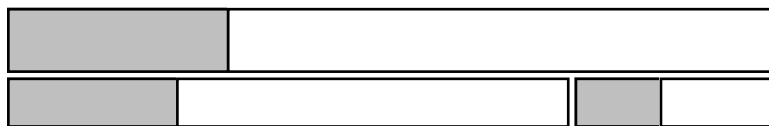
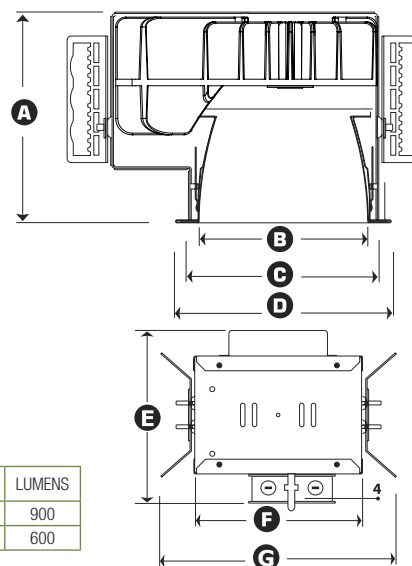


# HH4SQ-LED 4" ARCHITECTURAL LED SQUARE DOWNLIGHT



**NEW**  
**900 LUMENS**



- A** Height = 5-1/2"
- B** Trim Aperture = 4-1/2"
- C** Cut-out = 5-1/8"
- D** Trim Outside Dia. = 5-3/4"
- E** Width = 7-3/4"
- F** Length = 7-1/8"
- G** Max. Length = 10"

INPUT VOLT.	INPUT FREQ.	INPUT CUR.	INPUT POWER	THD	POWER FACTOR	LUMENS
120/277	50/60Hz	133mA/57mA	16W(+/-5%)	<20%	>0.9	900
120/277	50/60Hz	116mA/50mA	14W(+/-5%)	<20%	>0.9	600

**DESCRIPTION** - 4" Square LED dedicated New Construction housing with integral LED heat management casting and driver (installed on junction box). Available in 600 lumens (14W) & 900 lumens (16W). Lighting is smooth and comfortable while using 75% less energy than the equivalent 65W BR30 and 25% less than the common 18W CFL. Plus, the eco-friendly MAXILUME LED system features 70% lumen maintenance at 50,000 hours life, with Energy Star and California Title-24 (compliances pending).

**FEATURES** - Greater light output than an 18W CFL or a 65W BR30 while consuming less than 14W & 16W of power. MAXILUME LED luminaires are ideally suited for use in hospitality, health care, commercial, institution, retail and residential applications.



**OPTICS** - Anyone can mount a chip to a heat sink and make a downlight. Gather the light scattered by the LED chip, shape it into a functional beam with state of the art reflectors, integrate the light through a smooth lens to minimize brightness, then top it all of with a glare reducing reflector that has a 55-degree cut-off. Now you have the Elite engineered superior quality, light engine; producing 600 lumens (14W) & 900 lumens (16W).

**DURABILITY** - Die-cast aluminum housing and heat management system are engineered for extremely long life and service period. Heat sink is attached to top of housing. The LED light engine is attached to the die-cast heat sink and is easily replaceable and upgradable. Life tests have shown the Elite light engine output will be maintained at 70% of initial at 50,000 hours of operation. Our LED driver is rated for 50 to 60 Hz at 120V input, produces less than 20% THD, has a power factor between 0.90 and 1.00 and is thermally protected for additional safety. Elite's driver is installed on the junction box cover so it may be serviced from below the ceiling.

**REPEATABLE** - Repeatability means quality. From our chip selection process, to our driver, to the thermal management, the MAXILUME LED Module is engineered for quality. All MAXILUME LED luminaires are rated at 85+ CRI and tested to LM-79 and LM-80 standards by a certified laboratory. California Title-24-2008 and Energy Star compliance are standard.

**DIMMABLE** - The MAXILUME LED system is fully dimmable down to 10% of initial light output with a 0-10 Volt dimmer when ordered with the following options (DIM10-120, DIM10-277). Fixtures can be shipped with a Lutron Hi-lume A series Driver which can be dimmed with Lutron Dimming Systems when ordered with the following options (LUTH-120, LUTH-277). Triac & Electronic Low Voltage dimming driver also available when ordered with the following options (DIMTR-120). Consult Factory for details.

