
	IS 12L85-740 IVS M	33	4000	4664	141
	IS 12L85-730 NR M	33	3000	4245	128
	IS 12L85-740 NR M	33	4000	4643	140
	IS 12L85-730 RC M	33	3000	4353	131
	IS 12L85-740 RC M	33	4000	4761	144
	IS 12L85-730 RWT M	33	3000	4343	131
	IS 12L85-740 RWT M	33	4000	4751	143
*	IS 12L85-730 SC M	33	3000	4292	130
	IS 12L85-740 SC M	33	4000	4694	142
	IS 12L85-730 SR M	33	3000	4161	126
	IS 12L85-740 SR M	33	4000	4551	137
	IS 12L85-730 NR2 M	33	3000	4217	127
	IS 12L85-740 NR2 M	33	4000	4612	139
	IS 12L85-730 TSR M	33	3000	4147	125
	IS 12L85-740 TSR M	33	4000	4535	137
	IS 12L85-730 WR M	33	3000	4287	129
	IS 12L85-740 WR M	33	4000	4689	142
	IS 12L85-730 WS M	33	3000	4147	125
	IS 12L85-740 WS M	33	4000	4535	137
	IS 12L85-730 WSC M	33	3000	4189	126
	IS 12L85-740 WSC M	33	4000	4582	138
	IS 12L105-730 ENR M	41	3000	5059	123
	IS 12L105-740 ENR M	41	4000	5533	134
	IS 12L105-730 ES M	41	3000	4959	120
	IS 12L105-740 ES M	41	4000	5424	132
	IS 12L105-730 EWC M	41	3000	4964	121
	IS 12L105-740 EWC M	41	4000	5430	132
	IS 12L105-730 EWR M	41	3000	5003	122
	IS 12L105-740 EWR M	41	4000	5472	133
	IS 12L105-730 EWS M	41	3000	4853	118
	IS 12L105-740 EWS M	41	4000	5308	129
	IS 12L105-730 IVS M	41	3000	5070	123
	IS 12L105-740 IVS M	41	4000	5545	135
	IS 12L105-730 NR M	41	3000	5048	123
	IS 12L105-740 NR M	41	4000	5521	134
	IS 12L105-730 RC M	41	3000	5176	126
	IS 12L105-740 RC M	41	4000	5661	138
	IS 12L105-730 RWT M	41	3000	5165	125
	IS 12L105-740 RWT M	41	4000	5649	137

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	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 12L105-730 SC M	41	3000	5104	124
	IS 12L105-740 SC M	41	4000	5582	136
	IS 12L105-730 SR M	41	3000	4948	120
	IS 12L105-740 SR M	41	4000	5411	131
	IS 12L105-730 NR2 M	41	3000	5014	122
	IS 12L105-740 NR2 M	41	4000	5485	133
	IS 12L105-730 TSR M	41	3000	4931	120
	IS 12L105-740 TSR M	41	4000	5393	131
	IS 12L105-730 WR M	41	3000	5098	124
	IS 12L105-740 WR M	41	4000	5576	136
	IS 12L105-730 WS M	41	3000	4931	120
	IS 12L105-740 WS M	41	4000	5393	131
	IS 12L105-730 WSC M	41	3000	4981	121
	IS 12L105-740 WSC M	41	4000	5448	132
	IS 24L35-730 ENR M	26	3000	3934	151
	IS 24L35-740 ENR M	26	4000	4303	165
	IS 24L35-730 ES M	26	3000	3865	148
*	IS 24L35-740 ES M	26	4000	4228	162
	IS 24L35-730 EWC M	26	3000	3870	148
	IS 24L35-740 EWC M	26	4000	4232	162
	IS 24L35-730 EWR M	26	3000	3895	149
	IS 24L35-740 EWR M	26	4000	4260	163
	IS 24L35-730 EWS M	26	3000	3797	146
	IS 24L35-740 EWS M	26	4000	4153	159
	IS 24L35-730 IVS M	26	3000	3942	151
	IS 24L35-740 IVS M	26	4000	4312	165
	IS 24L35-730 MR M	26	3000	3942	151
	IS 24L35-740 MR M	26	4000	4312	165
