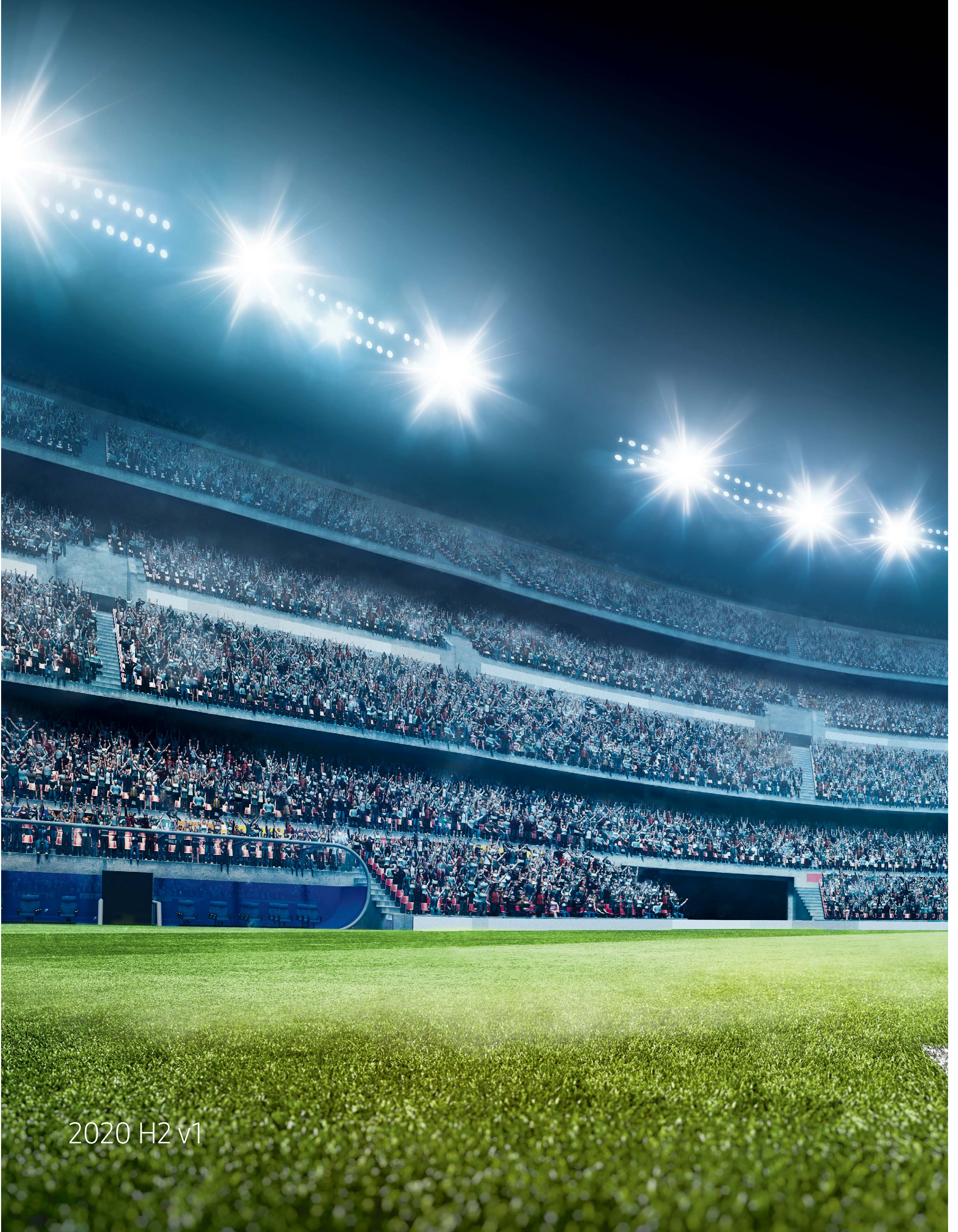


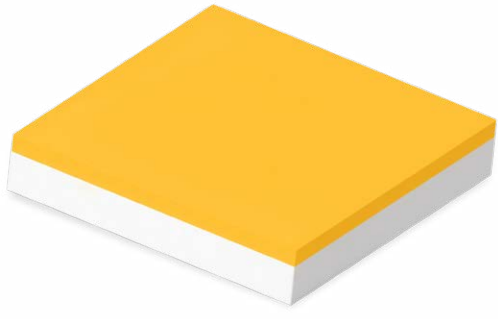
**SAMSUNG**

Specialty Lighting

# Sports Lighting Solutions

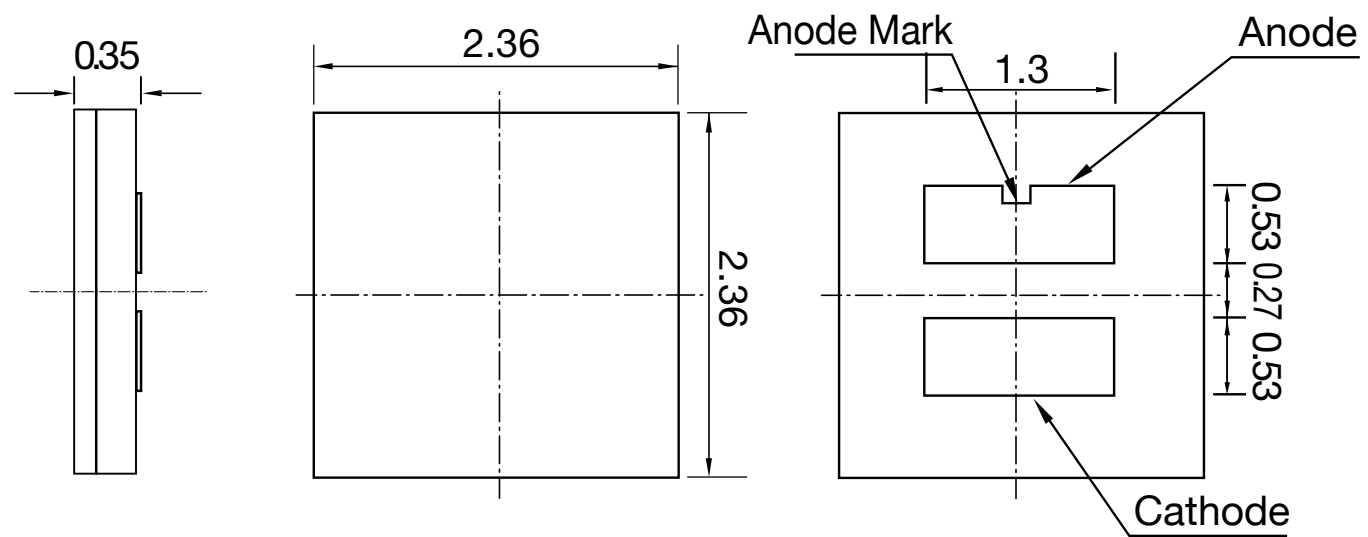


2020 H2 v1



## Compact form factor for high density sports lighting

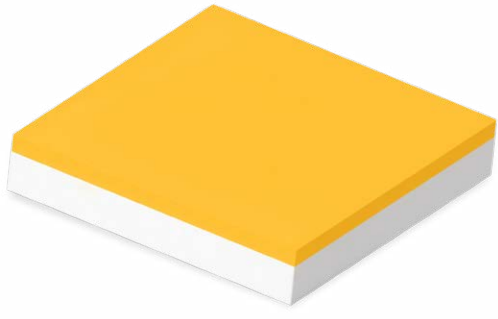
- 3W, 2.75V high power LED
- Beam angle: 120°
- Thermal resistance: 2.0K/W
- Compact footprint: 2.36mm x 2.36mm



[350mA, 85°C]

