



## Tulip M

### SURFACE MOUNTED | NON-DALI SERIES

A highly elegant, compact track spotlight. The radiator is encased in the aluminum housing, allowing for a smooth design. Tulip M range includes several special color temperatures for food, art and fashion. Especially suitable for commercial spaces and showrooms that require a sleek, minimalistic luminaire.

The modern touch is given by the aluminum housing and three color options: signal white, jet black and white aluminum.

Available in two series, with different add-ons and controls:

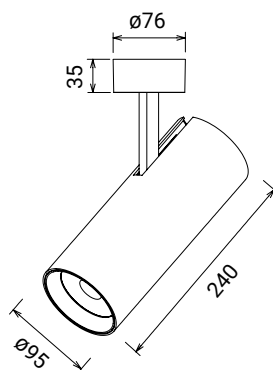
- Tulip M Non-DALI – the standard for any project in the retail sector
- Tulip M DALI – with DALI controls for illumination adjustments

### APPLICATION

High End Grocery & Supermarkets | Fashion Retailers | Hospitality | Art & Exhibitions

### FEATURES & BENEFITS

- CRI > 90 as standard
- 4 color temperatures: 2700K, 3000K, 3500K and 4000K
- Great variety of optics – 3 angles
- Efficiency: 102 lm/W @4000K
- Very long service life: 50.000 h at 90% luminous flux
- Dimmable (only for DALI Series)



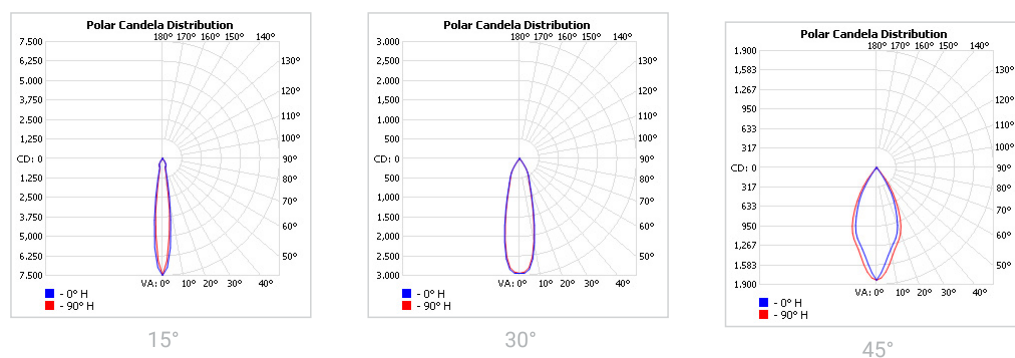
**SPECIFICATIONS**

Power consumption	14W, 20W, 27W
Dimensions	Ø95x240x285mm±1mm
Weight	1.5 Kg
Housing materials	Aluminium, glass
IK code	IK02
THD (at 230V, 50Hz, Full load)	< 8%
Protection class	Safety class 1
Operating temperature [°C]	-20°C ... +45°C / -4F ... +113F
Operating humidity [%]	10 ÷ 85
Power factor	≥0.95
AC Input [Vac]	220 - 240 VAC
Lens angle [°]	15°, 30°, 45°
Lifespan [h]	50.000
Housing color	○ RAL 9003 - Signal white, ● RAL 9005 - Jet Black
Lumen maintenance	L90/B10@50.000h at 25°C
IP factor	IP20
Control optional	-
Warranty [years]	5
Storage temperature range [°C]	-20°C ... +55°C / -4F ... +131F
Emergency option	-

#	Standard
CRI	CRI90
CCT [K]	2700 / 3000 / 3500 / 4000
MacAdam	3

CRI - Color rendering, CCT - Color temperature, MacAdam - Color consistency

**LIGHT DISTRIBUTION**



**TOLERANCES****Luminous flux tolerances:** -/+ 5%**Consumption tolerance:** -/+ 5% for Non-DALI | -/+ 10% for Non-DALI & KIT EM | -/+ 10% for DALI | -/+ 15% for DALI & KIT EM**BATTERY WARRANTY****Non-DALI EM & DALI EM:** 12 months warranty**Non-DALI & DALI:** -**MAXIMUM NO. OF LUMINAIRES ON A CIRCUIT**

Luminaire Power(W)	Control type	Circuit Breaker Type					
		B			C		
		20	16	10	20	16	10
14-20W	Non-DALI	62	50	31	104	85	52
27W	Non-DALI	62	50	31	104	85	52
14W	DALI	44	35	21	73	58	35
20W-27W	DALI	94	95	47	94	95	47

**RISK GROUP**

<b>Standard (CRI80)</b>	RG1
<b>FOOD (BVF, FBS, FSM)</b>	RG1
<b>FOOD ≤35W (FZM, FSH)</b>	RG1
<b>FOOD &gt;35W (FZM, FSH)</b>	RG2
<b>FAS</b>	RG1
<b>AMB2200</b>	RG1
<b>ART</b>	RG1
<b>AGI</b>	RG1
<b>CRI90</b>	RG1
<b>CRI95</b>	RG1
<b>ENT</b>	RG1

**RG1**

The evaluation of photobiological safety is carried out according to the standard IEC 62471:2008 ("Photobiological safety of lamps and lamp systems"). Following the definition of the risk grouping system of the mentioned IEC standard, the LEDs mounted on this family fall into the class "Low Risk (RG1 – No photobiological hazard under normal behavioral limitations)". Under real circumstances (regarding exposure time, pupils, observation distance), it is assumed that there is no endangerment to the eye from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect.

