



Halo

SUSPENDED DOWNLIGHTS | DALI SERIES

With a minimalist design, Halo is a very versatile pendant luminaire, creating an elegant light effect. Optimized for high-performance and pleasant lighting in shops, pubs, bistros, restaurants and building entrances or receptions.

PI-LED - Combines variable white light and light of the RGB color system in one single light source. It can vary the color temperature between 2700K - 6500K along Planckian curve in the course of a day.

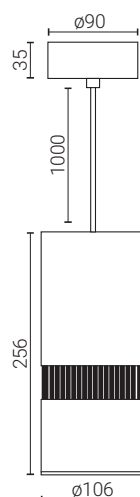
Halo downlight comes in several series, with various add-on and controls:

- Halo Non-DALI – the standard for any project in the retail sector
- Halo DALI – with DALI controls for dimming
- Halo PI-LED – simulates the spectral quality of natural daylight over the entire day.

APPLICATION

Grocery & Supermarkets | Retail | Office | Healthcare | Hospitality | DIY

- CRI > 80 as standard, up to 98 for certain special colors
- 15 color temperatures, including specialized options for food, fashion, art, hospitality and AGI light
- Great variety of optics – 4 angles from narrow beams to flood beams
- Efficiency: 117lm/W @4000K
- Dimmable



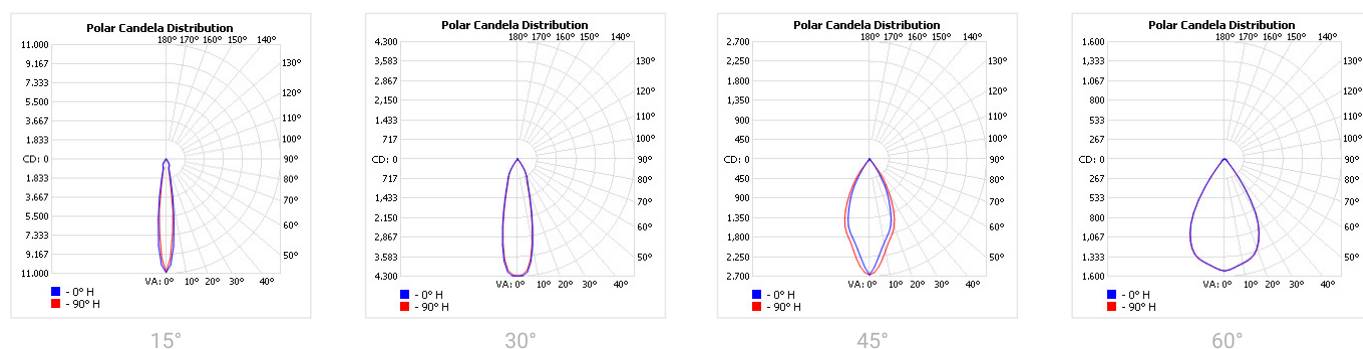
SPECIFICATIONS

Power consumption	12W, 14W, 17W, 20W, 23W, 27W, 29W, 35W
Dimensions	D106 x H256 ± 1mm
Weight	1.7 Kg
Housing materials	Aluminium, Glass
IK code	IK02
THD (at 230V, 50Hz, Full load)	<20%
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°, 60°
Lifespan [h]	50,000
Housing color	○ RAL 9003 - Signal White, ● RAL 9005 - Jet Black, ● RAL 9006 - White Aluminium
Lumen maintenance	L90/B10@50,000h at 25°C
IP factor	IP20
Control optional	DALI
Warranty [years]	5
Storage temperature range [°C]	-20°C ... +55°C / -4F ... +131F
Emergency option	-

#	Standard	Food	Fashion	AGI	ART	AMB
CRI	CRI80	CRI80	CRI95	CRI93	CRI98	CRI80
CCT [K]	2700 / 3000 / 3500 / 4000	BVF / FBS / FZM / FSM / FSH	FAS	AGI 3000 / 3500 / 4000	3000	2200
MacAdam	3	3 / 4 / 4 / 3 / 3	3	3	2	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
8-20W	Non-DALI	62	50	31	104	85	52
23-35W	Non-DALI	24	20	10	47	40	20
42W	Non-DALI	20	16	8	38	32	16
8-20W	DALI	62	50	31	104	85	52
23-27W	DALI	25	21	13	50	42	26
34-42W	DALI	17	14	9	34	28	18

RISK GROUP

Standard (CRI80)	RG1
FOOD (BVF, FBS, FSM)	RG1
FOOD ≤35W (FZM, FSH)	RG1
FOOD >35W (FZM, FSH)	RG2
FAS	RG1
AMB2200	RG1
ART	RG1
AGI	RG1
CRI90	RG1
CRI95	RG1
ENT	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 (°)
CRI 80						
244000 Halo C31050X/2700/14W/80/A15	D106 x H256 ± 1mm	2700	1485	14W	107	15°
244001 Halo C31050X/3000/14W/80/A15	D106 x H256 ± 1mm	3000	1500	14W	108	15°
244002 Halo C31050X/3500/14W/80/A15	D106 x H256 ± 1mm	3500	1540	14W	110	15°
244003 Halo C31050X/4000/14W/80/A15	D106 x H256 ± 1mm	4000	1570	14W	113	15°
244005 Halo C31050X/2700/14W/80/A30	D106 x H256 ± 1mm	2700	1485	14W	107	30°
244006 Halo C31050X/3000/14W/80/A30	D106 x H256 ± 1mm	3000	1500	14W	108	30°
244007 Halo C31050X/3500/14W/80/A30	D106 x H256 ± 1mm	3500	1540	14W	110	30°
244008 Halo C31050X/4000/14W/80/A30	D106 x H256 ± 1mm	4000	1570	14W	113	30°
244010 Halo C31050X/2700/14W/80/A45	D106 x H256 ± 1mm	2700	1485	14W	107	45°
244011 Halo C31050X/3000/14W/80/A45	D106 x H256 ± 1mm	3000	1500	14W	108	45°
244012 Halo C31050X/3500/14W/80/A45	D106 x H256 ± 1mm	3500	1540	14W	110	45°
244013 Halo C31050X/4000/14W/80/A45	D106 x H256 ± 1mm	4000	1570	14W	113	45°
244015 Halo C31050X/2700/14W/80/A60	D106 x H256 ± 1mm	2700	1485	14W	107	60°
244016 Halo C31050X/3000/14W/80/A60	D106 x H256 ± 1mm	3000	1500	14W	108	60°
244017 Halo C31050X/3500/14W/80/A60	D106 x H256 ± 1mm	3500	1540	14W	110	60°
244018 Halo C31050X/4000/14W/80/A60	D106 x H256 ± 1mm	4000	1570	14W	113	60°
244020 Halo C31050X/2700/20W/80/A15	D106 x H256 ± 1mm	2700	2080	20W	104	15°
244021 Halo C31050X/3000/20W/80/A15	D106 x H256 ± 1mm	3000	2100	20W	105	15°
244022 Halo C31050X/3500/20W/80/A15	D106 x H256 ± 1mm	3500	2160	20W	108	15°
244023 Halo C31050X/4000/20W/80/A15	D106 x H256 ± 1mm	4000	2200	20W	110	15°
244025 Halo C31050X/2700/20W/80/A30	D106 x H256 ± 1mm	2700	2080	20W	104	30°
244026 Halo C31050X/3000/20W/80/A30	D106 x H256 ± 1mm	3000	2100	20W	105	30°
244027 Halo C31050X/3500/20W/80/A30	D106 x H256 ± 1mm	3500	2160	20W	108	30°
244028 Halo C31050X/4000/20W/80/A30	D106 x H256 ± 1mm	4000	2200	20W	110	30°
244030 Halo C31050X/2700/20W/80/A45	D106 x H256 ± 1mm	2700	2080	20W	104	45°
244031 Halo C31050X/3000/20W/80/A45	D106 x H256 ± 1mm	3000	2100	20W	105	45°
244032 Halo C31050X/3500/20W/80/A45	D106 x H256 ± 1mm	3500	2160	20W	108	45°
244033 Halo C31050X/4000/20W/80/A45	D106 x H256 ± 1mm	4000	2200	20W	110	45°
244035 Halo C31050X/2700/20W/80/A60	D106 x H256 ± 1mm	2700	2080	20W	104	60°
244036 Halo C31050X/3000/20W/80/A60	D106 x H256 ± 1mm	3000	2100	20W	105	60°
244037 Halo C31050X/3500/20W/80/A60	D106 x H256 ± 1mm	3500	2160	20W	108	60°
244038 Halo C31050X/4000/20W/80/A60	D106 x H256 ± 1mm	4000	2200	20W	110	60°
244040 Halo C31050X/2700/27W/80/A15	D106 x H256 ± 1mm	2700	2945	27W	110	15°
244041 Halo C31050X/3000/27W/80/A15	D106 x H256 ± 1mm	3000	2970	27W	110	15°
244042 Halo C31050X/3500/27W/80/A15	D106 x H256 ± 1mm	3500	3055	27W	114	15°
244043 Halo C31050X/4000/27W/80/A15	D106 x H256 ± 1mm	4000	3135	27W	117	15°
244045 Halo C31050X/2700/27W/80/A30	D106 x H256 ± 1mm	2700	2945	27W	110	30°
244046 Halo C31050X/3000/27W/80/A30	D106 x H256 ± 1mm	3000	2970	27W	110	30°
244047 Halo C31050X/3500/27W/80/A30	D106 x H256 ± 1mm	3500	3055	27W	114	30°
244048 Halo C31050X/4000/27W/80/A30	D106 x H256 ± 1mm	4000	3135	27W	117	30°
244050 Halo C31050X/2700/27W/80/A45	D106 x H256 ± 1mm	2700	2945	27W	110	45°
244051 Halo C31050X/3000/27W/80/A45	D106 x H256 ± 1mm	3000	2970	27W	110	45°
244052 Halo C31050X/3500/27W/80/A45	D106 x H256 ± 1mm	3500	3055	27W	114	45°
244053 Halo C31050X/4000/27W/80/A45	D106 x H256 ± 1mm	4000	3135	27W	117	45°
244055 Halo C31050X/2700/27W/80/A60	D106 x H256 ± 1mm	2700	2945	27W	110	60°
244056 Halo C31050X/3000/27W/80/A60	D106 x H256 ± 1mm	3000	2970	27W	110	60°
244057 Halo C31050X/3500/27W/80/A60	D106 x H256 ± 1mm	3500	3055	27W	114	60°
244058 Halo C31050X/4000/27W/80/A60	D106 x H256 ± 1mm	4000	3135	27W	117	60°
244120 Halo C31050X/BVF/27W/80/A15	D106 x H256 ± 1mm	BVF	2065	27W	77	15°
244121 Halo C31050X/FBS/27W/80/A15	D106 x H256 ± 1mm	FBS	1635	27W	61	15°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 80						
244122 Halo C31050X/FZM/27W/80/A15	D106 x H256 ± 1mm	FZM	1530	27W	57	15°
244123 Halo C31050X/FSM/27W/80/A15	D106 x H256 ± 1mm	FSM	1530	27W	57	15°
244124 Halo C31050X/FSH/27W/80/A15	D106 x H256 ± 1mm	FSH	2250	27W	84	15°
244125 Halo C31050X/BVF/27W/80/A30	D106 x H256 ± 1mm	BVF	2065	27W	77	30°
244126 Halo C31050X/FBS/27W/80/A30	D106 x H256 ± 1mm	FBS	1635	27W	61	30°
244127 Halo C31050X/FZM/27W/80/A30	D106 x H256 ± 1mm	FZM	1530	27W	57	30°
244128 Halo C31050X/FSM/27W/80/A30	D106 x H256 ± 1mm	FSM	1530	27W	57	30°
244129 Halo C31050X/FSH/27W/80/A30	D106 x H256 ± 1mm	FSH	2250	27W	84	30°
244130 Halo C31050X/BVF/27W/80/A45	D106 x H256 ± 1mm	BVF	2065	27W	77	45°
244131 Halo C31050X/FBS/27W/80/A45	D106 x H256 ± 1mm	FBS	1635	27W	61	45°
244132 Halo C31050X/FZM/27W/80/A45	D106 x H256 ± 1mm	FZM	1530	27W	57	45°
244133 Halo C31050X/FSM/27W/80/A45	D106 x H256 ± 1mm	FSM	1530	27W	57	45°
244134 Halo C31050X/FSH/27W/80/A45	D106 x H256 ± 1mm	FSH	2250	27W	84	45°
244135 Halo C31050X/BVF/27W/80/A60	D106 x H256 ± 1mm	BVF	2065	27W	77	60°
244136 Halo C31050X/FBS/27W/80/A60	D106 x H256 ± 1mm	FBS	1635	27W	61	60°
244137 Halo C31050X/FZM/27W/80/A60	D106 x H256 ± 1mm	FZM	1530	27W	57	60°