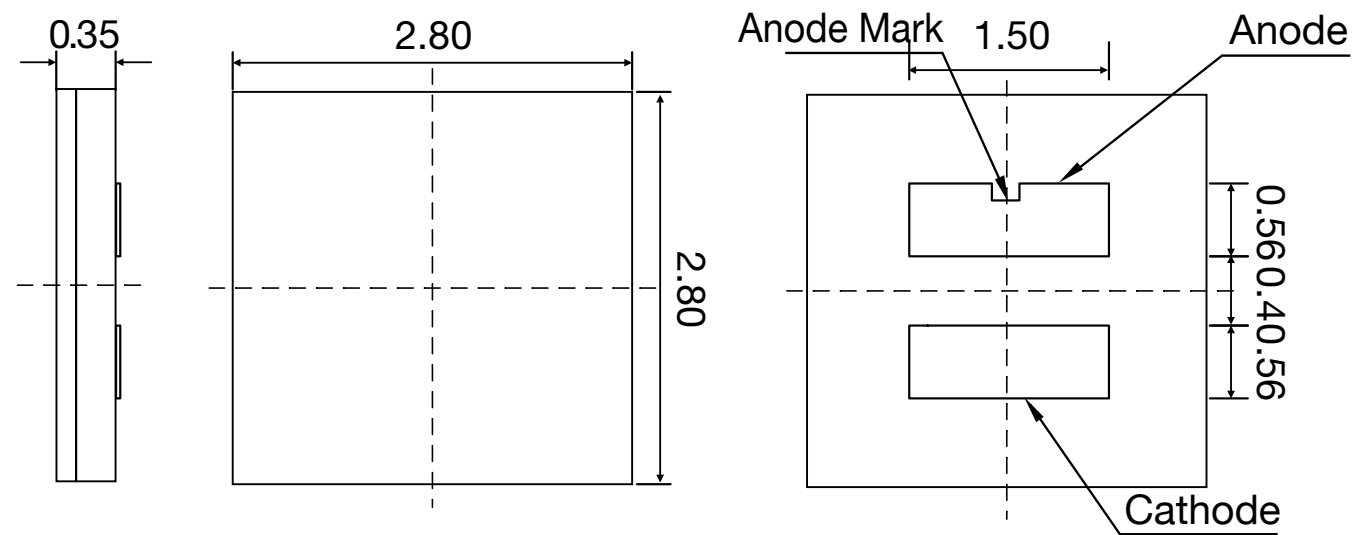
CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
70+	2700	-	SCP7WTF1HEL1W◇M34E	M1, N1, P1	140	170
	3000	-	SCP7VTF1HEL1V◇N34E	N1, P1, Q1	150	180
	3500	-	SCP7UTF1HEL1U◇N34E	N1, P1, Q1	150	180
	4000	-	SCP7TTF1HEL1T◇P34E	P1, Q1, R1	160	190
	5000	-	SCP7RTF1HEL1R◇P34E	P1, Q1, R1	160	190
	5700	-	SCP7QTF1HEL1Q◇P34E	P1, Q1, R1	160	190
	6500	-	SCP7PTF1HEL1P◇N34E	N1, P1, Q1	150	180
80+	2200	-	SCP8YTF1HEL1Y◇H34E	H1, J1, K1	110	140
	2700	-	SCP8WTF1HEL1W◇K34E	K1, M1, N1	130	160
	3000	-	SCP8VTF1HEL1V◇K34E	K1, M1, N1	130	160
	3500	-	SCP8UTF1HEL1U◇M34E	M1, N1, P1	140	170
	4000	-	SCP8TTF1HEL1T◇M34E	M1, N1, P1	140	170
	5000	-	SCP8RTF1HEL1R◇N34E	N1, P1, Q1	150	180
	5700	-	SCP8QTF1HEL1Q◇N34E	N1, P1, Q1	150	180
90+	2700	-	SCP9WTF1HEL1W◇G34E	G1, H1, J1	100	130
	3000	-	SCP9VTF1HEL1V◇G34E	G1, H1, J1	100	130
	3500	-	SCP9UTF1HEL1U◇H34E	H1, J1, K1	110	140
	4000	-	SCP9TTF1HEL1T◇H34E	H1, J1, K1	110	140
	5000	-	SCP9RTF1HEL1R◇H34E	H1, J1, K1	110	140

\* “◇” can be “K” (MacAdam 5-step ellipse bin), “U” (MacAdam 3-step ellipse bin) of the color binning



## Compact form factor for high density sports lighting

- 5W, 2.85V high power LED
- Beam angle: 120°
- Thermal resistance: 2.0K/W
- Compact footprint: 2.8mm x 2.8mm

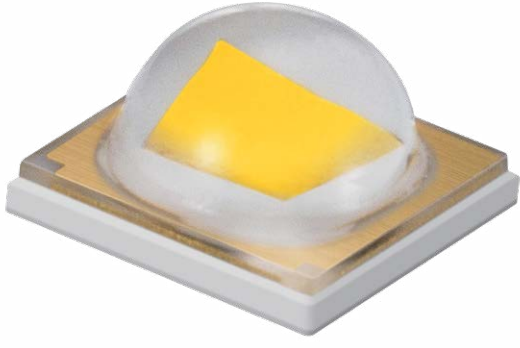


[700mA, 85°C]

CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
70+	2700	-	SCP7WTJ5HEL1W☆MF6E	MB, NB, PB	250	310
	3000	-	SCP7VTJ5HEL1V☆NF6E	NB, PB, QB	270	330
	3500	-	SCP7UTJ5HEL1U☆PF6E	PB, QB, RB	290	350
	4000	-	SCP7TTJ5HEL1T☆QF6E	QB, RB, SB	310	370
	5000	-	SCP7RTJ5HEL1R☆QF6E	QB, RB, SB	310	370
	5700	-	SCP7QTJ5HEL1Q☆QF6E	QB, RB, SB	310	370
	6500	-	SCP7PTJ5HEL1P☆PF6E	PB, QB, RB	290	350
80+	2700	-	SCP8WTJ5HEL1W☆MF6E	MB, NB, PB	250	310
	3000	-	SCP8VTJ5HEL1V☆MF6E	MB, NB, PB	250	310
	3500	-	SCP8UTJ5HEL1U☆NF6E	NB, PB, QB	270	330
	4000	-	SCP8TTJ5HEL1T☆NF6E	NB, PB, QB	270	330
	5000	-	SCP8RTJ5HEL1R☆PF6E	PB, QB, RB	290	350
	5700	-	SCP8QTJ5HEL1Q☆NF6E	NB, PB, QB	270	330
	6500	-	SCP8PTJ5HEL1P☆NF6E	NB, PB, QB	270	330
90+	2700	-	SCP9WTJ5HEL1W☆HF6E	HB, JB, KB	190	250
	3000	-	SCP9VTJ5HEL1V☆HF6E	HB, JB, KB	190	250
	3500	-	SCP9UTJ5HEL1U☆JF6E	JB, KB, MB	210	270
	4000	-	SCP9TTJ5HEL1T☆JF6E	JB, KB, MB	210	270