	IS 24L35-730 NR M	26	3000	3925	150
	IS 24L35-740 NR M	26	4000	4293	165
	IS 24L35-730 RC M	26	3000	4015	154
	IS 24L35-740 RC M	26	4000	4391	168
	IS 24L35-730 RWT M	26	3000	4006	154
	IS 24L35-740 RWT M	26	4000	4382	168
	IS 24L35-730 SC M	26	3000	3964	152
	IS 24L35-740 SC M	26	4000	4335	166
	IS 24L35-730 SR M	26	3000	3861	148
	IS 24L35-740 SR M	26	4000	4223	162
	IS 24L35-730 NR2 M	26	3000	3904	150
	IS 24L35-740 NR2 M	26	4000	4270	164
	IS 24L35-730 TSR M	26	3000	3848	148
	IS 24L35-740 TSR M	26	4000	4209	161
	IS 24L35-730 WR M	26	3000	3959	152
	IS 24L35-740 WR M	26	4000	4331	166
	IS 24L35-730 WS M	26	3000	3848	148
	IS 24L35-740 WS M	26	4000	4209	161
	IS 24L35-730 WSC M	26	3000	3882	149
	IS 24L35-740 WSC M	26	4000	4246	163
	IS 24L50-730 ENR M	37	3000	5416	146

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Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
	[W]	[K]	[lm]	[lm/W]
IS 24L50-740 ENR M	37	4000	5924	160
IS 24L50-730 ES M	37	3000	5322	143
IS 24L50-740 ES M	37	4000	5821	157
IS 24L50-730 EWC M	37	3000	5328	144
IS 24L50-740 EWC M	37	4000	5827	157
IS 24L50-730 EWR M	37	3000	5363	144
IS 24L50-740 EWR M	37	4000	5866	158
IS 24L50-730 EWS M	37	3000	5228	141
IS 24L50-740 EWS M	37	4000	5718	154
IS 24L50-730 IVS M	37	3000	5428	146
IS 24L50-740 IVS M	37	4000	5937	160
IS 24L50-730 MR M	37	3000	5428	146
IS 24L50-740 MR M	37	4000	5937	160
IS 24L50-730 NR M	37	3000	5404	146
IS 24L50-740 NR M	37	4000	5911	159
IS 24L50-730 RC M	37	3000	5528	149
IS 24L50-740 RC M	37	4000	6046	163
IS 24L50-730 RWT M	37	3000	5516	149
IS 24L50-740 RWT M	37	4000	6033	163
IS 24L50-730 SC M	37	3000	5457	147
IS 24L50-740 SC M	37	4000	5969	161
IS 24L50-730 SR M	37	3000	5316	143
IS 24L50-740 SR M	37	4000	5814	157
IS 24L50-730 NR2 M	37	3000	5375	145
IS 24L50-740 NR2 M	37	4000	5879	158
IS 24L50-730 TSR M	37	3000	5298	143
IS 24L50-740 TSR M	37	4000	5795	156
IS 24L50-730 WR M	37	3000	5452	147
IS 24L50-740 WR M	37	4000	5963	161
IS 24L50-730 WS M	37	3000	5298	143
IS 24L50-740 WS M	37	4000	5795	156
IS 24L50-730 WSC M	37	3000	5346	144
IS 24L50-740 WSC M	37	4000	5847	158
IS 24L70-730 ENR M	52	3000	7267	139
IS 24L70-740 ENR M	52	4000	7948	152
IS 24L70-730 ES M	52	3000	7141	137
IS 24L70-740 ES M	52	4000	7810	150
IS 24L70-730 EWC M	52	3000	7149	137
IS 24L70-740 EWC M	52	4000	7819	150
IS 24L70-730 EWR M	52	3000	7196	138
IS 24L70-740 EWR M	52	4000	7871	151
IS 24L70-730 EWS M	52	3000	7014	134
IS 24L70-740 EWS M	52	4000	7672	147
IS 24L70-730 IVS M	52	3000	7283	140
IS 24L70-740 IVS M	52	4000	7966	153
IS 24L70-730 MR M	52	3000	7283	140
IS 24L70-740 MR M	52	4000	7966	153