**MOUNTING FRAME** - Die-formed construction for maximum heat dissipation and rust protection.

**MOUNTING BRACKET** - Constructed from 16 gauge steel. Can be installed with 3/4" or 1-1/2" lathing channel, 1/2" EMT, or with optional C-channel mounting bars (Part# BP31) ordered separately. Housing can be adjusted from the inside of the ceiling.

**RETAINING SPRINGS** - Precision tooled springs secure trim to mounting frame, for effortless and tool-less installation.

**JUNCTION BOX** - UL Listed for through-branch circuit wiring, provided with four 1/2" knockouts, one 3/4" knockout and four Romex knockouts with true pry-out slots and strain clamps. Designed for straight through conduit runs. Driver is installed on the junction box cover so it may be serviced from below the ceiling.

**THERMAL PROTECTION** - Standard thermal protection device guards against improper installation and misuse of insulation material.

**OUR WORD** - The MAXILUME LED lighting system is warranted for 5 years. As a system, we stand behind the entire MAXILUME product from housing to bar hangers.

**LISTING**

c-UL-us / c-ETL-us - listed for Damp location. Feed Through Wiring. LM79 / LM80

**DIMMING INFORMATION**

DIMTR (Triac & Electronic Low Voltage Dimming)  
DIM10 (0-10V Dimming)  
LUTH (Lutron® Hi-lume® Dimming)

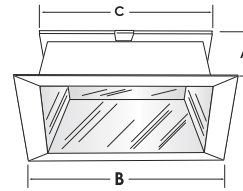
TYPE	600 LUMENS	900 LUMENS	COLOR	EMERGENCY	OPTION	TRIM TYPE	REFLECTOR/ RING FINISH	
HH4SQ-LED	<input type="checkbox"/> 14W-DIMTR-120 <input type="checkbox"/> 14W-LUTH-120 <input type="checkbox"/> 14W-LUTH-277 <input type="checkbox"/> 14W-DIM10-120 <input type="checkbox"/> 14W-DIM10-277	<input type="checkbox"/> 16W-LUTH-120 <input type="checkbox"/> 16W-LUTH-277 <input type="checkbox"/> 16W-DIM10-120 <input type="checkbox"/> 16W-DIM10-277	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K	<input type="checkbox"/> EMG-LED (Must have ceiling access for maintenance)	<input type="checkbox"/> BP31 (C-Channel Bar Hanger)	<input type="checkbox"/> LED-4601 <input type="checkbox"/> LED-4607	<input type="checkbox"/> LED-4614 <input type="checkbox"/> LED-4615	<input type="checkbox"/> CL-WH <input type="checkbox"/> CL-SCH <input type="checkbox"/> SHZ-SHZ <input type="checkbox"/> SHZ-WH <input type="checkbox"/> W-WH <input type="checkbox"/> MB-WH <input type="checkbox"/> WT-WH

