

HALOSCAN



Haloscan is a family of accent lights that come semi-recessed or fully recessed. Designed around its flat optics, Haloscan combines ultra-minimalistic looks with a pleasurable light effect. The light is softly spread by the plane lens, creating up to 4 different beam angles, from spot to floodlight and even linear light. To smoothly turn and tilt, Haloscan uses the Ex-Centric Rotation System, an asymmetrical hinge that combines rotating and tilting abilities in one swift move.

Specification	NS	CL
LED Aperture:	1 1/4"	
Ceiling Cut-out:	2 3/4"	2"
Ceiling Thickness:	Min. 1/32"	N/A
Adjustability:	Adjustable 0-45° / 355°	
Rating:	IP20	

Performance	STATIC CCT	SOFT DIM
LED Maintenance:	L90>50,000h	L90>50,000h
McAdam Step:	1	2
CRI:	90	90
LP:	5.8W	
MP:	8.6W	6W
HP:	11.6W	11.8W

Delivered Lumens:	2700K	3000K	3500K	3000-1800K
**See page 3 for full details	21°	21°	21°	21°
HALOSCAN LP:	591Lm	612Lm	634Lm	
HALOSCAN MP:	821Lm	850Lm	880Lm	468Lm
HALOSCAN HP:	1195Lm	1249Lm	1294Lm	1071Lm

Listing

ETL certified to US and Canadian safety standards. Air Tight certified in accordance with ASTM E283-2004.

Warranty

5-year limited warranty.

Ordering

ALL BOXES MUST BE FILLED IN TO CORRECTLY ORDER

Example: HLS82-HP3521A-B-CLRSIAT_RMTD1-120

		-				-		-			
--	--	---	--	--	--	---	--	---	--	--	--

Luminaire	Size	Power	CCT	Optic	Function	Finish	Style	Installation	Applications	Controls***	
HLS HALOSCAN	82 82mm / 3½" diameter	LP ⁽¹⁾ Low Power	27 2700K	14 14°	A Adjustable	B Black	CL Clip semi-recessed with stem	FL Flush kit for mud into drywall	IAT ⁽²⁾ New Construction IC Airtight	0-10V dim 120V D1-277 0-10V dim 277V D8-120 ⁽³⁾ FE ELV dim 120V	
		MP Medium Power	30 3000K	21 21°		W White			RS Surface trim for rigid surface		RMT ⁽²⁾ Remote Power Supply
		HP High Power	35 3500K	35 35°							
		MP Medium Power	SD 3000-1800K	NS No stem		ST Semi- recessed with small trim	IAT ⁽²⁾ New Construction-IC Airtight				
		HP High Power	NPF New Construction-NON-IC Plasterframe								
									REM Remodel Non-IC		

1 Only available in Style CL

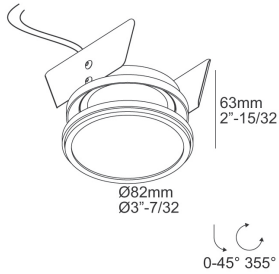
2 Provided with UNV driver when using Controls D1

3 Not available Power LP, Style CL in Application IAT; Not available Power MP with CCT SD, Style CL

*** Contact factory for additional dimming options

Finish Options

HALOSCAN NS

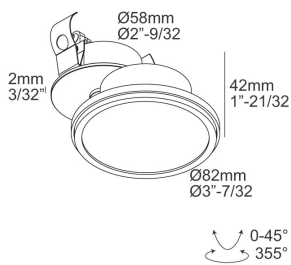


WHITE



BLACK

HALOSCAN CL

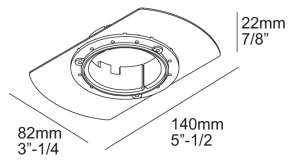


WHITE



BLACK

FL - Mounting Kit Flush (Only for HALOSAN CL)



Accessories



HONEYCOMB



LINEAR SPREAD



CAP

Only for HALOSCAN CL with
Power MP



CAP

Only for HALOSCAN CL with
Power MP

HONEYCOMB - 23110 0050

LINEAR SPREAD LENS - 23110 0040

CAP (BLACK) MP-23110 0060 B

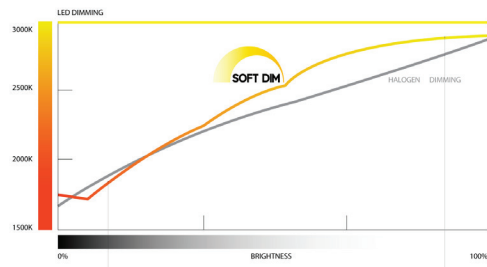
CAP (WHITE) MP-23110 0060 W



Performance:	Static CCT	Soft Dim
*LP:	5.8W	
*MP:	8.6W	6W
*HP:	11.6W	11.8W

Delivered Lumens:	2700K			3000K			3500K			3000-1800K		
Optic:	14°	21°	35°	14°	21°	35°	14°	21°	35°	14°	21°	35°
Haloscan LP:	640Lm	591Lm	575Lm	670Lm	612Lm	602Lm	693Lm	634Lm	624Lm			
Haloscan MP:	889Lm	821Lm	799Lm	930Lm	850Lm	836Lm	963Lm	880Lm	866Lm	532Lm	468Lm	478Lm
Haloscan HP:	1185Lm	1195Lm	1178Lm	1239Lm	1249Lm	1231Lm	1284Lm	1294Lm	1275Lm	1062Lm	1071Lm	1056Lm