* IS 24L70-730 NR M	52	3000	7251	139
IS 24L70-740 NR M	52	4000	7931	152

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Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
	[W]	[K]	[lm]	[lm/W]
IS 24L70-730 RC M	52	3000	7417	142
IS 24L70-740 RC M	52	4000	8113	156
IS 24L70-730 RWT M	52	3000	7401	142
IS 24L70-740 RWT M	52	4000	8095	155
IS 24L70-730 SC M	52	3000	7322	140
IS 24L70-740 SC M	52	4000	8009	154
IS 24L70-730 SR M	52	3000	7133	137
IS 24L70-740 SR M	52	4000	7802	150
IS 24L70-730 NR2 M	52	3000	7212	138
IS 24L70-740 NR2 M	52	4000	7888	151
IS 24L70-730 TSR M	52	3000	7109	136
IS 24L70-740 TSR M	52	4000	7776	149
IS 24L70-730 WR M	52	3000	7315	140
IS 24L70-740 WR M	52	4000	8000	153
IS 24L70-730 WS M	52	3000	7109	136
IS 24L70-740 WS M	52	4000	7776	149
IS 24L70-730 WSC M	52	3000	7172	137
IS 24L70-740 WSC M	52	4000	7845	150
IS 24L85-730 ENR M	64	3000	8557	133
IS 24L85-740 ENR M	64	4000	9360	146
IS 24L85-730 ES M	64	3000	8409	131
IS 24L85-740 ES M	64	4000	9197	143
IS 24L85-730 EWC M	64	3000	8418	131
IS 24L85-740 EWC M	64	4000	9207	143
IS 24L85-730 EWR M	64	3000	8474	132
IS 24L85-740 EWR M	64	4000	9268	144
IS 24L85-730 EWS M	64	3000	8260	129
IS 24L85-740 EWS M	64	4000	9034	141
IS 24L85-730 IVS M	64	3000	8576	134
IS 24L85-740 IVS M	64	4000	9380	146
IS 24L85-730 MR M	64	3000	8576	134
IS 24L85-740 MR M	64	4000	9380	146
IS 24L85-730 NR M	64	3000	8539	133
IS 24L85-740 NR M	64	4000	9339	145
IS 24L85-730 RC M	64	3000	8734	136
IS 24L85-740 RC M	64	4000	9553	149
IS 24L85-730 RWT M	64	3000	8716	136
IS 24L85-740 RWT M	64	4000	9533	148
IS 24L85-730 SC M	64	3000	8623	134
IS 24L85-740 SC M	64	4000	9431	147
IS 24L85-730 SR M	64	3000	8399	131
IS 24L85-740 SR M	64	4000	9187	143
IS 24L85-730 NR2 M	64	3000	8492	132
IS 24L85-740 NR2 M	64	4000	9288	145
IS 24L85-730 TSR M	64	3000	8371	130
IS 24L85-740 TSR M	64	4000	9156	143
IS 24L85-730 WR M	64	3000	8613	134
IS 24L85-740 WR M	64	4000	9421	147
IS 24L85-730 WS M	64	3000	8371	130

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	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 24L85-740 WS M	64	4000	9156	143
	IS 24L85-730 WSC M	64	3000	8446	131
	IS 24L85-740 WSC M	64	4000	9238	144
	IS 24L105-730 ENR M	79	3000	10143	128
	IS 24L105-740 ENR M	79	4000	11094	140
	IS 24L105-730 ES M	79	3000	9967	126
	IS 24L105-740 ES M	79	4000	10901	137
	IS 24L105-730 EWC M	79	3000	9978	126
	IS 24L105-740 EWC M	79	4000	10913	138
	IS 24L105-730 EWR M	79	3000	10044	127
	IS 24L105-740 EWR M	79	4000	10986	139
	IS 24L105-730 EWS M	79	3000	9790	123
	IS 24L105-740 EWS M	79	4000	10708	135
	IS 24L105-730 IVS M	79	3000	10165	128
	IS 24L105-740 IVS M	79	4000	11118	140
	IS 24L105-730 MR M	79	3000	10165	128
	IS 24L105-740 MR M	79	4000	11118	140
	IS 24L105-730 NR M	79	3000	10121	128
	IS 24L105-740 NR M	79	4000	11070	140
	IS 24L105-730 RC M	79	3000	10353	131
	IS 24L105-740 RC M	79	4000	11323	143
	IS 24L105-730 RWT M	79	3000	10331	130
	IS 24L105-740 RWT M	79	4000	11299	143
	IS 24L105-730 SC M	79	3000	10220	129
	IS 24L105-740 SC M	79	4000	11178	141
	IS 24L105-730 SR M	79	3000	9956	126
	IS 24L105-740 SR M	79	4000	10889	137
	IS 24L105-730 NR2 M	79	3000	10066	127
	IS 24L105-740 NR2 M	79	4000	11010	139
	IS 24L105-730 TSR M	79	3000	9923	125
	IS 24L105-740 TSR M	79	4000	10853	137
	IS 24L105-730 WR M	79	3000	10209	129
	IS 24L105-740 WR M	79	4000	11166	141
	IS 24L105-730 WS M	79	3000	9923	125
*	IS 24L105-740 WS M	79	4000	10853	137
	IS 24L105-730 WSC M	79	3000	10011	126
	IS 24L105-740 WSC M	79	4000	10949	138
	IS 36L35-730 ENR M	39	3000	5889	151
	IS 36L35-740 ENR M	39	4000	6441	165
	IS 36L35-730 ES M	39	3000	5786	148
	IS 36L35-740 ES M	39	4000	6329	162
	IS 36L35-730 EWC M	39	3000	5793	148
	IS 36L35-740 EWC M	39	4000	6336	162
	IS 36L35-730 EWR M	39	3000	5831	149
	IS 36L35-740 EWR M	39	4000	6378	163
*	IS 36L35-730 EWS M	39	3000	5684	145
	IS 36L35-740 EWS M	39	4000	6217	159
	IS 36L35-730 IVS M	39	3000	5902	151
	IS 36L35-740 IVS M	39	4000	6455	165

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Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
	[W]	[K]	[lm]	[lm/W]
IS 36L35-730 MR M	39	3000	5902	151
IS 36L35-740 MR M	39	4000	6455	165
IS 36L35-730 NR M	39	3000	5876	150
IS 36L35-740 NR M	39	4000	6427	164
IS 36L35-730 RC M	39	3000	6010	154
IS 36L35-740 RC M	39	4000	6574	168
IS 36L35-730 RWT M	39	3000	5998	153
IS 36L35-740 RWT M	39	4000	6560	168
IS 36L35-730 SC M	39	3000	5934	152
IS 36L35-740 SC M	39	4000	6490	166
IS 36L35-730 SR M	39	3000	5780	148
IS 36L35-740 SR M	39	4000	6322	162
IS 36L35-730 NR2 M	39	3000	5844	149
IS 36L35-740 NR2 M	39	4000	6392	163
IS 36L35-730 TSR M	39	3000	5761	147
IS 36L35-740 TSR M	39	4000	6301	161
IS 36L35-730 WR M	39	3000	5927	151
IS 36L35-740 WR M	39	4000	6483	166
IS 36L35-730 WS M	39	3000	5761	147
IS 36L35-740 WS M	39	4000	6301	161
IS 36L35-730 WSC M	39	3000	5812	149
IS 36L35-740 WSC M	39	4000	6357	163
IS 36L50-730 ENR M	55	3000	8101	147
IS 36L50-740 ENR M	55	4000	8860	161
IS 36L50-730 ES M	55	3000	7960	144
IS 36L50-740 ES M	55	4000	8706	158
IS 36L50-730 EWC M	55	3000	7969	144
IS 36L50-740 EWC M	55	4000	8716	158
IS 36L50-730 EWR M	55	3000	8022	145
IS 36L50-740 EWR M	55	4000	8774	159
IS 36L50-730 EWS M	55	3000	7819	142
IS 36L50-740 EWS M	55	4000	8552	155