**LED-4601-CL - REFLECTOR**



**REFLECTOR/ RING FINISH:**

- CL-WH    CL-SCH
- SHZ-WH    WT-WH
- W-WH    SHZ-SHZ
- MB-WH



**A** = 3-1/8"  
**B** = 5-3/4"  
**C** = 4-5/8"

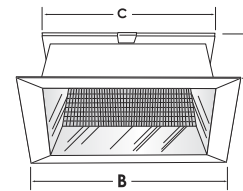


**LED-4607-CL - WALL WASH REFLECTOR WITH LENS**



**REFLECTOR/ RING FINISH:**

- CL-WH    CL-SCH
- SHZ-WH    WT-WH
- W-WH    SHZ-SHZ
- MB-WH



**A** = 3-1/8"  
**B** = 5-3/4"  
**C** = 4-5/8"

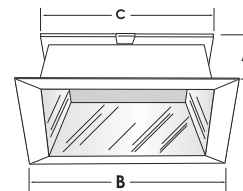


**LED-4614-CL - REFLECTOR WITH FROSTED GLASS LENS**



**REFLECTOR/ RING FINISH:**

- CL-WH    CL-SCH
- SHZ-WH    WT-WH
- W-WH    SHZ-SHZ
- MB-WH



**A** = 3-1/8"  
**B** = 5-3/4"  
**C** = 4-5/8"

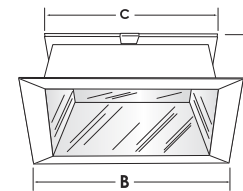


**LED-4615-CL - REFLECTOR WITH TEMPERED GLASS LENS**



**REFLECTOR/ RING FINISH:**

- CL-WH    CL-SCH
- SHZ-WH    WT-WH
- W-WH    SHZ-SHZ
- MB-WH



**A** = 3-1/8"  
**B** = 5-3/4"  
**C** = 4-5/8"



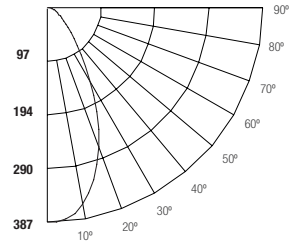
HH4SQ-LED-14W-4601-SHZ-SHZ

INPUT WATTS: 14 LUMENS: 580 CRI: +85 EFFICACY: 41.42 CCT: 4000K

TEST NO.: ELT-261

SPACING CRITERIA: 1.24

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Table with 4 columns: Zone, Lumens, %Lamp, %Fixt. Rows for zones 0-20, 0-30, 0-40, 0-60, 0-80, 0-90.

Luminance (Average candela/M²)

Table with 4 columns: Angle in Degrees, Average 0°, Average 45°, Average 90°. Rows for angles 45, 55, 65, 75, 85.

Lumens Per Zone

Table with 2 columns: Zone, Lumens. Rows for zones 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Candela Tabulation

Table with 2 columns: Candela, 0. Rows for zones 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Cone of Light table showing beam diameter at 50% of NAIR F.C. for distances 4.0, 8.0, 12.0, 16.0, 20.0.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Large table with columns for RC, RW, and various reflectance percentages (80%, 70%, 50%, 30%, 10%, 0%). Rows for ROOM CAVITY RATIO 0-10.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

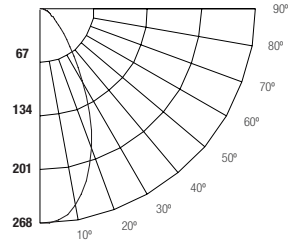
HH4SQ-LED-14W-4607-SHZ-SHZ

INPUT WATTS: 14 LUMENS: 220 CRI: +85 EFFICACY: 20 CCT: 4000K

TEST NO.: ELT-264

SPACING CRITERIA: 0.76

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Table with 4 columns: Zone, Lumens, %Lamp, %Fixt. Rows for zones 0-20, 0-30, 0-40, 0-60, 0-80, 0-90.

Luminance (Average candela/M²)

Table with 4 columns: Angle in Degrees, Average 0°, Average 45°, Average 90°. Rows for angles 45, 55, 65, 75, 85.

Lumens Per Zone

Table with 2 columns: Zone, Lumens. Rows for zones 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Candela Tabulation

Table with 2 columns: Candela, 0. Rows for zones 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Cone of Light table showing beam diameter at 50% of NAIR F.C. for distances 4.0, 8.0, 12.0, 16.0, 20.0.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Large table with columns for RC, RW, and various reflectance percentages (80%, 70%, 50%, 30%, 10%, 0%). Rows for ROOM CAVITY RATIO 0-10.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

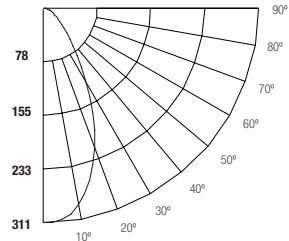
HH4SQ-LED-14W-4614-SHZ-SHZ

INPUT WATTS: 14 LUMENS: 459 CRI: +85 EFFICACY: 32.78 CCT: 4000K

TEST NO.: ELT-265

SPACING CRITERIA: 0.74

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Table with 4 columns: Zone, Lumens, %Lamp, %Fixt. Rows for zones 0-20, 0-30, 0-40, 0-60, 0-80, 0-90.

Luminance (Average candela/M²)

Table with 4 columns: Angle in Degrees, Average 0°, Average 45°, Average 90°. Rows for angles 45, 55, 65, 75, 85.