Figure 10 displays three polar plots showing the distribution of the normalized velocity gradient magnitude $|I|$ (cd/km) for three different cases. The plots are for 14° , 21° , and 35° angles. Each plot shows a yellow shaded region representing the distribution, with contour lines labeled with values. The x-axis is labeled $C0,0$ and the y-axis is labeled $C90,0$. The legend indicates that the yellow color represents $|I|$ (cd/km) and the dashed line represents $\eta = 85\%$, 78% , and 77% respectively.



Soft Dim technology replicates the dimming behavior of a conventional lamp where the color temperature increases in warmth as it is dimmed. This is achieved through the use of specialty selected LEDs of different color temperatures and power types from premium chip manufacturers. Consistency is ensured without complexity with the use of specific and precise LED selection. The LED's selected have color tolerances that are higher than 3 SDCM ensuring module-to-module accuracy.

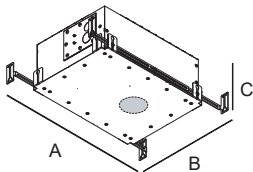


Installation Options

IC AIRTIGHT

S-SMALL:

A: 12"-5/8" x B: 11"-1/16" x C: 4"-13/16"
A: 323mm x B: 281mm x C: 122mm

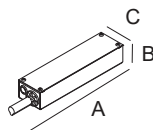


- Low Profile under 5" Height
- New Construction Airtight
- For use in insulated ceiling
- Chicago Plenum
- ETL Listed
- Hangerbar expand to 24"-23/32 or 15"-3/32 - reduce to 12"-23/32 or 9"-1/32
- Damp rated
- Patented System for easy driver service from room side

Remodel NON-IC (Style NS only)

A: 10" x B: 1"-3/8" x C: 2"

A: 254mm x B: 35mm x C: 50mm

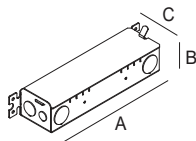


- For Remodel application
- For use in non-insulated ceiling
- ETL Listed
- Damp rated
- Voltage Dedicated (120V or 277V)

Remote Driver (Style CL only - with Controls D8)

A: 8" x B: 2"-1/2" x C: 2"-1/2"

A: 203mm x B: 64mm x C: 64mm

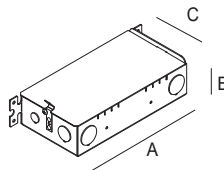


- For Remote application
- ETL Listed
- Damp rated

Remote Driver (Style CL only - with Controls D1)

A: 8" x B: 2"-3/16" x C: 4"-1/4"

A: 203mm x B: 72mm x C: 108mm



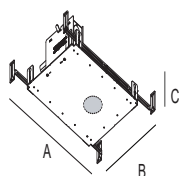
- For Remote application
- ETL Listed
- Damp rated

NIC PLASTERFRAME (Style NS only)

S-SMALL:

A: 12"-23/32" x B: 11"-1/16" x C: 5"

A: 323mm x B: 281mm x C: 127mm



- Low Profile 5" Height
- New Construction
- For use in non-insulated ceiling
- ETL Listed
- Hangerbar expand to 24"-23/32 or 15"-3/32 - reduce to 12"-23/32 or 9"-1/32
- Damp rated
- Voltage Dedicated (120V or 277V)



Driver Options

D1

- Dimming Control 0-10V
- Dimming Range 1-100%
- Dim to off yes at 0.8V, 1V, 1.2V, or N/A
- Power Factor @ Full Load >0.9 under 120Vac Input with 80~100% load condition (for all output currents)
- Efficiency @ Full Load ≥86
- THD @ Full Load <20% under 120Vac input with 80~100% load condition (for all output currents)

Dimmer Compatibility

- Leviton IP710-LFZ / IP710-DLX
- Lutron DDTV/DVSTV/DVSCSTV/DVSCSTV

D8

- Dimming Control Phase Control
- Dimming Range 10-100%
- Dim to off no
- Power Factor @ Full Load >0.9
- Efficiency @ Full Load ≥80
- THD @ Full Load <5%

Dimmer Compatibility

- Leviton IPE04-1LZ
- Lutron DVELV-300P

D8 (With Power HP)

- Dimming Control Phase Control
- Dimming Range 20-100%
- Dim to off yes
- Power Factor @ Full Load >0.9
- Efficiency @ Full Load ≥80
- THD @ Full Load <10%

Dimmer Compatibility

- Leviton IPE04-1LZ
- Lutron DVELV-300P

As technology changes, please use information above as guidance. For most recent updated information please contact factory. Specifications subject to change without notice.