IS 36L50-730 IVS M	55	3000	8119	147
IS 36L50-740 IVS M	55	4000	8880	161
IS 36L50-730 MR M	55	3000	8119	147
IS 36L50-740 MR M	55	4000	8880	161
IS 36L50-730 NR M	55	3000	8083	146
IS 36L50-740 NR M	55	4000	8841	160
IS 36L50-730 RC M	55	3000	8268	150
IS 36L50-740 RC M	55	4000	9043	164
IS 36L50-730 RWT M	55	3000	8251	150
IS 36L50-740 RWT M	55	4000	9024	164
IS 36L50-730 SC M	55	3000	8163	148
IS 36L50-740 SC M	55	4000	8928	162
IS 36L50-730 SR M	55	3000	7951	144
IS 36L50-740 SR M	55	4000	8697	158
IS 36L50-730 NR2 M	55	3000	8039	146
IS 36L50-740 NR2 M	55	4000	8793	159
IS 36L50-730 TSR M	55	3000	7925	144

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	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 36L50-740 TSR M	55	4000	8668	157
	IS 36L50-730 WR M	55	3000	8154	148
	IS 36L50-740 WR M	55	4000	8918	162
	IS 36L50-730 WS M	55	3000	7925	144
	IS 36L50-740 WS M	55	4000	8668	157
	IS 36L50-730 WSC M	55	3000	7995	145
	IS 36L50-740 WSC M	55	4000	8745	159
	IS 36L70-730 ENR M	76	3000	10847	142
	IS 36L70-740 ENR M	76	4000	11864	156
	IS 36L70-730 ES M	76	3000	10658	140
	IS 36L70-740 ES M	76	4000	11657	153
	IS 36L70-730 EWC M	76	3000	10670	140
	IS 36L70-740 EWC M	76	4000	11670	153
	IS 36L70-730 EWR M	76	3000	10741	141
	IS 36L70-740 EWR M	76	4000	11748	154
	IS 36L70-730 EWS M	76	3000	10469	137
	IS 36L70-740 EWS M	76	4000	11451	150
	IS 36L70-730 IVS M	76	3000	10870	143
	IS 36L70-740 IVS M	76	4000	11889	156
	IS 36L70-730 MR M	76	3000	10870	143
	IS 36L70-740 MR M	76	4000	11889	156
	IS 36L70-730 NR M	76	3000	10823	142
	IS 36L70-740 NR M	76	4000	11838	155
	IS 36L70-730 RC M	76	3000	11071	145
	IS 36L70-740 RC M	76	4000	12109	159
	IS 36L70-730 RWT M	76	3000	11047	145
	IS 36L70-740 RWT M	76	4000	12083	158
	IS 36L70-730 SC M	76	3000	10929	143
	IS 36L70-740 SC M	76	4000	11954	157
	IS 36L70-730 SR M	76	3000	10646	140
	IS 36L70-740 SR M	76	4000	11644	153
	IS 36L70-730 NR2 M	76	3000	10764	141
	IS 36L70-740 NR2 M	76	4000	11773	154
	IS 36L70-730 TSR M	76	3000	10611	139
	IS 36L70-740 TSR M	76	4000	11606	152
*	IS 36L70-730 WR M	76	3000	10917	143
	IS 36L70-740 WR M	76	4000	11941	157
	IS 36L70-730 WS M	76	3000	10611	139
	IS 36L70-740 WS M	76	4000	11606	152
	IS 36L70-730 WSC M	76	3000	10705	140
	IS 36L70-740 WSC M	76	4000	11709	154
	IS 36L85-730 ENR M	94	3000	12740	135
	IS 36L85-740 ENR M	94	4000	13935	148
	IS 36L85-730 ES M	94	3000	12519	133
	IS 36L85-740 ES M	94	4000	13692	145
	IS 36L85-730 EWC M	94	3000	12532	133
	IS 36L85-740 EWC M	94	4000	13707	145
	IS 36L85-730 EWR M	94	3000	12616	134
	IS 36L85-740 EWR M	94	4000	13798	146

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	Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
	IS 36L85-730 EWS M	94	3000	12297	130
	IS 36L85-740 EWS M	94	4000	13450	143
	IS 36L85-730 IVS M	94	3000	12768	135
	IS 36L85-740 IVS M	94	4000	13965	148
	IS 36L85-730 MR M	94	3000	12768	135
	IS 36L85-740 MR M	94	4000	13965	148
	IS 36L85-730 NR M	94	3000	12712	135
	IS 36L85-740 NR M	94	4000	13904	147
	IS 36L85-730 RC M	94	3000	13003	138
	IS 36L85-740 RC M	94	4000	14222	151
	IS 36L85-730 RWT M	94	3000	12976	138
	IS 36L85-740 RWT M	94	4000	14192	150
	IS 36L85-730 SC M	94	3000	12837	136
	IS 36L85-740 SC M	94	4000	14041	149
	IS 36L85-730 SR M	94	3000	12505	133
	IS 36L85-740 SR M	94	4000	13677	145
	IS 36L85-730 NR2 M	94	3000	12643	134
	IS 36L85-740 NR2 M	94	4000	13829	147
	IS 36L85-730 TSR M	94	3000	12463	132
	IS 36L85-740 TSR M	94	4000	13632	145
	IS 36L85-730 WR M	94	3000	12823	136
	IS 36L85-740 WR M	94	4000	14025	149
	IS 36L85-730 WS M	94	3000	12463	132
	IS 36L85-740 WS M	94	4000	13632	145
	IS 36L85-730 WSC M	94	3000	12574	133
	IS 36L85-740 WSC M	94	4000	13753	146
	IS 36L105-730 ENR M	117	3000	15052	128
	IS 36L105-740 ENR M	117	4000	16463	140
	IS 36L105-730 ES M	117	3000	14790	126
	IS 36L105-740 ES M	117	4000	16176	138
	IS 36L105-730 EWC M	117	3000	14806	126
	IS 36L105-740 EWC M	117	4000	16194	138
	IS 36L105-730 EWR M	117	3000	14904	127
	IS 36L105-740 EWR M	117	4000	16302	139
	IS 36L105-730 EWS M	117	3000	14528	124
	IS 36L105-740 EWS M	117	4000	15890	135
	IS 36L105-730 IVS M	117	3000	15084	128
	IS 36L105-740 IVS M	117	4000	16498	141
	IS 36L105-730 MR M	117	3000	15084	128
	IS 36L105-740 MR M	117	4000	16498	141
	IS 36L105-730 NR M	117	3000	15019	128
	IS 36L105-740 NR M	117	4000	16427	140
	IS 36L105-730 RC M	117	3000	15362	131
*	IS 36L105-740 RC M	117	4000	16803	143
	IS 36L105-730 RWT M	117	3000	15330	131
	IS 36L105-740 RWT M	117	4000	16767	143
	IS 36L105-730 SC M	117	3000	15166	129
	IS 36L105-740 SC M	117	4000	16588	141
	IS 36L105-730 SR M	117	3000	14773	126

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Type	Rated input power	CCT	Rated luminous flux	Rated efficacy
	[W]	[K]	[lm]	[lm/W]
IS 36L105-740 SR M	117	4000	16158	138
IS 36L105-730 NR2 M	117	3000	14937	127
IS 36L105-740 NR2 M	117	4000	16337	139
IS 36L105-730 TSR M	117	3000	14724	125
IS 36L105-740 TSR M	117	4000	16105	137
IS 36L105-730 WR M	117	3000	15150	129
IS 36L105-740 WR M	117	4000	16570	141
IS 36L105-730 WS M	117	3000	14724	125
IS 36L105-740 WS M	117	4000	16105	137
IS 36L105-730 WSC M	117	3000	14855	126
IS 36L105-740 WSC M	117	4000	16248	138

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