

## Torofi Recessed

### Termékinformáció

A Tungsram Torofi termékcsalád kiváló vizuális megjelenése és rugalmas szerelési lehetőségei miatt ideális kereskedelmi vagy irodai világításhoz. Modern kialakítása rendkívül esztétikus, mellyel könnyen emelheti helyisége megjelenését.

### Tulajdonságok és előnyök

- Hossz - 511 mm és 1177 mm
- Driver opciók - Statikus, DALI
- Süllyesztett telepítés
- Színvisszaadási index: CRI80
- Színhőmérséklet: 3000K/4000K
- SDCM  $\leq 3$
- Optics: Standard Specular Reflector (85°x85°) / Prismatic diffuser (110°)
- IP20, IK03
- Folyamatos fényesség kialakíthatóság
- Alacsony káprázási index
- Akár 127lm/W fényhasznosítás
- Kifinomult megjelenés
- Samsung chippek
- Hosszú élettartam: 75.000 @ L80B20
- Helvar driver

### Alkalmazási terület



Kiskereskedelem /  
Hotel / Étterem

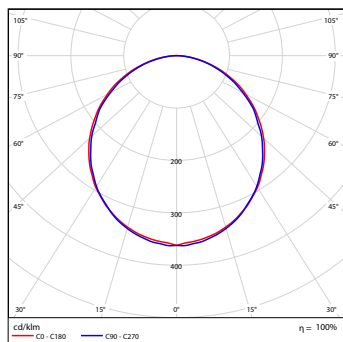


Iroda

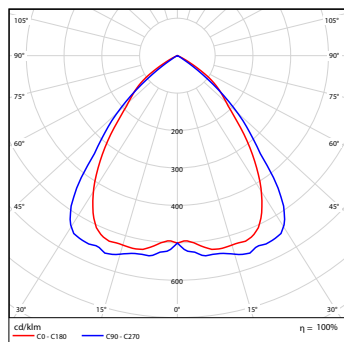
# Termék specifikáció

Termékkód	Termékmegnevezés	Hosszúság (mm)	Teljesítmény (W)	Fényáram (lm)	Fényhasznosítás (lm/W)	CCT (K)	CRI	UGR	IK	Sugárzási szög (°)
STATIC										
93118651	Torofi R 28W 500 830 S 110	511	28	3250	116	3000	80+	-	03	110°
93118652	Torofi R 28W 500 830 S 085	511	28	3000	107	3000	80+	-	03	85°x85°
93118659	Torofi R 28W 500 840 S 110	511	28	3550	127	4000	80+	-	03	110°
93118660	Torofi R 28W 500 840 S 085	511	28	3250	116	4000	80+	-	03	85°x85°
93118653	Torofi R 36W1200 830 S 110	1177	36	3900	108	3000	80+	-	03	110°
93118654	Torofi R 36W1200 830 S 085	1177	36	3600	100	3000	80+	-	03	85°x85°
93118661	Torofi R 36W1200 840 S 110	1177	36	4150	115	4000	80+	-	03	110°
93118662	Torofi R 36W1200 840 S 085	1177	36	3800	106	4000	80+	-	03	85°x85°
DALI										
93118655	Torofi R 28W 500 830 D 110	511	28	3250	116	3000	80+	-	03	110°
93118656	Torofi R 28W 500 830 D 085	511	28	3000	107	3000	80+	-	03	85°x85°
93118663	Torofi R 28W 500 840 D 110	511	28	3550	127	4000	80+	-	03	110°
93118664	Torofi R 28W 500 840 D 085	511	28	3250	116	4000	80+	-	03	85°x85°
93118657	Torofi R 36W1200 830 D 110	1177	36	3900	108	3000	80+	-	03	110°
93118658	Torofi R 36W1200 830 D 085	1177	36	3600	100	3000	80+	-	03	85°x85°
93118665	Torofi R 36W1200 840 D 110	1177	36	4150	115	4000	80+	-	03	110°
93118666	Torofi R 36W1200 840 D 085	1177	36	3800	106	4000	80+	-	03	85°x85°