Lumens Per Zone

Table with 2 columns: Zone, Lumens. Rows for zones 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Candela Tabulation

Table with 2 columns: Candela, 0. Rows for zones 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Cone of Light table showing beam diameter at 50% of NAIR F.C. for distances 4.0, 8.0, 12.0, 16.0, 20.0.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Large table with columns for RC, RW, and various reflectance percentages (80%, 70%, 50%, 30%, 10%, 0%). Rows for ROOM CAVITY RATIO 0-10.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

HH4SQ-LED-16W-4601-SHZ-SHZ

TEST NO.: ELT-00250

INPUT WATTS: 16.4

LUMENS: 911

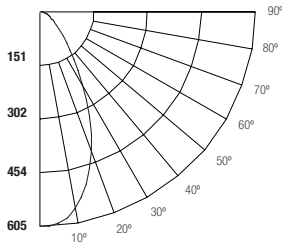
CRI: +85

EFFICACY: 57

CCT: 4000K

SPACING CRITERIA: 1.26

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Table with columns: Zone, Lumens, %Lamp, %Fixt. Rows: 0-20, 0-30, 0-40, 0-60, 0-80, 0-90.

Luminance (Average candela/M²)

Table with columns: Angle in Degrees, Average 0°, Average 45°, Average 90°. Rows: 45, 55, 65, 75, 85.

Lumens Per Zone

Table with columns: Zone, Lumens. Rows: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Candela Tabulation

Table with columns: 0, 5, 15, 25, 35, 45, 55, 65, 75, 85, 90. Rows: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Cone of Light table with columns: Distance to Plane, Initial Footcandle at Nadir, Beam diameter. Rows: 4.0, 8.0, 12.0, 16.0, 20.0.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Large table for Coefficients of Utilization with columns: RC, RW, 80%, 70%, 50%, 30%, 10%, 0%. Rows: ROOM CAVITY RATIO 0-10.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

HH4SQ-LED-16W-4607-SHZ-SHZ

TEST NO.: ELT-00251

INPUT WATTS: 16.4

LUMENS: 372

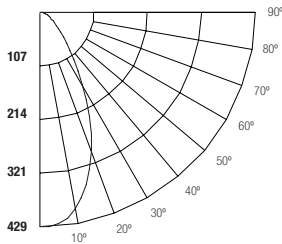
CRI: +85

EFFICACY: 23.25

CCT: 4000K

SPACING CRITERIA: 1.00

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Table with columns: Zone, Lumens, %Lamp, %Fixt. Rows: 0-20, 0-30, 0-40, 0-60, 0-80, 0-90.

Luminance (Average candela/M²)

Table with columns: Angle in Degrees, Average 0°, Average 45°, Average 90°. Rows: 45, 55, 65, 75, 85.

Lumens Per Zone

Table with columns: Zone, Lumens. Rows: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Candela Tabulation

Table with columns: 0, 5, 15, 25, 35, 45, 55, 65, 75, 85, 90. Rows: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Cone of Light table with columns: Distance to Plane, Initial Footcandle at Nadir, Beam diameter. Rows: 4.0, 8.0, 12.0, 16.0, 20.0.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Large table for Coefficients of Utilization with columns: RC, RW, 80%, 70%, 50%, 30%, 10%, 0%. Rows: ROOM CAVITY RATIO 0-10.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

HH4SQ-LED-16W-4614-SHZ-SHZ

TEST NO.: ELT-00252

INPUT WATTS: 16.4

LUMENS: 709

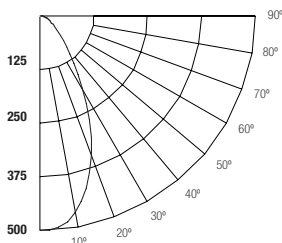
CRI: +85

EFFICACY: 44.30

CCT: 4000K

SPACING CRITERIA: 1.12

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Table with columns: Zone, Lumens, %Lamp, %Fixt. Rows: 0-20, 0-30, 0-40, 0-60, 0-80, 0-90.

Luminance (Average candela/M²)

Table with columns: Angle in Degrees, Average 0°, Average 45°, Average 90°. Rows: 45, 55, 65, 75, 85.

Lumens Per Zone

Table with columns: Zone, Lumens. Rows: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Candela Tabulation

Table with columns: 0, 5, 15, 25, 35, 45, 55, 65, 75, 85, 90. Rows: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90.

Cone of Light table with columns: Distance to Plane, Initial Footcandle at Nadir, Beam diameter. Rows: 4.0, 8.0, 12.0, 16.0, 20.0.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Large table for Coefficients of Utilization with columns: RC, RW, 80%, 70%, 50%, 30%, 10%, 0%. Rows: ROOM CAVITY RATIO 0-10.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance