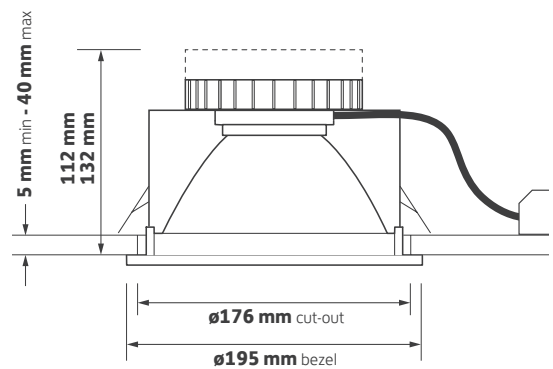


Key Features

- ▶ Multi-faceted reflector with an outstanding optical efficiency of 93%
- ▶ Die-cast twist and lock bezel with interchangeable accessories
- ▶ Matched with Philips Xitanium drivers for optimum performance
- ▶ IP65 bezel options
- ▶ Dimming and emergency conversion options
- ▶ Life >60,000 hours (L70 / B10)

Technical Drawing



Ordering Information

Output	Power	Colour	Model Ref.
1050 lm	11 W	830	90.1100.30
1050 lm	11 W	840	90.1100.40
2000 lm	20 W	830	90.2000.30
2000 lm	20 W	840	90.2000.40
2975 lm	31 W	830	90.3000.30
2975 lm	30 W	840	90.3000.40
4650 lm	48 W	830	90.5000.30
4650 lm	48 W	840	90.5000.40

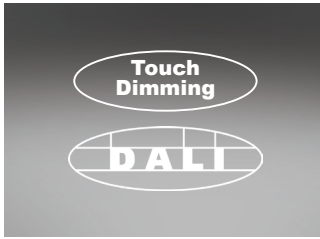
Please select from the options below.

TA300 bezel options	/WH /CH /BA
Touch dimming / DALI	/T+DALI
IP65 bezel option	/65
EM conversion	/EM
Self-test EM conversion	/EMS
DALI EM conversion	/EMD
Integral indicator for EM conversion	I
Single Point Connection to an ILEM product	/SPC
Please see accessories sheet	Accessories

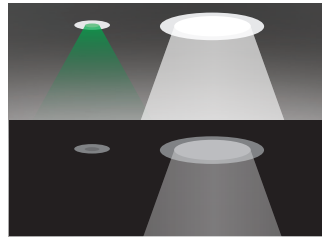


90 Series Options and Accessories

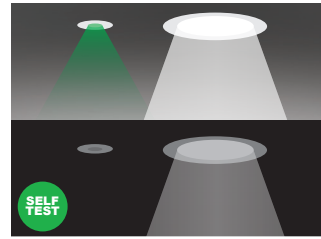
Options



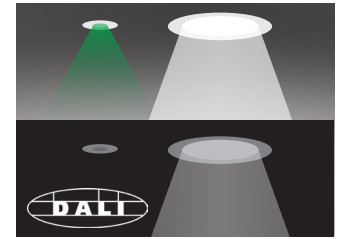
/T+DALI
Touch dimming / DALI



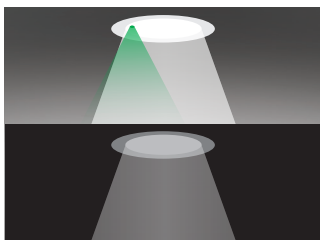
/EM
EM conversion



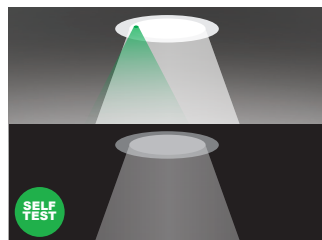
/EMS
Self-test EM conversion



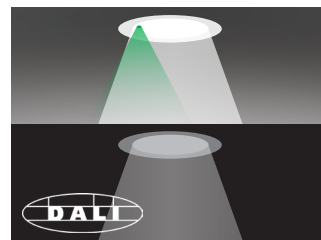
/EMD
DALI EM conversion



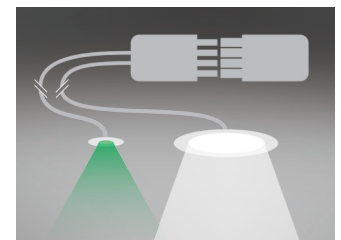
EMI
Integral indicator for EM conversion