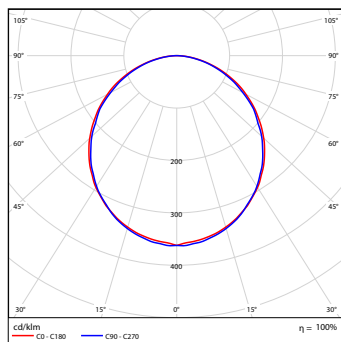
## Fényeloszlás



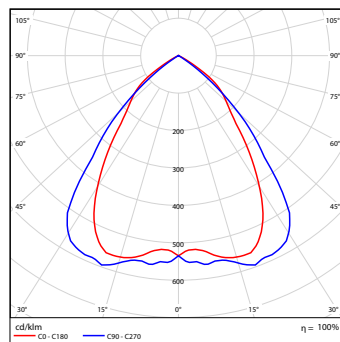
28W 110°



28W 85°



36W 110°



36W 85°

# UGR táblázat

Glare evaluation according to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	26.4	27.7	26.7	28.0	28.2	26.2	27.5	26.5	27.7	28.0
	3H	28.0	29.2	28.3	29.5	29.7	27.7	28.9	28.0	29.1	29.4
	4H	28.6	29.8	29.0	30.1	30.3	28.3	29.4	28.6	29.7	30.0
	6H	29.1	30.2	29.5	30.5	30.8	28.7	29.7	29.0	30.0	30.3
	8H	29.3	30.3	29.6	30.6	30.9	28.8	29.8	29.2	30.1	30.5
4H	2H	27.1	28.2	27.4	28.5	28.8	26.9	28.0	27.2	28.3	28.6
	3H	28.8	29.8	29.2	30.1	30.5	28.5	29.5	28.9	29.8	30.2
	4H	29.6	30.5	30.0	30.8	31.2	29.3	30.1	29.7	30.5	30.8
	6H	30.2	31.0	30.6	31.3	31.7	29.8	30.6	30.2	30.9	31.3
	8H	30.4	31.1	30.9	31.5	31.9	30.0	30.7	30.4	31.1	31.5
8H	2H	29.9	30.6	30.3	31.0	31.4	29.6	30.3	30.0	30.7	31.1
	4H	30.6	31.2	31.1	31.6	32.1	30.3	30.8	30.7	31.2	31.7
	6H	30.9	31.4	31.4	31.9	32.3	30.5	31.0	31.0	31.4	31.9
	8H	31.1	31.6	31.6	32.0	32.5	30.7	31.1	31.2	31.6	32.1
	12H	29.9	30.5	30.3	30.9	31.4	29.6	30.2	30.1	30.6	31.1
2H	4H	30.7	31.2	31.1	31.6	32.1	30.3	30.8	30.8	31.3	31.7
	6H	31.0	31.4	31.5	31.9	32.4	30.6	31.0	31.1	31.5	32.0
	8H										
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.3					+0.2 / -0.4				
S = 2.0H		+0.4 / -0.6					+0.4 / -0.7				
Standard table		BK06					BK06				
Correction Summand		13.8					13.3				
Corrected glare indices referring to 3550lm Total luminous flux											

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-height ratio = 0.25

28W 110°

Glare evaluation according to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	26.4	27.7	26.7	28.0	28.2	26.2	27.5	26.5	27.7	28.0
	3H	28.0	29.2	28.3	29.5	29.7	27.7	28.9	28.0	29.1	29.4
	4H	28.6	29.8	29.0	30.1	30.3	28.3	29.4	28.6	29.7	30.0
	6H	29.1	30.2	29.5	30.5	30.8	28.7	29.7	29.0	30.0	30.3
	8H	29.3	30.3	29.6	30.6	30.9	28.8	29.8	29.2	30.1	30.5
4H	2H	27.1	28.2	27.4	28.5	28.8	26.9	28.0	27.2	28.3	28.6
	3H	28.8	29.8	29.2	30.1	30.5	28.5	29.5	28.9	29.8	30.2
	4H	29.6	30.5	30.0	30.8	31.2	29.3	30.1	29.7	30.5	30.8
	6H	30.2	31.0	30.6	31.3	31.7	29.8	30.6	30.2	30.9	31.3
	8H	30.4	31.1	30.9	31.5	31.9	30.0	30.7	30.4	31.1	31.5
8H	2H	29.9	30.6	30.3	31.0	31.4	29.6	30.3	30.0	30.7	31.1
	4H	30.6	31.2	31.1	31.6	32.1	30.3	30.8	30.7	31.2	31.7
	6H	30.9	31.4	31.4	31.9	32.3	30.5	31.0	31.0	31.4	31.9
	8H	31.1	31.6	31.6	32.0	32.5	30.7	31.1	31.2	31.6	32.1
	12H	29.9	30.5	30.3	30.9	31.4	29.6	30.2	30.1	30.6	31.1
2H	4H	30.7	31.2	31.1	31.6	32.1	30.3	30.8	30.8	31.3	31.7
	6H	31.0	31.4	31.5	31.9	32.4	30.6	31.0	31.1	31.5	32.0
	8H										
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.3					+0.2 / -0.4				
S = 2.0H		+0.4 / -0.6					+0.4 / -0.7				
Standard table		BK06					BK06				
Correction Summand		13.8					13.3				
Corrected glare indices referring to 3550lm Total luminous flux											