244138 Halo C31050X/FSM/27W/80/A60	D106 x H256 ± 1mm	FSM	1530	27W	57	60°
244139 Halo C31050X/FSH/27W/80/A60	D106 x H256 ± 1mm	FSH	2250	27W	84	60°
244200 Halo C31050X/BVF/14W/80/A15	D106 x H256 ± 1mm	BVF	1080	14W	77	15°
244201 Halo C31050X/FBS/14W/80/A15	D106 x H256 ± 1mm	FBS	855	14W	61	15°
244202 Halo C31050X/FZM/14W/80/A15	D106 x H256 ± 1mm	FZM	800	14W	57	15°
244203 Halo C31050X/FSM/14W/80/A15	D106 x H256 ± 1mm	FSM	800	14W	57	15°
244204 Halo C31050X/FSH/14W/80/A15	D106 x H256 ± 1mm	FSH	1180	14W	84	15°
244205 Halo C31050X/BVF/14W/80/A30	D106 x H256 ± 1mm	BVF	1080	14W	77	30°
244206 Halo C31050X/FBS/14W/80/A30	D106 x H256 ± 1mm	FBS	855	14W	61	30°
244207 Halo C31050X/FZM/14W/80/A30	D106 x H256 ± 1mm	FZM	800	14W	57	30°
244208 Halo C31050X/FSM/14W/80/A30	D106 x H256 ± 1mm	FSM	800	14W	57	30°
244209 Halo C31050X/FSH/14W/80/A30	D106 x H256 ± 1mm	FSH	1180	14W	84	30°
244210 Halo C31050X/BVF/14W/80/A45	D106 x H256 ± 1mm	BVF	1080	14W	77	45°
244211 Halo C31050X/FBS/14W/80/A45	D106 x H256 ± 1mm	FBS	855	14W	61	45°
244212 Halo C31050X/FZM/14W/80/A45	D106 x H256 ± 1mm	FZM	800	14W	57	45°
244213 Halo C31050X/FSM/14W/80/A45	D106 x H256 ± 1mm	FSM	800	14W	57	45°
244214 Halo C31050X/FSH/14W/80/A45	D106 x H256 ± 1mm	FSH	1180	14W	84	45°
244215 Halo C31050X/BVF/14W/80/A60	D106 x H256 ± 1mm	BVF	1080	14W	77	60°
244216 Halo C31050X/FBS/14W/80/A60	D106 x H256 ± 1mm	FBS	855	14W	61	60°
244217 Halo C31050X/FZM/14W/80/A60	D106 x H256 ± 1mm	FZM	800	14W	57	60°
244218 Halo C31050X/FSM/14W/80/A60	D106 x H256 ± 1mm	FSM	800	14W	57	60°
244219 Halo C31050X/FSH/14W/80/A60	D106 x H256 ± 1mm	FSH	1180	14W	84	60°
244220 Halo C31050X/BVF/20W/80/A15	D106 x H256 ± 1mm	BVF	1540	20W	77	15°
244221 Halo C31050X/FBS/20W/80/A15	D106 x H256 ± 1mm	FBS	1220	20W	61	15°
244222 Halo C31050X/FZM/20W/80/A15	D106 x H256 ± 1mm	FZM	1140	20W	57	15°
244223 Halo C31050X/FSM/20W/80/A15	D106 x H256 ± 1mm	FSM	1140	20W	57	15°
244224 Halo C31050X/FSH/20W/80/A15	D106 x H256 ± 1mm	FSH	1680	20W	84	15°
244225 Halo C31050X/BVF/20W/80/A30	D106 x H256 ± 1mm	BVF	1540	20W	77	30°
244226 Halo C31050X/FBS/20W/80/A30	D106 x H256 ± 1mm	FBS	1220	20W	61	30°
244227 Halo C31050X/FZM/20W/80/A30	D106 x H256 ± 1mm	FZM	1140	20W	57	30°
244228 Halo C31050X/FSM/20W/80/A30	D106 x H256 ± 1mm	FSM	1140	20W	57	30°
244229 Halo C31050X/FSH/20W/80/A30	D106 x H256 ± 1mm	FSH	1680	20W	84	30°
244230 Halo C31050X/BVF/20W/80/A45	D106 x H256 ± 1mm	BVF	1540	20W	77	45°
244231 Halo C31050X/FBS/20W/80/A45	D106 x H256 ± 1mm	FBS	1220	20W	61	45°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 80						
244232 Halo C31050X/FZM/20W/80/A45	D106 x H256 ± 1mm	FZM	1140	20W	57	45°
244233 Halo C31050X/FSM/20W/80/A45	D106 x H256 ± 1mm	FSM	1140	20W	57	45°
244234 Halo C31050X/FSH/20W/80/A45	D106 x H256 ± 1mm	FSH	1680	20W	84	45°
244235 Halo C31050X/BVF/20W/80/A60	D106 x H256 ± 1mm	BVF	1540	20W	77	60°
244236 Halo C31050X/FBS/20W/80/A60	D106 x H256 ± 1mm	FBS	1220	20W	61	60°
244237 Halo C31050X/FZM/20W/80/A60	D106 x H256 ± 1mm	FZM	1140	20W	57	60°
244238 Halo C31050X/FSM/20W/80/A60	D106 x H256 ± 1mm	FSM	1140	20W	57	60°
244239 Halo C31050X/FSH/20W/80/A60	D106 x H256 ± 1mm	FSH	1680	20W	84	60°
244240 Halo C31050X/AMB2200/14W/80/A15	D106 x H256 ± 1mm	AMB2200	1020	14W	73	15°
244241 Halo C31050X/AMB2200/14W/80/A30	D106 x H256 ± 1mm	AMB2200	1020	14W	73	30°
244242 Halo C31050X/AMB2200/14W/80/A45	D106 x H256 ± 1mm	AMB2200	1020	14W	73	45°
244243 Halo C31050X/AMB2200/14W/80/A60	D106 x H256 ± 1mm	AMB2200	1020	14W	73	60°
244244 Halo C31050X/AMB2200/20W/80/A15	D106 x H256 ± 1mm	AMB2200	1410	20W	71	15°
244245 Halo C31050X/AMB2200/20W/80/A30	D106 x H256 ± 1mm	AMB2200	1410	20W	71	30°
244246 Halo C31050X/AMB2200/20W/80/A45	D106 x H256 ± 1mm	AMB2200	1410	20W	71	45°
244247 Halo C31050X/AMB2200/20W/80/A60	D106 x H256 ± 1mm	AMB2200	1410	20W	71	60°
244248 Halo C31050X/AMB2200/27W/80/A15	D106 x H256 ± 1mm	AMB2200	1870	27W	70	15°
244249 Halo C31050X/AMB2200/27W/80/A30	D106 x H256 ± 1mm	AMB2200	1870	27W	70	30°
244250 Halo C31050X/AMB2200/27W/80/A45	D106 x H256 ± 1mm	AMB2200	1870	27W	70	45°
244251 Halo C31050X/AMB2200/27W/80/A60	D106 x H256 ± 1mm	AMB2200	1870	27W	70	60°
244252 Halo C31050X/2700/35W/80/A15	D106 x H256 ± 1mm	2700	3710	35W	106	15°
244253 Halo C31050X/3000/35W/80/A15	D106 x H256 ± 1mm	3000	3745	35W	107	15°
244254 Halo C31050X/3500/35W/80/A15	D106 x H256 ± 1mm	3500	3815	35W	109	15°
244255 Halo C31050X/4000/35W/80/A15	D106 x H256 ± 1mm	4000	3920	35W	112	15°
244257 Halo C31050X/2700/35W/80/A30	D106 x H256 ± 1mm	2700	3710	35W	106	30°
244258 Halo C31050X/3000/35W/80/A30	D106 x H256 ± 1mm	3000	3745	35W	107	30°
244259 Halo C31050X/3500/35W/80/A30	D106 x H256 ± 1mm	3500	3815	35W	109	30°
244260 Halo C31050X/4000/35W/80/A30	D106 x H256 ± 1mm	4000	3920	35W	112	30°
244262 Halo C31050X/2700/35W/80/A45	D106 x H256 ± 1mm	2700	3710	35W	106	45°
244263 Halo C31050X/3000/35W/80/A45	D106 x H256 ± 1mm	3000	3745	35W	107	45°
244264 Halo C31050X/3500/35W/80/A45	D106 x H256 ± 1mm	3500	3815	35W	109	45°
244265 Halo C31050X/4000/35W/80/A45	D106 x H256 ± 1mm	4000	3920	35W	112	45°
244267 Halo C31050X/2700/35W/80/A60	D106 x H256 ± 1mm	2700	3710	35W	106	60°
244268 Halo C31050X/3000/35W/80/A60	D106 x H256 ± 1mm	3000	3745	35W	107	60°
244269 Halo C31050X/3500/35W/80/A60	D106 x H256 ± 1mm	3500	3815	35W	109	60°
244270 Halo C31050X/4000/35W/80/A60	D106 x H256 ± 1mm	4000	3920	35W	112	60°

CRI 93

244152 Halo C31050X/AGI3000/12W/93/A15	D106 x H256 ± 1mm	AGI3000	735	12W	62	15°
244153 Halo C31050X/AGI3500/12W/93/A15	D106 x H256 ± 1mm	AGI3500	780	12W	65	15°
244154 Halo C31050X/AGI4000/12W/93/A15	D106 x H256 ± 1mm	AGI4000	830	12W	70	15°
244155 Halo C31050X/AGI3000/12W/93/A30	D106 x H256 ± 1mm	AGI3000	735	12W	62	30°
244156 Halo C31050X/AGI3500/12W/93/A30	D106 x H256 ± 1mm	AGI3500	780	12W	65	30°
244157 Halo C31050X/AGI4000/12W/93/A30	D106 x H256 ± 1mm	AGI4000	830	12W	70	30°
244158 Halo C31050X/AGI3000/12W/93/A45	D106 x H256 ± 1mm	AGI3000	735	12W	62	45°
244159 Halo C31050X/AGI3500/12W/93/A45	D106 x H256 ± 1mm	AGI3500	780	12W	65	45°
244160 Halo C31050X/AGI4000/12W/93/A45	D106 x H256 ± 1mm	AGI4000	830	12W	70	45°
244161 Halo C31050X/AGI3000/12W/93/A60	D106 x H256 ± 1mm	AGI3000	735	12W	62	60°
244162 Halo C31050X/AGI3500/12W/93/A60	D106 x H256 ± 1mm	AGI3500	780	12W	65	60°
244163 Halo C31050X/AGI4000/12W/93/A60	D106 x H256 ± 1mm	AGI4000	830	12W	70	60°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 93						
244164 Halo C31050X/AGI3000/17W/93/A15	D106 x H256 ± 1mm	AGI3000	985	17W	58	15°
244165 Halo C31050X/AGI3500/17W/93/A15	D106 x H256 ± 1mm	AGI3500	1050	17W	62	15°
244166 Halo C31050X/AGI4000/17W/93/A15	D106 x H256 ± 1mm	AGI4000	1115	17W	66	15°
244167 Halo C31050X/AGI3000/17W/93/A30	D106 x H256 ± 1mm	AGI3000	985	17W	58	30°
244168 Halo C31050X/AGI3500/17W/93/A30	D106 x H256 ± 1mm	AGI3500	1050	17W	62	30°
244169 Halo C31050X/AGI4000/17W/93/A30	D106 x H256 ± 1mm	AGI4000	1115	17W	66	30°
244170 Halo C31050X/AGI3000/17W/93/A45	D106 x H256 ± 1mm	AGI3000	985	17W	58	45°
244171 Halo C31050X/AGI3500/17W/93/A45	D106 x H256 ± 1mm	AGI3500	1050	17W	62	45°
244172 Halo C31050X/AGI4000/17W/93/A45	D106 x H256 ± 1mm	AGI4000	1115	17W	66	45°
244173 Halo C31050X/AGI3000/17W/93/A60	D106 x H256 ± 1mm	AGI3000	985	17W	58	60°
244174 Halo C31050X/AGI3500/17W/93/A60	D106 x H256 ± 1mm	AGI3500	1050	17W	62	60°
244175 Halo C31050X/AGI4000/17W/93/A60	D106 x H256 ± 1mm	AGI4000	1115	17W	66	60°
244176 Halo C31050X/AGI3000/23W/93/A15	D106 x H256 ± 1mm	AGI3000	1330	23W	58	15°
244177 Halo C31050X/AGI3500/23W/93/A15	D106 x H256 ± 1mm	AGI3500	1440	23W	63	15°
244178 Halo C31050X/AGI4000/23W/93/A15	D106 x H256 ± 1mm	AGI4000	1550	23W	68	15°
244179 Halo C31050X/AGI3000/23W/93/A30	D106 x H256 ± 1mm	AGI3000	1330	23W	58	30°
244180 Halo C31050X/AGI3500/23W/93/A30	D106 x H256 ± 1mm	AGI3500	1440	23W	63	30°
244181 Halo C31050X/AGI4000/23W/93/A30	D106 x H256 ± 1mm	AGI4000	1550	23W	68	30°
244182 Halo C31050X/AGI3000/23W/93/A45	D106 x H256 ± 1mm	AGI3000	1330	23W	58	45°
244183 Halo C31050X/AGI3500/23W/93/A45	D106 x H256 ± 1mm	AGI3500	1440	23W	63	45°
244184 Halo C31050X/AGI4000/23W/93/A45	D106 x H256 ± 1mm	AGI4000	1550	23W	68	45°
244185 Halo C31050X/AGI3000/23W/93/A60	D106 x H256 ± 1mm	AGI3000	1330	23W	58	60°
244186 Halo C31050X/AGI3500/23W/93/A60	D106 x H256 ± 1mm	AGI3500	1440	23W	63	60°
244187 Halo C31050X/AGI4000/23W/93/A60	D106 x H256 ± 1mm	AGI4000	1550	23W	68	60°
244188 Halo C31050X/AGI3000/29W/93/A15	D106 x H256 ± 1mm	AGI3000	1680	29W	58	15°
244189 Halo C31050X/AGI3500/29W/93/A15	D106 x H256 ± 1mm	AGI3500	1820	29W	63	15°
244190 Halo C31050X/AGI4000/29W/93/A15	D106 x H256 ± 1mm	AGI4000	1960	29W	68	15°
244191 Halo C31050X/AGI3000/29W/93/A30	D106 x H256 ± 1mm	AGI3000	1680	29W	58	30°
244192 Halo C31050X/AGI3500/29W/93/A30	D106 x H256 ± 1mm	AGI3500	1820	29W	63	30°
244193 Halo C31050X/AGI4000/29W/93/A30	D106 x H256 ± 1mm	AGI4000	1960	29W	68	30°
244194 Halo C31050X/AGI3000/29W/93/A45	D106 x H256 ± 1mm	AGI3000	1680	29W	58	45°
244195 Halo C31050X/AGI3500/29W/93/A45	D106 x H256 ± 1mm	AGI3500	1820	29W	63	45°
244196 Halo C31050X/AGI4000/29W/93/A45	D106 x H256 ± 1mm	AGI4000	1960	29W	68	45°
244197 Halo C31050X/AGI3000/29W/93/A60	D106 x H256 ± 1mm	AGI3000	1680	29W	58	60°
244198 Halo C31050X/AGI3500/29W/93/A60	D106 x H256 ± 1mm	AGI3500	1820	29W	63	60°
244199 Halo C31050X/AGI4000/29W/93/A60	D106 x H256 ± 1mm	AGI4000	1960	29W	68	60°
CRI 95						
244140 Halo C31050X/FAS/27W/95/A15	D106 x H256 ± 1mm	FAS	2080	27W	78	15°
244141 Halo C31050X/FAS/27W/95/A30	D106 x H256 ± 1mm	FAS	2080	27W	78	30°
244142 Halo C31050X/FAS/27W/95/A45	D106 x H256 ± 1mm	FAS	2080	27W	78	45°
244143 Halo C31050X/FAS/27W/95/A60	D106 x H256 ± 1mm	FAS	2080	27W	78	60°
CRI 98						
244148 Halo C31050X/ART3000/27W/98/A15	D106 x H256 ± 1mm	ART3000	1995	27W	74	30°
244149 Halo C31050X/ART3000/27W/98/A30	D106 x H256 ± 1mm	ART3000	1995	27W	74	30°
244150 Halo C31050X/ART3000/27W/98/A45	D106 x H256 ± 1mm	ART3000	1995	27W	74	45°
244151 Halo C31050X/ART3000/27W/98/A60	D106 x H256 ± 1mm	ART3000	1995	27W	74	60°

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