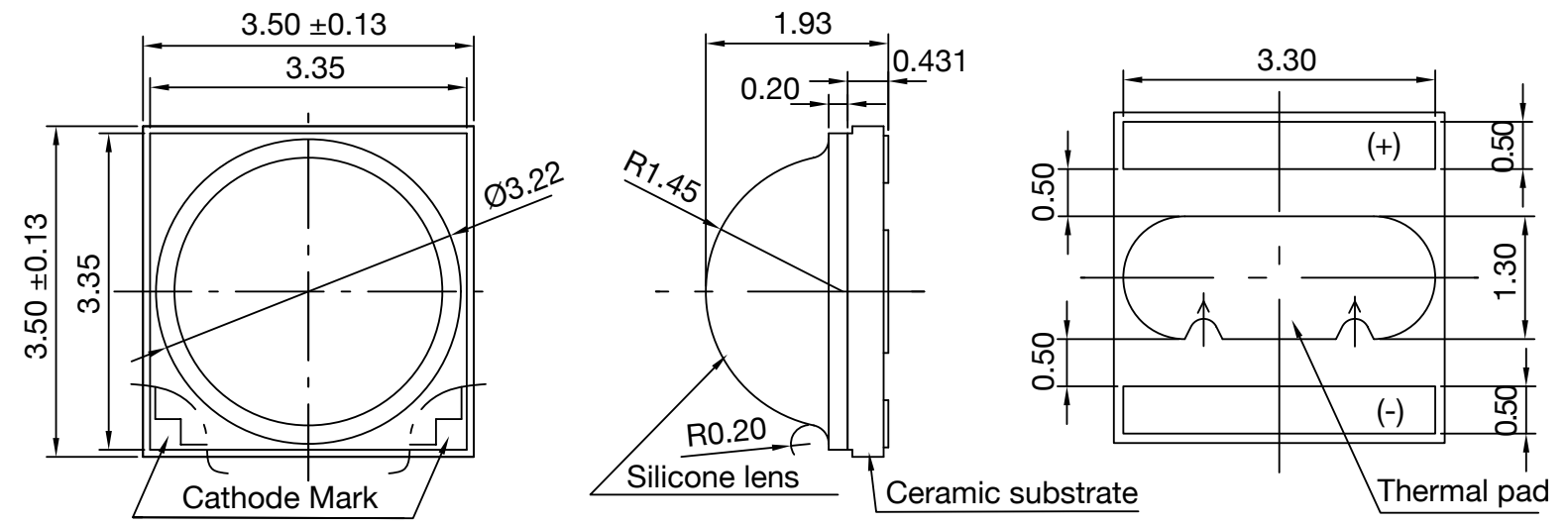
\* “☆” can be “L” (MacAdam 5-step ellipse bin), “U” (MacAdam 3-step ellipse bin) of the color binning

# LH351B



## Cost effective solution for outdoor & directional lighting applications

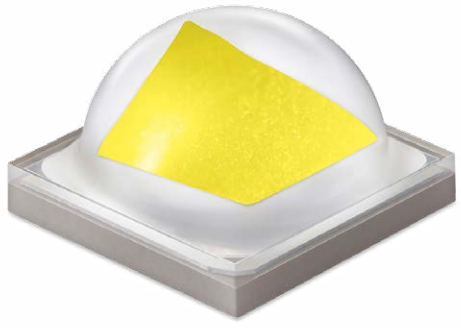
- 3W, 2.7V high power LED
- Beam angle: 120°
- Thermal resistance: 4.2K/W
- Footprint: 3.5mm x 3.5mm



[350mA, 85°C]

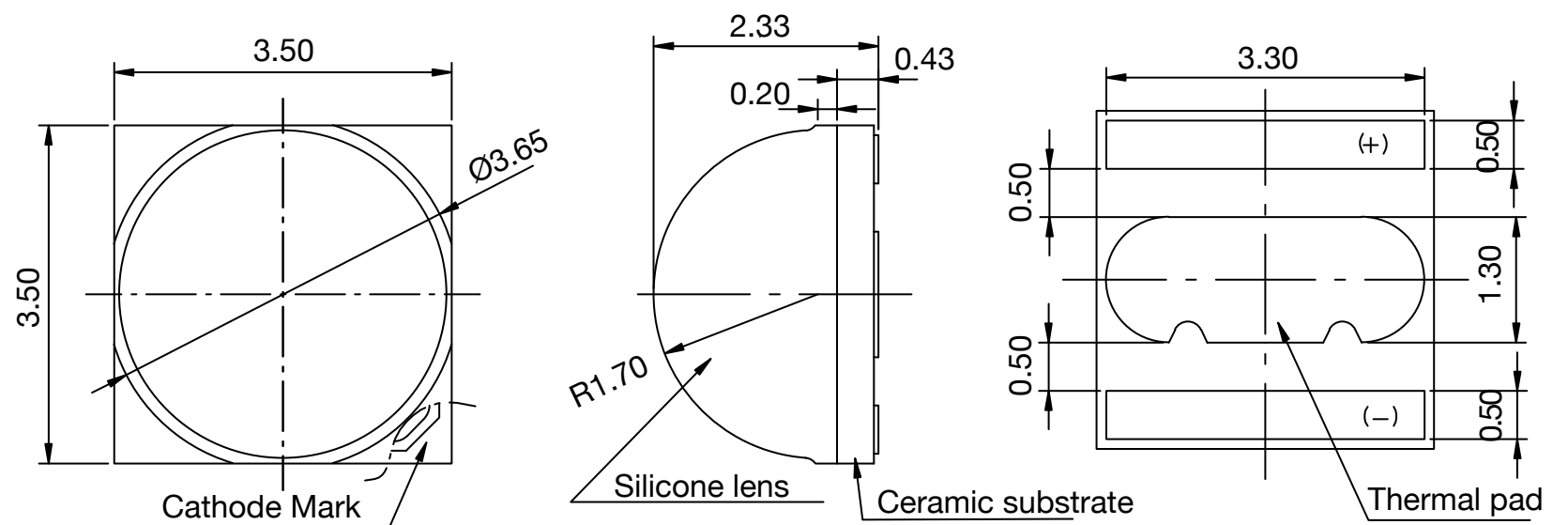
CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
70+	2200	-	SPHWH2L3D30CD4Y0K3	K1, M1, N1	130	160
			SPHWH2L3D30CD4W0K3	K1, M1, N1	130	160
	2700	-	SPHWH2L3D30CD4W0M3	M1, N1, P1	140	170
			SPHWH2L3D30CD4W0N3	N1, P1, Q1	150	180
	3000	-	SPHWH2L3D30CD4V0M3	M1, N1, P1	140	170
			SPHWH2L3D30CD4V0N3	N1, P1, Q1	150	180
	3500	-	SPHWH2L3D30CD4U0K3	K1, M1, N1	130	160
			SPHWH2L3D30CD4U0M3	M1, N1, P1	140	170
			SPHWH2L3D30CD4U0N3	N1, P1, Q1	150	180
	4000	-	SPHWH2L3D30CD4T0N3	N1, P1, Q1	150	180
			SPHWH2L3D30CD4T0P3	P1, Q1, R1	160	190
			SPHWH2L3D30CD4T0Q2	Q1, R1	170	180
			SPHWH2L3D30CD4T0Q3	Q1, R1, S1	170	200
	5000	-	SPHWH2L3D30CD4RTM3	M1, N1, P1	140	170
			SPHWH2L3D30CD4RTN3	N1, P1, Q1	150	180
			SPHWH2L3D30CD4RTP3	P1, Q1, R1	160	190
			SPHWH2L3D30CD4RTQ2	Q1, R1	170	190
			SPHWH2L3D30CD4R0Q3	Q1, R1, S1	170	200
	5700	-	SPHWH2L3D30CD4QTN3	N1, P1, Q1	150	180
			SPHWH2L3D30CD4QTP3	P1, Q1, R1	160	190
SPHWH2L3D30CD4Q0Q2			Q1, R1	170	190	
SPHWH2L3D30CD4Q0Q3			Q1, R1, S1	170	200	
6500	-	SPHWH2L3D30CD4PTN3	N1, P1, Q1	150	180	
		SPHWH2L3D30CD4PTP3	P1, Q1, R1	160	190	

CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
80+	2200	-	SPHWH2L3D30ED4Y0G3	G1, H1, J1	100	130
	2700	-	SPHWH2L3D30ED4W0J3	J1, K1, M1	120	150
			SPHWH2L3D30ED4W0K3	K1, M1, N1	130	160
	3000	-	SPHWH2L3D30ED4V0J3	J1, K1, M1	120	150
			SPHWH2L3D30ED4V0K3	K1, M1, N1	130	160
			SPHWH2L3D30ED4V0M3	M1, N1, P1	140	170
	3500	-	SPHWH2L3D30ED4U0K3	K1, M1, N1	130	160
			SPHWH2L3D30ED4U0M3	M1, N1, P1	140	170
	4000	-	SPHWH2L3D30ED4T0K3	K1, M1, N1	130	160
			SPHWH2L3D30ED4T0M3	M1, N1, P1	140	170
	5000	-	SPHWH2L3D30ED4RTM3	M1, N1, P1	140	170
			SPHWH2L3D30ED4RTN3	N1, P1, Q1	150	180
	5700	-	SPHWH2L3D30ED4QTM3	M1, N1, P1	140	170
	6000	-	SPHWH2L3D30ED4PQK3	K1, M1, N1	130	160
			SPHWH2L3D30ED4PQM3	M1, N1, P1	140	170
	6500	-	SPHWH2L3D30ED4PTK3	K1, M1, N1	130	160
			SPHWH2L3D30ED4PTM3	M1, N1, P1	140	170
	90+	2700	-	SPHWH2L3D30GD4W0F3	F1, G1, H1	90
SPHWH2L3D30GD4W0G3				G1, H1, J1	100	130
3000		-	SPHWH2L3D30GD4V0G3	G1, H1, J1	100	130
			SPHWH2L3D30GD4V0H3	H1, J1, K1	110	140
3500		-	SPHWH2L3D30GD4U0G3	G1, H1, J1	100	130
			SPHWH2L3D30GD4U0H3	H1, J1, K1	110	140
4000		-	SPHWH2L3D30GD4T0J3	J1, K1, M1	120	150
5000		-	SPHWH2L3D30GD4T0K3	K1, M1, N1	130	160



## High performance suitable for stadium/arena lighting applications

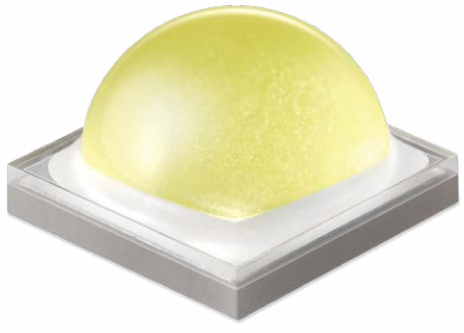
- 5W, 2.85V high power LED
- Beam angle: 128°
- Thermal resistance: 3.0K/W
- Footprint: 3.5mm x 3.5mm



[700mA, 85°C]

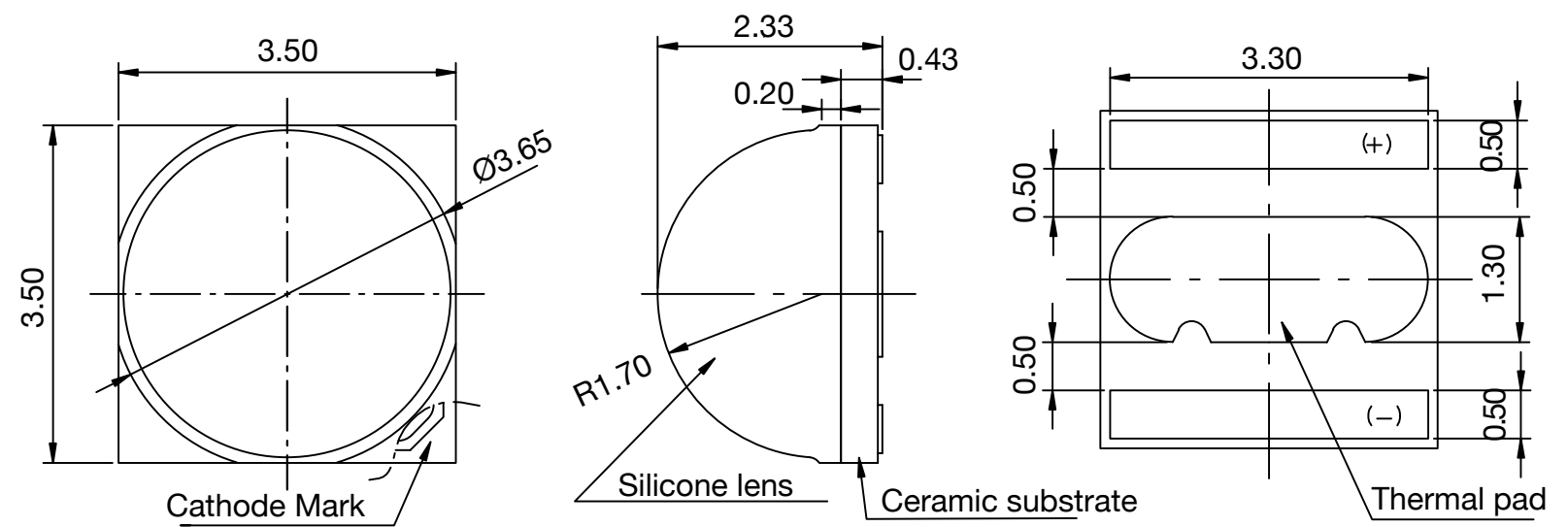
CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
70+	2200	-	SPHWHTL3D50CE4Y0MF	MB, NB, PB	250	310
	2700	-	SPHWHTL3D50CE4W0MF	MB, NB, PB	250	310
			SPHWHTL3D50CE4W0NF	NB, PB, QB	270	330
	3000	-	SPHWHTL3D50CE4V0NF	NB, PB, QB	270	330
			SPHWHTL3D50CE4V0PF	PB, QB, RB	290	350
			SPHWHTL3D50CE4V0QF	QB, RB, SB	310	370
	3500	-	SPHWHTL3D50CE4U0PF	PB, QB, RB	290	350
			SPHWHTL3D50CE4U0QF	QB, RB, SB	310	370
	4000	-	SPHWHTL3D50CE4T0PF	PB, QB, RB	290	350
			SPHWHTL3D50CE4T0QF	QB, RB, SB	310	370
			SPHWHTL3D50CE4T0RF	RB, SB, TB	330	390
	5000	-	SPHWHTL3D50CE4R0PF	PB, QB, RB	290	350
			SPHWHTL3D50CE4R0QF	QB, RB, SB	310	370
			SPHWHTL3D50CE4R0RF	RB, SB, TB	330	390
	5700	-	SPHWHTL3D50CE4Q0PF	PB, QB, RB	310	370
			SPHWHTL3D50CE4Q0QF	QB, RB, SB	310	370
			SPHWHTL3D50CE4Q0RF	RB, SB, TB	330	390
	6500	-	SPHWHTL3D50CE4P0PF	PB, QB, RB	290	350
			SPHWHTL3D50CE4PTQF	QB, RB, SB	310	370
	75+	3000	-	SPHWHTL3D50DE4V0PF	PB, QB, RB	290
3500		-	SPHWHTL3D50DE4U0PF	PB, QB, RB	290	350
4000		-	SPHWHTL3D50DE4T0PF	PB, QB, RB	290	350
5000		-	SPHWHTL3D50DE4RTPF	PB, QB, RB	290	350
			SPHWHTL3D50DE4RTQF	QB, RB, SB	310	370
5700		-	SPHWHTL3D50DE4QTPF	PB, QB, RB	290	350
	SPHWHTL3D50DE4QTQF		QB, RB, SB	310	370	

CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
80+	2700	-	SPHWHTL3D50EE4W0MF	MB, NB, PB	250	310
			SPHWHTL3D50EE4W0NF	NB, PB, QB	270	330
	3000	-	SPHWHTL3D50EE4V0NF	NB, PB, QB	270	330
	3500	-	SPHWHTL3D50EE4U0NF	NB, PB, QB	270	330
	4000	-	SPHWHTL3D50EE4T0MF	MB, NB, PB	250	310
			SPHWHTL3D50EE4T0NF	NB, PB, QB	270	330
	5000	-	SPHWHTL3D50EE4RTNF	NB, PB, QB	270	330
			SPHWHTL3D50EE4RTPF	PB, QB, RB	290	350
	5700	-	SPHWHTL3D50EE4QTNF	NB, PB, QB	270	330
			SPHWHTL3D50EE4QTPF	PB, QB, RB	290	350
90+	2700	-	SPHWHTL3D50GE4W0HF	HB, JB, KB	190	250
			SPHWHTL3D50GE4W0JF	JB, KB, MB	210	270
	3000	-	SPHWHTL3D50GE4V0JF	JB, KB, MB	210	270
	3500	-	SPHWHTL3D50GE4U0JF	JB, KB, MB	210	270
			SPHWHTL3D50GE4U0KF	KB, MB, NB	230	290
	4000	-	SPHWHTL3D50GE4T0JF	JB, KB, MB	210	270
			SPHWHTL3D50GE4T0KF	KB, MB, NB	230	290
	5000	-	SPHWHTL3D50GE4RTKF	KB, MB, NB	230	290
			SPHWHTL3D50GE4RTMF	MB, NB, PB	250	310
	5700	-	SPHWHTL3D50GE4QTKF	KB, MB, NB	230	290
			SPHWHTL3D50GE4QTMF	MB, NB, PB	250	310
5700	90+	SPHWHTL3D50TV4QTKF	KB, MB, NB	230	290	



## Best solution for high lumen output: street & sports lighting applications

- 10W, 2.99V high power LED
- Beam angle: 128°
- Thermal resistance: 2.2K/W
- Footprint: 3.5mm x 3.5mm



[1050mA, 85°C]

CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
70+	2700	-	SPHWHTL3DA0CF4W0S6	S2, T2, U2	380	420
			SPHWHTL3DA0CF4W0T6	T2, U2, V2	400	440
	3000	-	SPHWHTL3DA0CF4V0V6	V2, W2, Y2	440	480
			SPHWHTL3DA0CF4V0W6	W2, Y2, Z2	460	500
	3500	-	SPHWHTL3DA0CF4U0V6	V2, W2, Y2	440	480
			SPHWHTL3DA0CF4U0W6	W2, Y2, Z2	460	500
			SPHWHTL3DA0CF4U0W6	Y2, Z2, 12	480	520
	4000	-	SPHWHTL3DA0CF4T0W6	W2, Y2, Z2	460	520
			SPHWHTL3DA0CF4T0Y6	Y2, Z2, 12	480	540
			SPHWHTL3DA0CF4RTW6	W2, Y2, Z2	460	500
	5000	-	SPHWHTL3DA0CF4RTY6	Y2, Z2, 12	480	520
			SPHWHTL3DA0CF4RTZ6	Z2, 12, 22	500	540
			SPHWHTL3DA0CF4QTV6	V2, W2, Y2	440	480
	5700	-	SPHWHTL3DA0CF4QTW6	W2, Y2, Z2	460	500
			SPHWHTL3DA0CF4QTY6	Y2, Z2, 12	480	520
	6500	-	SPHWHTL3DA0CF4PTW6	W2, Y2, Z2	460	500
			SPHWHTL3DA0CF4PTY6	Y2, Z2, 12	480	520



CRI	CCT (K)	TLCI	Part Number	Luminous Flux (lm)		
				Bin	Min.	Max.
80+	2700	-	SPHWHTL3DA0EF4W0Q6	Q2, R2, S2	340	380
			SPHWHTL3DA0EF4W0R6	R2, S2, T2	360	400
	3000	-	SPHWHTL3DA0EF4V0R6	R2, S2, T2	360	400
	3500	-	SPHWHTL3DA0EF4U0R6	R2, S2, T2	360	400
			SPHWHTL3DA0EF4U0S6	S2, T2, U2	380	420
	4000	-	SPHWHTL3DA0EF4T0S6	S2, T2, U2	380	420
			SPHWHTL3DA0EF4T0T6	T2, U2, V2	400	440
	5000	-	SPHWHTL3DA0EF4RTS6	S2, T2, U2	380	420
			SPHWHTL3DA0EF4RTT6	T2, U2, V2	400	440
			SPHWHTL3DA0EF4RTU6	U2, V2, W2	420	460
	5300	-	SPHWHTL3DA0EF4QRT6	T2, U2, V2	400	440
			SPHWHTL3DA0EF4QRU6	U2, V2, W2	420	460
	5700	-	SPHWHTL3DA0EF4QTT6	T2, U2, V2	400	440
			SPHWHTL3DA0EF4QTU6	U2, V2, W2	420	460
	6000	-	SPHWHTL3DA0EF4PQT6	T2, U2, V2	400	440
			SPHWHTL3DA0EF4PQU6	U2, V2, W2	420	460
	6500	-	SPHWHTL3DA0EF4PTT6	T2, U2, V2	400	440
			SPHWHTL3DA0EF4PTU6	U2, V2, W2	420	460
90+	2700	-	SPHWHTL3DA0GF4W0M6	M2, N2, P2	280	320
			SPHWHTL3DA0GF4W0N6	N2, P2, Q2	300	340
	3000	-	SPHWHTL3DA0GF4V0N6	N2, P2, Q2	300	340
			SPHWHTL3DA0GF4V0P6	P2, Q2, R2	320	360
	3500	-	SPHWHTL3DA0GF4U0N6	N2, P2, Q2	300	340
			SPHWHTL3DA0GF4U0P6	P2, Q2, R2	320	360
	4000	-	SPHWHTL3DA0GF4T0P6	P2, Q2, R2	320	360
			SPHWHTL3DA0GF4T0Q6	Q2, R2, S2	340	380
	5000	-	SPHWHTL3DA0GF4RTR6	R2, S2, T2	360	400
			SPHWHTL3DA0GF4RTS6	S2, T2, U2	380	420
	6000	-	SPHWHTL3DA0GF4PQR6	R2, S2, T2	360	400
			SPHWHTL3DA0GF4PQS6	S2, T2, U2	380	420
5700	90+	SPHWHTL3DA0TV4QTS6	S2, T2, U2	380	420	