**RG2**

The evaluation of photobiological safety is carried out according to the standard IEC 62471:2008 ("Photobiological safety of lamps and lamp systems"). Following the definition of the risk grouping system of the mentioned IEC standard, the LEDs mounted on this family fall into the class "Moderate Risk (RG2)". Under real circumstances (regarding exposure time, pupils, observation distance), it is assumed that there is no endangerment to the eye from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect.

## SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
<b>CRI 90</b>						
5G1032 TulipM SM C34016R/2700/14W/90/A15	Ø95x240x285mm±1mm	2700	1265	14W	91	15°
5G1033 TulipM SM C34016R/3000/14W/90/A15	Ø95x240x285mm±1mm	3000	1290	14W	93	15°
5G1034 TulipM SM C34016R/3500/14W/90/A15	Ø95x240x285mm±1mm	3500	1355	14W	97	15°
5G1035 TulipM SM C34016R/4000/14W/90/A15	Ø95x240x285mm±1mm	4000	1420	14W	102	15°
5G1036 TulipM SM C34016R/2700/14W/90/A30	Ø95x240x285mm±1mm	2700	1265	14W	91	30°
5G1037 TulipM SM C34016R/3000/14W/90/A30	Ø95x240x285mm±1mm	3000	1290	14W	93	30°
5G1038 TulipM SM C34016R/3500/14W/90/A30	Ø95x240x285mm±1mm	3500	1355	14W	97	30°
5G1039 TulipM SM C34016R/4000/14W/90/A30	Ø95x240x285mm±1mm	4000	1420	14W	102	30°
5G1040 TulipM SM C34016R/2700/14W/90/A45	Ø95x240x285mm±1mm	2700	1265	14W	91	45°
5G1041 TulipM SM C34016R/3000/14W/90/A45	Ø95x240x285mm±1mm	3000	1290	14W	93	45°
5G1042 TulipM SM C34016R/3500/14W/90/A45	Ø95x240x285mm±1mm	3500	1355	14W	97	45°
5G1043 TulipM SM C34016R/4000/14W/90/A45	Ø95x240x285mm±1mm	4000	1420	14W	102	45°
5G1044 TulipM SM C34016R/2700/20W/90/A15	Ø95x240x285mm±1mm	2700	1765	20W	89	15°
5G1045 TulipM SM C34016R/3000/20W/90/A15	Ø95x240x285mm±1mm	3000	1795	20W	90	15°
5G1046 TulipM SM C34016R/3500/20W/90/A15	Ø95x240x285mm±1mm	3500	1880	20W	94	15°
5G1047 TulipM SM C34016R/4000/20W/90/A15	Ø95x240x285mm±1mm	4000	1975	20W	99	15°
5G1048 TulipM SM C34016R/2700/20W/90/A30	Ø95x240x285mm±1mm	2700	1765	20W	89	30°
5G1049 TulipM SM C34016R/3000/20W/90/A30	Ø95x240x285mm±1mm	3000	1795	20W	90	30°
5G1050 TulipM SM C34016R/3500/20W/90/A30	Ø95x240x285mm±1mm	3500	1880	20W	94	30°
5G1051 TulipM SM C34016R/4000/20W/90/A30	Ø95x240x285mm±1mm	4000	1975	20W	99	30°
5G1052 TulipM SM C34016R/2700/20W/90/A45	Ø95x240x285mm±1mm	2700	1765	20W	89	45°
5G1053 TulipM SM C34016R/3000/20W/90/A45	Ø95x240x285mm±1mm	3000	1795	20W	90	45°
5G1054 TulipM SM C34016R/3500/20W/90/A45	Ø95x240x285mm±1mm	3500	1880	20W	94	45°
5G1055 TulipM SM C34016R/4000/20W/90/A45	Ø95x240x285mm±1mm	4000	1975	20W	99	45°
5G1056 TulipM SM C34016R/2700/27W/90/A15	Ø95x240x285mm±1mm	2700	2315	27W	86	15°
5G1057 TulipM SM C34016R/3000/27W/90/A15	Ø95x240x285mm±1mm	3000	2425	27W	90	15°
5G1058 TulipM SM C34016R/3500/27W/90/A15	Ø95x240x285mm±1mm	3500	2480	27W	92	15°
5G1059 TulipM SM C34016R/4000/27W/90/A15	Ø95x240x285mm±1mm	4000	2565	27W	95	15°
5G1060 TulipM SM C34016R/2700/27W/90/A30	Ø95x240x285mm±1mm	2700	2315	27W	86	30°
5G1061 TulipM SM C34016R/3000/27W/90/A30	Ø95x240x285mm±1mm	3000	2425	27W	90	30°
5G1062 TulipM SM C34016R/3500/27W/90/A30	Ø95x240x285mm±1mm	3500	2480	27W	92	30°
5G1063 TulipM SM C34016R/4000/27W/90/A30	Ø95x240x285mm±1mm	4000	2565	27W	95	30°
5G1064 TulipM SM C34016R/2700/27W/90/A45	Ø95x240x285mm±1mm	2700	2315	27W	86	45°
5G1065 TulipM SM C34016R/3000/27W/90/A45	Ø95x240x285mm±1mm	3000	2425	27W	90	45°
5G1066 TulipM SM C34016R/3500/27W/90/A45	Ø95x240x285mm±1mm	3500	2480	27W	92	45°
5G1067 TulipM SM C34016R/4000/27W/90/A45	Ø95x240x285mm±1mm	4000	2565	27W	95	45°