EMSI
Integral indicator for self-test EM conversion



EMDI
Integral indicator for DALI EM conversion

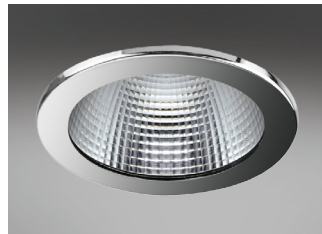


/SPC
Single Point Connection to an ILEM product

Bezel Finish



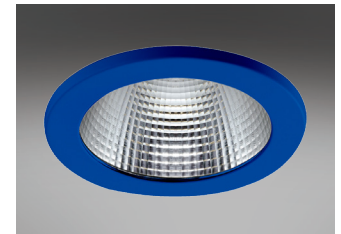
TA300/WH
White bezel - RAL9010



TA300/CH
Chrome bezel



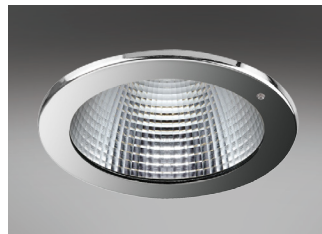
TA300/BA
Brushed aluminium bezel



Product variations
Other colours and specifications available on request



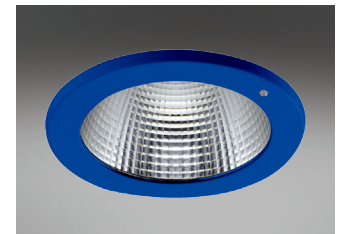
AT300/WH
White anti-tamper bezel



AT300/CH
Chrome anti-tamper bezel



AT300/BA
Brushed aluminium anti-tamper bezel

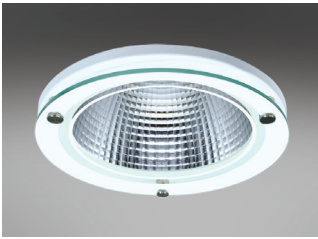


Product variations
Other colours and specifications available on request

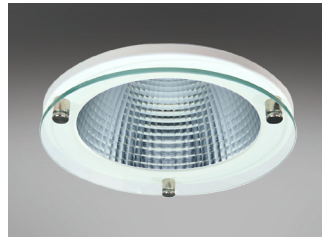
90 Series Options and Accessories

Decorative Bezel

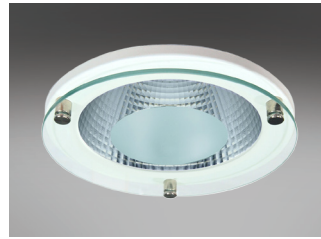
White /WH Chrome /CH Brushed Aluminium /BA



TA301
White bezel complete with outer etched glass



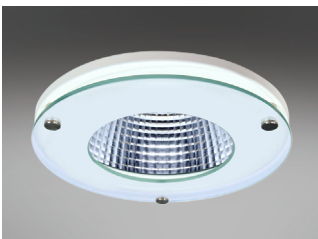
TA302
White bezel complete with clear glass



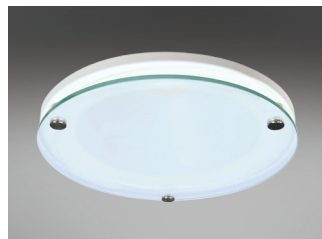
TA303
White bezel complete with centre etched glass



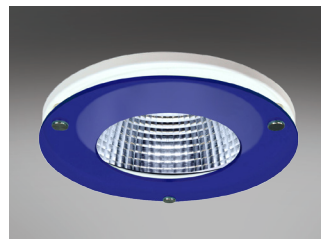
TA305
White bezel complete with clear halo glass



TA306
White bezel complete with etched halo glass



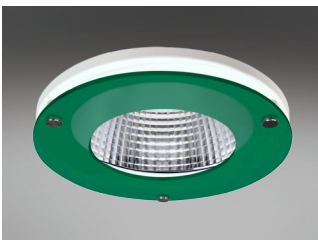
TA307
White bezel complete with fully etched glass



TA312
White bezel complete with blue etched halo



TA313
White bezel complete with red acrylic halo



TA314
White bezel complete with green acrylic halo

Corona Bezel

White /WH Chrome /CH Brushed Aluminium /BA



CB301
White corona bezel with outer etched glass



CB302
White corona bezel with clear glass



CB303
White corona bezel with centre etched glass

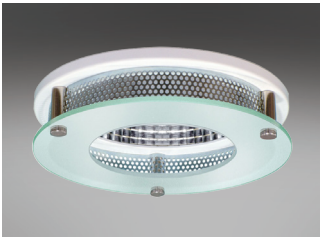


CB305
White corona bezel with clear halo glass

90 Series Options and Accessories

Corona Bezel

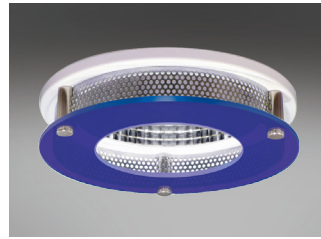
Continued



CB306
White corona bezel with etched halo glass



CB307
White corona bezel with fully etched glass



CB312
White corona bezel with blue acrylic halo



CB313
White corona bezel with red acrylic halo



CB314
White corona bezel with green acrylic halo

IP65 Bezel



/65
Universal bezel to accept IP65 accessories



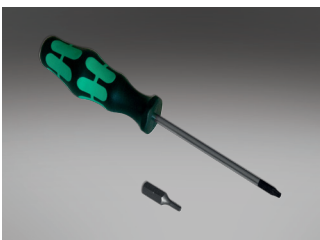
IP65/002/195
IP65 Clear glass



IP65/008/195
IP65 Opal polycarbonate



IP65/009/195
IP65 Clear polycarbonate



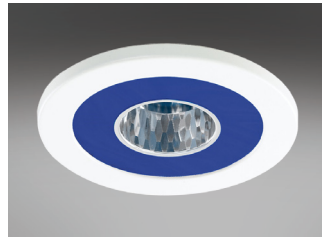
GF008 / GF010
Anti-tamper driver / Anti-tamper bit for IP65 bezel

90 Series Options and Accessories

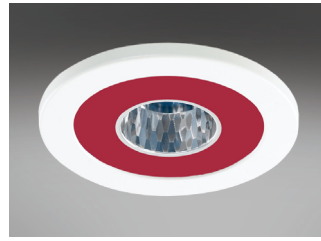
Accessories



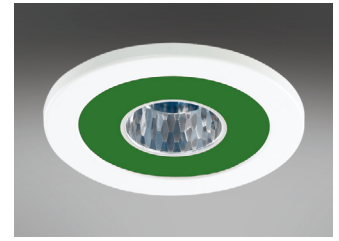
TA351
Etched glass mini reflector



TA352/BLUE
Blue lens mini reflector



TA352/RED
Red lens mini reflector



TA352/GREEN
Green lens mini reflector



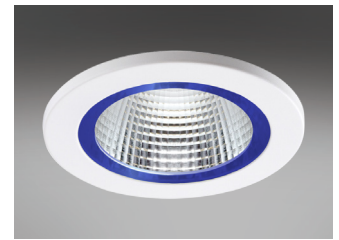
TA310/FROST
Frosted vertical halo



TA310/BLUE
Blue vertical halo



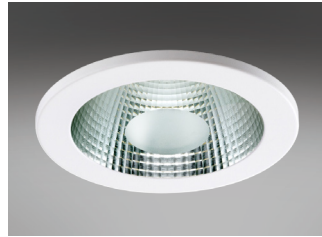
TA384
Frosted hi-light



TA385
Blue hi-light



TA340
IP54 Clear glass



TA341
IP54 Centre etched glass



TA342
IP54 Full etched glass



TA343
IP54 Clear polycarbonate



TA344
IP54 Opal polycarbonate



TA316
IP54 Glass scatter dome



TA317
IP44 Prismatic lens



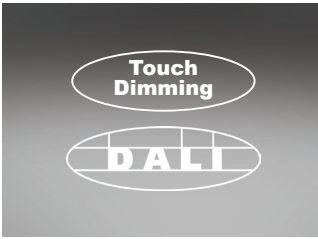
GF208 / GF218
Anti-tamper driver / Anti-tamper bit



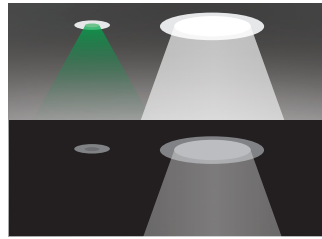
HALOKIT.002
Halo kit - maximum cut-out 250 mm

90 Series Options and Accessories

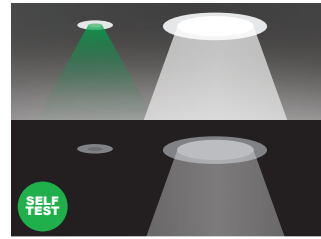
Options



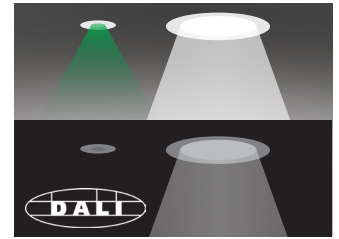
/T+DALI
Touch dimming / DALI



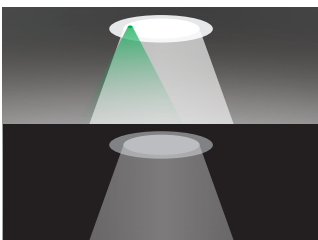
/EM
EM conversion



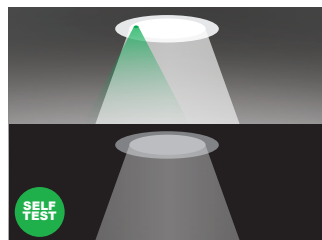
/EMS
Self-test EM conversion



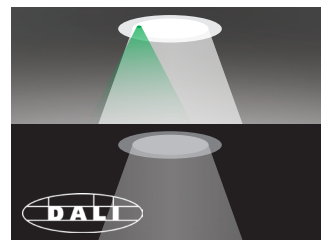
/EMD
DALI EM conversion



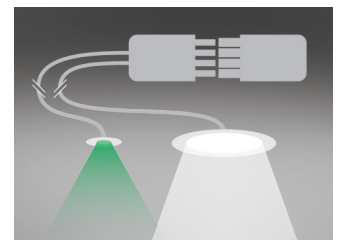
EMI
Integral indicator for EM conversion



EMSI
Integral indicator for self-test EM conversion



EMDI
Integral indicator for DALI EM conversion

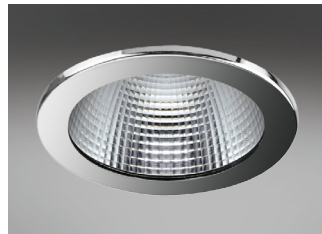


/SPC
Single Point Connection to an ILEM product

Bezel Finish



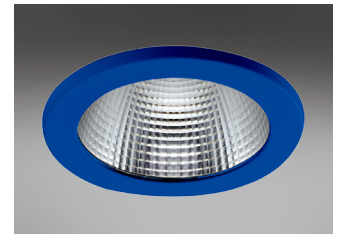
TA300/WH
White bezel - RAL9010



TA300/CH
Chrome bezel



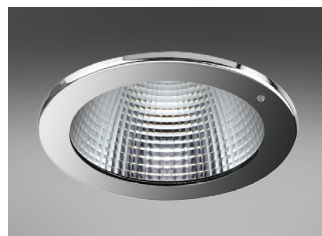
TA300/BA
Brushed aluminium bezel



Product variations
Other colours and specifications available on request



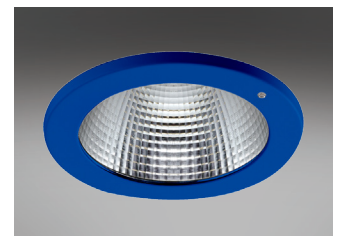
AT300/WH
White anti-tamper bezel



AT300/CH
Chrome anti-tamper bezel



AT300/BA
Brushed aluminium anti-tamper bezel

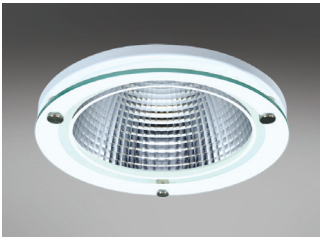


Product variations
Other colours and specifications available on request

90 Series Options and Accessories

Decorative Bezel

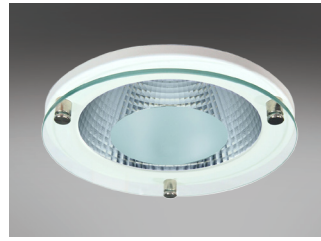
White /WH Chrome /CH Brushed Aluminium /BA



TA301
White bezel complete with outer etched glass



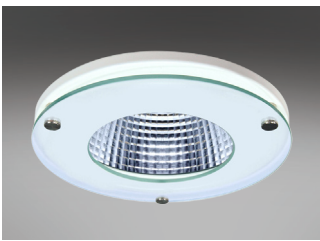
TA302
White bezel complete with clear glass



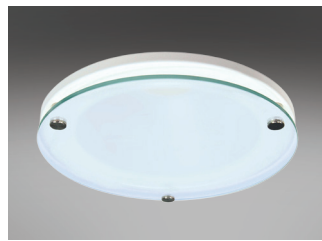
TA303
White bezel complete with centre etched glass



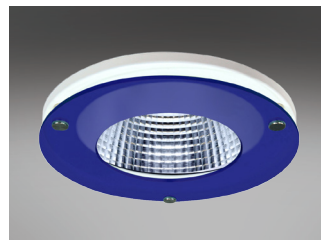
TA305
White bezel complete with clear halo glass



TA306
White bezel complete with etched halo glass



TA307
White bezel complete with fully etched glass



TA312
White bezel complete with blue etched halo



TA313
White bezel complete with red acrylic halo



TA314
White bezel complete with green acrylic halo

Corona Bezel

White /WH Chrome /CH Brushed Aluminium /BA



CB301
White corona bezel with outer etched glass



CB302
White corona bezel with clear glass



CB303
White corona bezel with centre etched glass



CB305
White corona bezel with clear halo glass

90 Series Options and Accessories

Corona Bezel

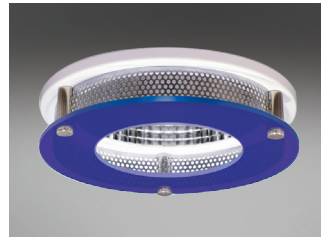
Continued



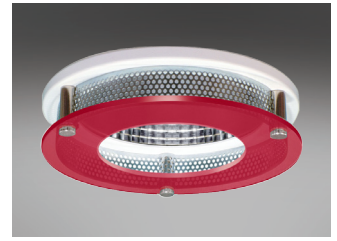
CB306
White corona bezel with etched halo glass



CB307
White corona bezel with fully etched glass



CB312
White corona bezel with blue acrylic halo



CB313
White corona bezel with red acrylic halo



CB314
White corona bezel with green acrylic halo

IP65 Bezel



/65
Universal bezel to accept IP65 accessories



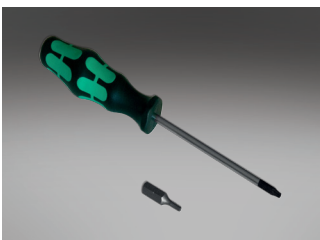
IP65/002/195
IP65 Clear glass



IP65/008/195
IP65 Opal polycarbonate



IP65/009/195
IP65 Clear polycarbonate



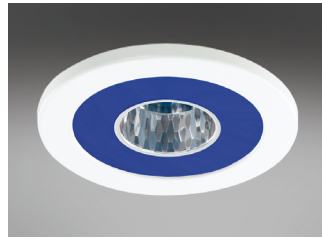
GF008 / GF010
Anti-tamper driver / Anti-tamper bit for IP65 bezel

90 Series Options and Accessories

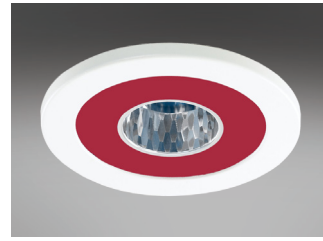
Accessories



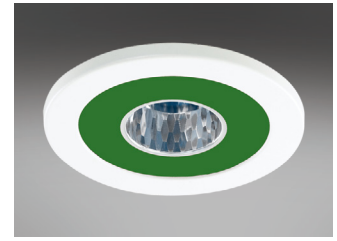
TA351
Etched glass mini reflector



TA352/BLUE
Blue lens mini reflector



TA352/RED
Red lens mini reflector



TA352/GREEN
Green lens mini reflector



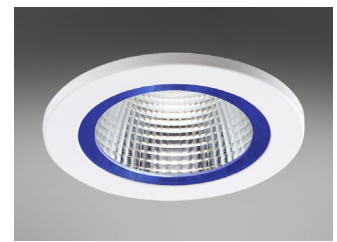
TA310/FROST
Frosted vertical halo



TA310/BLUE
Blue vertical halo



TA384
Frosted hi-light



TA385
Blue hi-light



TA340
IP54 Clear glass



TA341
IP54 Centre etched glass



TA342
IP54 Full etched glass



TA343
IP54 Clear polycarbonate



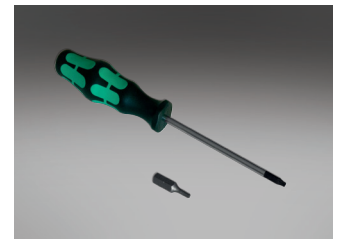
TA344
IP54 Opal polycarbonate



TA316
IP54 Glass scatter dome



TA317
IP44 Prismatic lens



GF208 / GF218
Anti-tamper driver / Anti-tamper bit



HALOKIT.002
Halo kit - maximum cut-out 250 mm

90 Series Technical

Technical Information

Nominal weight	1.8 kg	Operating ambient temperature	-25°C to +35°C
Mains voltage	220 - 240 V	Mains lead	500 mm LSF
Mains frequency	50 - 60 Hz	Dimming lead	500 mm 2 core LSF
Ingress protection from front	IP20	Warranty	5 years
Ingress protection from rear	IP20	Power factor	>0.9
Optical efficiency (DLOR)	93%	Colour rendering	R_a 80
MacAdam	3 SDCM		

Model Ref.	Module Power (W)	Module Output (lm)	Module Efficacy (lm/W)	Luminaire Power (W)	Luminaire Output (lm)	Luminaire Efficacy (lm/W)	Colour Temp (K)	UGR
90.1100.30	8.7	1083	98.5	11.0	1007	91.6	3000	14.7
90.1100.40	8.7	1177	107.0	11.0	1094	99.5	4000	15.0
90.2000.30	17.4	2073	105.2	19.7	1928	97.9	3000	16.9
90.2000.40	17.4	2252	114.3	19.7	2094	106.3	4000	17.2
90.3000.30	26.0	3076	99.2	31.0	2861	92.3	3000	18.3
90.3000.40	25.9	3335	111.2	30.0	3102	103.4	4000	18.6
90.5000.30	42.5	4802	100.0	48.0	4466	93.0	3000	19.9
90.5000.40	42.5	5210	108.5	48.0	4845	100.9	4000	20.1

90 Series Life

25°C Ta (Ambient Temperature)

Model Ref.	L90 / B10	L80 / B10	L70 / B10
90.1100.30	20,000 h	43,000 h	>60,000 h
90.1100.40	20,000 h	43,000 h	>60,000 h
90.2000.30	20,000 h	43,000 h	>60,000 h
90.2000.40	20,000 h	43,000 h	>60,000 h
90.3000.30	18,000 h	39,000 h	>60,000 h
90.3000.40	18,000 h	39,000 h	>60,000 h
90.5000.30	18,000 h	39,000 h	>60,000 h
90.5000.40	18,000 h	39,000 h	>60,000 h

“**L VALUE**” = % of initial lumens maintained after specified time

“**B VALUE**” = % of fittings that will have depreciated below the L value after specified time

EXAMPLE

- 50,000 hrs L70 / B50 = 70% of initial lumens maintained after 50,000 hours
= 50% of fittings will have depreciated below 70% of the initial lumens after 50,000 hours
OR
= 50% of fittings will have maintained 70% of the initial lumens after 50,000 hours