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-height ratio = 0.25

28W 85°

Glare evaluation according to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24.0	25.3	24.3	25.6	25.8	23.8	25.1	24.1	25.3	25.6
	3H	25.6	26.8	25.9	27.1	27.3	25.3	26.5	25.6	26.7	27.0
	4H	26.2	27.4	26.6	27.7	27.9	25.9	27.0	26.2	27.3	27.6
	6H	26.7	27.8	27.1	28.1	28.4	26.3	27.3	26.6	27.6	27.9
	8H	26.9	27.9	27.3	28.2	28.5	26.4	27.4	26.8	27.7	28.1
4H	2H	24.7	25.8	25.0	26.1	26.4	24.5	25.6	24.8	25.9	26.2
	3H	26.4	27.4	26.8	27.7	28.1	26.1	27.1	26.5	27.4	27.8
	4H	27.2	28.1	27.6	28.4	28.8	26.9	27.7	27.3	28.1	28.4
	6H	27.8	28.6	28.2	28.9	29.3	27.4	28.2	27.8	28.5	28.9
	8H	28.0	28.7	28.5	29.1	29.5	27.6	28.3	28.0	28.7	29.1
8H	2H	27.5	28.2	27.9	28.6	29.0	27.2	27.9	27.6	28.3	28.7
	4H	28.2	28.8	28.7	29.2	29.7	27.9	28.4	28.3	28.9	29.3
	6H	28.5	29.0	29.0	29.5	29.9	28.1	28.6	28.6	29.0	29.5
	8H	28.7	29.2	29.2	29.6	30.1	28.3	28.7	28.8	29.2	29.7
	12H	27.5	28.1	27.9	28.5	29.0	27.2	27.8	27.7	28.2	28.7
2H	4H	28.3	28.8	28.8	29.2	29.7	27.9	28.4	28.4	28.9	29.3
	6H	28.6	29.0	29.1	29.5	30.0	28.2	28.6	28.7	29.1	29.6
	8H										
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.3					+0.2 / -0.4				
S = 2.0H		+0.4 / -0.6					+0.4 / -0.7				
Standard table		BK06					BK06				
Correction Summand		11.4					11.0				
Corrected glare indices referring to 4150lm Total luminous flux											

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-height ratio = 0.25

36W 110°

Glare evaluation according to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19.9	20.8	20.1	21.0	21.2	20.7	21.6	21.0	21.8	22.0
	3H	19.7	20.5	20.0	20.8	21.0	20.6	21.4	20.9	21.6	21.8
	4H	19.7	20.4	20.0	20.7	20.9	20.5	21.2	20.8	21.5	21.8
	6H	19.6	20.3	19.9	20.6	20.8	20.4	21.1	20.8	21.4	21.7
	8H	19.6	20.2	19.9	20.5	20.8	20.4	21.0	20.7	21.3	21.6
4H	2H	19.7	20.4	20.0	20.7	21.0	20.5	21.3	20.9	21.5	21.8
	3H	19.6	20.2	19.9	20.5	20.8	20.4	21.0	20.8	21.3	21.6
	4H	19.5	20.0	19.9	20.4	20.7	20.3	20.9	20.7	21.2	21.5
	6H	19.4	19.9	19.8	20.2	20.6	20.3	20.7	20.7	21.1	21.5
	8H	19.4	19.8	19.8	20.2	20.6	20.2	20.6	20.6	21.0	21.4
8H	2H	19.3	19.7	19.8	20.1	20.5	20.2	20.5	20.6	20.9	21.4
	4H	19.4	19.8	19.8	20.2	20.6	20.2	20.6	20.6	21.0	21.4
	6H	19.3	19.6	19.8	20.0	20.5	20.1	20.5	20.6	20.9	21.3
	8H	19.3	19.5	19.7	20.0	20.4	20.1	20.4	20.6	20.8	21.3
	12H	19.2	19.4	19.7	19.9	20.4	20.0	20.3	20.5	20.7	21.2
2H	4H	19.3	19.7	19.8	20.1	20.5	20.2	20.5	20.6	20.9	21.4
	6H	19.3	19.5	19.7	20.0	20.4	20.1	20.4	20.6	20.8	21.3
	8H	19.2	19.4	19.7	19.9	20.4	20.0	20.3	20.5	20.7	21.2
Variation of the observer position for the luminaire distances S											
S = 1.0H		+2.4 / -2.7					+2.2 / -7.4				
S = 1.5H		+3.1 / -11.2					+4.0 / -22.6				
S = 2.0H		+5.0 / -29.8					+5.9 / -34.9				
Standard table		BK00					BK00				
Correction Summand		1.3					2.1				
Corrected glare indices referring to 3800lm Total luminous flux											

The UGR values are calculated in acc. with CIE Publ. 117. Spacing-to-height ratio = 0.25

36W 85°

# Szabványok és előírások

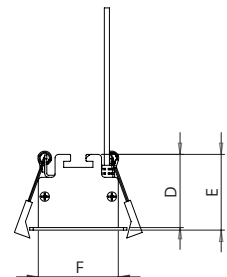
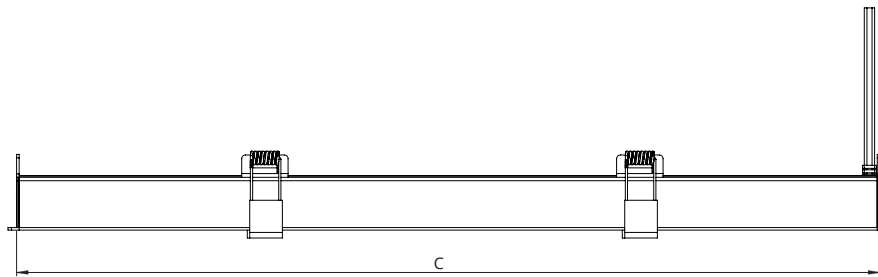
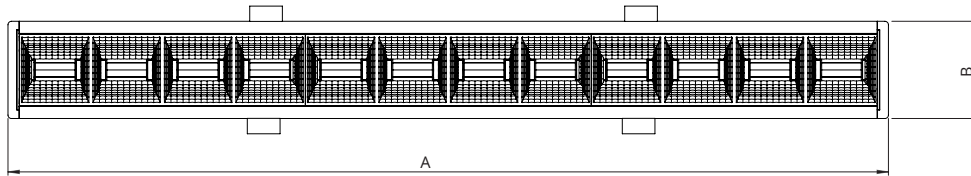
**Tanúsítványok:** CE,

**Rendelet:** 2014/35/EU, 2014/30/EU, 2011/65/EU, (2009/125/EK keret) EU/1194/2012, amelyet az EU 2015/1428 módosított, (framework 2010/30/EK) 874/2012 és 518/2014, 2012/19/EU

**Harmonizált szabványok:** EEN 60598, EN 62493, EN 61547, EN55015, EN 61000, további részletek a CE-Megfelelőségi Nyilatkozaton, és Technikai Fájlon.

Fotobiológiai besorolás: RG1. A termék biztonságosnak tekinthető, semmilyen fotobiológiai veszélyt nem jelent.

## Méretek (mm)



Típus	A	B	C	D	E	F
511 mm version	511	56.5	501	44	47	47
1177 mm version	1177	56.5	1167	44	47	47