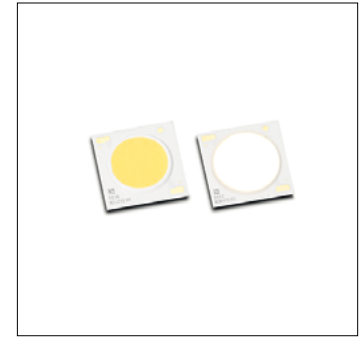


## LUGA Shop Gen. 7 – up to 5500 lm

### Technical Notes

- LED module for integration into luminaires
- Dimensions: 19x19 mm
- Light emitting surface (LES): Ø 14 mm
- Use of external LED constant current driver



### Electrical Characteristics

at  $t_p = 65\text{ °C}$

Type	Typ. voltage DC				Typ. power consumption			
	350 mA V	500 mA V	700 mA V	1050 mA V	350 mA W	500 mA W	700 mA W	1050 mA W
DMS125***W	33.8	34.9	36.0	–	11.8	17.5	25.2	–
DMS126***W	33.3	34.2	35.4	36.9	11.7	17.1	24.8	38.7
DMS128***W	32.7	33.4	34.3	35.6	11.4	16.7	24.0	37.4

Voltage and power tolerance:  $\pm 10\%$

### Maximum Ratings

Exceeding the maximum ratings can lead to reduction of service life or destruction of the modules.

Type	Operating current mA	Operation temperature range at $t_c$ point			Ambient temperature range		Storage temperature range		Max. allowed repetitive peak current mA
		°C min.	°C max.	at LES surface °C max.	°C min.	°C max.	°C min.	°C max.	
DMS125***W	350	-40	+120	+180	-40	+40	-40	+105	1000
	500		+115						
	700		+110						
DMS126***W	< 500	-40	+120	+180	-40	+40	-40	+105	1200
	700		+115						
	1050		+100						
DMS128***W	< 500	-40	+120	+180	-40	+40	-40	+105	1600
	700		+115						
	1050		+105						

### Operating Life

at  $t_p = 65\text{ °C}$

Lumen maintenance	350 mA in hours	500 mA in hours	700 mA in hours	350 mA in hours	500 mA in hours	700 mA in hours	1050 mA in hours
	<b>DMS125***W (at IF)</b>			<b>DMS126***W (at IF)</b>			
L90/B10	90,000	83,000	74,000	95,000	91,000	86,000	77,000
L80/B10	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
L70/B10	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
	<b>DMS128***W (at IF)</b>						
L90/B10	–	–	–	95,000	90,000	83,000	72,000
L80/B10	–	–	–	>100,000	>100,000	>100,000	>100,000
L70/B10	–	–	–	>100,000	>100,000	>100,000	>100,000

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## LUGA Shop Gen. 7 – up to 5500 lm

### Optical Characteristics

at tp = 65 °C

Type	Ref. No.	Colour	Correlated colour temperature* K	Typ. luminous flux** and efficiency at								Typ. beam angle (°)	Typ. CRI Ra	Photo-metric code
				350 mA		500 mA		700 mA		1050 mA				
				lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
DMS125C27W	<b>567244</b>	warm white	2700	1840	156	2515	144	3345	133	—	—	120	82	827/249
DMS125C30W	<b>567245</b>	warm white	3000	1985	168	2715	156	3605	143	—	—	120	85	830/249
DMS125C35W	<b>567248</b>	neutral white	3500	2010	170	2750	158	3650	145	—	—	120	85	835/249
DMS125C40W	<b>567249</b>	neutral white	4000	2055	174	2805	161	3730	148	—	—	120	85	840/249
DMS125C50W	<b>567250</b>	cool white	5000	2070	175	2830	162	3760	149	—	—	120	85	850/249
DMS126C27W	<b>567256</b>	warm white	2700	1865	160	2565	150	3430	138	4800	124	120	82	827/249
DMS126C30W	<b>567257</b>	warm white	3000	2010	172	2760	161	3695	149	5165	133	120	85	830/249
DMS126C30WB	<b>567258</b>	warm white	3000 (below BBL)	1910	164	2620	153	3510	142	4910	127	120	85	830/249
DMS126C35W	<b>567261</b>	neutral white	3500	2040	175	2800	164	3745	151	5240	135	120	85	835/249
DMS126C40W	<b>567262</b>	neutral white	4000	2075	178	2850	167	3815	154	5330	138	120	85	840/249
DMS126C40WB	<b>567263</b>	neutral white	4000 (below BBL)	1990	171	2730	160	3655	147	5110	132	120	85	840/249
DMS126C50W	<b>567264</b>	cool white	5000	2095	180	2880	168	3850	155	5385	139	120	85	850/249
DMS128C27W	<b>567270</b>	warm white	2700	1885	165	2595	155	3480	145	4880	131	120	82	827/249
DMS128C30W	<b>567271</b>	warm white	3000	2025	177	2790	167	3740	156	5250	140	120	85	830/249
DMS128C30WB	<b>567272</b>	warm white	3000 (below BBL)	1925	168	2650	159	3550	148	4980	133	120	85	830/249
DMS128C35W	<b>567275</b>	neutral white	3500	2055	180	2830	169	3790	158	5320	142	120	85	835/249
DMS128C40W	<b>567276</b>	neutral white	4000	2100	183	2890	173	3875	161	5430	145	120	85	840/249
DMS128C40WB	<b>567277</b>	neutral white	4000 (below BBL)	2005	175	2760	165	3700	154	5190	139	120	85	840/249
DMS128C50W	<b>567278</b>	cool white	5000	2115	185	2915	175	3905	163	5475	146	120	85	850/249

\* Colour tolerance: 2 MacAdam | \*\* Production tolerance of luminous flux and efficiency: ± 10 % | Min. CRI Ra: > 80

## LUGA Shop Gen. 7 – up to 5500 lm Pearl White / Clear White

### Optical Characteristics

at tp = 65 °C

Type	Ref. No.	Colour	Correl. colour temperature* K	Typ. luminous flux** and efficiency at								Typ. beam angle (°)	Typ. CRI Ra	Photo-metric code
				350 mA		500 mA		700 mA		1050 mA				
				lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
DMS125C31WP	<b>567246</b>	pearl white	3100	1935	164	2645	152	3515	139	—	—	120	85	831/249
DMS125C32WC	<b>567247</b>	clear white	3200	1945	164	2655	152	3530	140	—	—	120	85	832/249
DMS125S31WP	<b>567253</b>	pearl white	3100	1615	137	2205	126	2930	116	—	—	120	95	931/249
DMS125S32WC	<b>567254</b>	clear white	3200	1625	137	2215	127	2945	117	—	—	120	95	932/249
DMS126C31WP	<b>567259</b>	pearl white	3100	1960	168	2690	157	3605	145	5035	130	120	85	831/249
DMS126C32WC	<b>567260</b>	clear white	3200	1965	169	2700	158	3615	146	5055	130	120	85	832/249
DMS126S31WP	<b>567267</b>	pearl white	3100	1620	139	2225	130	2980	120	4165	107	120	95	931/249
DMS126S32WC	<b>567268</b>	clear white	3200	1630	140	2240	131	3000	121	4190	108	120	95	932/249
DMS128C31WP	<b>567273</b>	pearl white	3100	1970	172	2715	163	3640	152	5105	137	120	85	831/249
DMS128C32WC	<b>567274</b>	clear white	3200	1985	173	2730	163	3660	152	5135	137	120	85	832/249
DMS128S31WP	<b>567281</b>	pearl white	3100	1650	144	2275	136	3050	127	4275	114	120	95	931/249
DMS128S32WC	<b>567282</b>	clear white	3200	1660	145	2285	137	3065	128	4295	115	120	95	932/249

\* Colour tolerance: 2 MacAdam | \*\* Production tolerance of luminous flux and efficiency: ± 10 % | Min. CRI Ra: > 90 / > 80

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## LUGA Shop Gen. 7 – up to 5500 lm – HiCRI

### Optical Characteristics

at tp = 65 °C

Type	Ref. No.	Colour	Correl. colour temperature* K	Typ. luminous flux** and efficiency at								Typ. beam angle (°)	Typ. CRI Ra	Photo-metric code
				350 mA		500 mA		700 mA		1050 mA				
				lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
DMS125D27W	<b>567251</b>	warm white	2700	1530	129	2090	120	2780	110	–	–	120	95	927/249
DMS125S30W	<b>567252</b>	warm white	3000 (below BBL)	1580	134	2160	124	2870	114	–	–	120	95	930/249
DMS125S40W	<b>567255</b>	neutral white	4000 (below BBL)	1735	147	2365	136	3145	125	–	–	120	95	940/249
DMS126D27W	<b>567265</b>	warm white	2700	1535	132	2110	123	2825	114	3950	102	120	95	927/249
DMS126S30W	<b>567266</b>	warm white	3000 (below BBL)	1600	137	2195	128	2940	119	4110	106	120	95	930/249
DMS126S40W	<b>567269</b>	neutral white	4000 (below BBL)	1750	150	2400	140	3215	130	4495	116	120	95	940/249
DMS128D27W	<b>567279</b>	warm white	2700	1570	137	2160	129	2895	121	4065	109	120	95	927/249
DMS128S30W	<b>567280</b>	warm white	3000 (below BBL)	1625	142	2240	134	3005	125	4210	113	120	95	930/249
DMS128S35W	<b>567283</b>	neutral white	3500 (below BBL)	1720	150	2370	142	3175	132	4455	119	120	95	935/249
DMS128S40W	<b>567284</b>	neutral white	4000 (below BBL)	1780	156	2450	147	3280	137	4600	123	120	95	940/249

\* Colour tolerance: 2 MacAdam | \*\* Production tolerance of luminous flux and efficiency: ± 10 % | Min. CRI Ra: > 90

## LUGA Shop Gen. 7 – up to 2800 lm – Food

### Optical Characteristics

at tp = 65 °C

Type	Ref. No.	Colour	Correl. colour temperature* K	Typ. luminous flux** and efficiency at								Typ. beam angle (°)	Typ. CRI Ra	Photo-metric code
				350 mA		500 mA		700 mA		1050 mA				
				lm	lm/W	lm	lm/W	lm	lm/W	lm	lm/W			
DMS128P19W	<b>567224</b>	"pink effect"	2000	920	80	1270	76	1700	71	2385	64	120	82	820/349
DMS128P40W	<b>567225</b>	"white effect"	4000	1085	95	1495	90	2000	83	2810	75	120	70 (sp. spec: HiGa)	740/349

\* Colour tolerance: 2 MacAdam | \*\* Production tolerance of luminous flux and efficiency: ± 10 %

### Typical Applications

DMS128P19W <b>567224</b> "pink effect"	DMS128P40W <b>567225</b> "white effect"
• Meat	• Meat

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