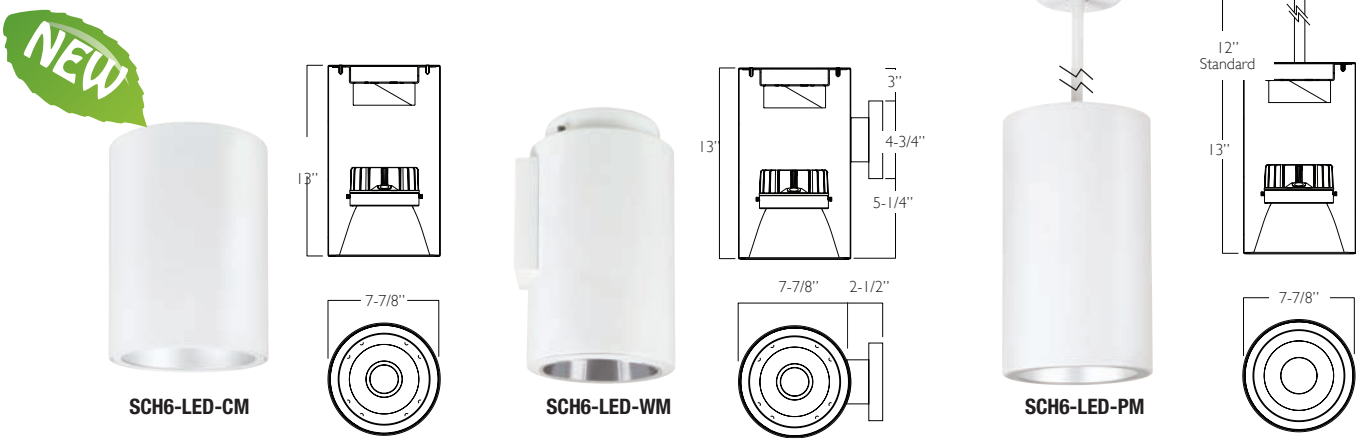
SCH6-LED 6” ARCHITECTURAL CYLINDER LED DOWNLIGHT

Catalog Number	SCH6-LED
Project Name	Type



3000 LUMENS

INPUT VOLT.	INPUT FREQ.	INPUT CUR.	INPUT POWER	THD	POWER FACTOR	LUMENS
120/277	50/60Hz	333mA/144mA	40W(+/-5%)	<20%	>0.9	3000
120/277	50/60Hz	266mA/115mA	32W(+/-5%)	<20%	>0.9	2000
120/277	50/60Hz	200mA/86mA	24W(+/-5%)	<20%	>0.9	1200
120/277	50/60Hz	150mA/65mA	16W(+/-5%)	<20%	>0.9	900

DESCRIPTION - 6” LED Architectural Cylinder Downlight with integral LED heat management casting and driver (installed on junction box). Available in 900 lumens (16W), 1200 lumens (24W), 2000 lumens (32W) & 3000 lumens (40W). Lighting is smooth and comfortable while using 25% less energy than the common CFL downlight. 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 - Maxilume LED luminaires are ideally suited for use in hospitality, health care, commercial, institutions, retail and other architectural applications.

PROUDLY ASSEMBLED in AMERICA · c UL us LISTED · c ETL us Intertek · TITLE 24 · ENERGY STAR PENDING

OPTICS - MAXILUME LED Optilux technology combines unmatched performance with visual comfort. Spun 0.05” thick reflector has been designed to gather the light scattered by the LED chip and shape it into functional beams that minimize brightness and glare, while eliminating lamp image. Reflector offers a 55 degree cutoff and smooth frost acrylic diffuser distributes light even throughout the workplace.

PERFORMANCE - Operating system delivers 900 lumens (16W), 1200 lumens (24W), 2000 lumens (32W) & 3000 lumens (40W). All MAXILUME LED luminaries are rated at 85+ CRI. Our stringent chip specifications require only those Chips that produce no ultra violet and virtually no infrared. All LED luminaries are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

THERMAL MANAGEMENT SYSTEM - Using a proprietary cooLED Advanced Thermodynamic Design, 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 MAXILUME light engine output will be maintained at 70% of initial at 50,000 hours of operation.

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 (120-LUTH, 277-LUTH). Triac & Electronic Low Voltage dimming driver also available when ordered with the following options (DIMTR-120). Consult Factory for details.

BODY - Post painted die-formed construction for maximum heat dissipation and rust protection. Matte white finish standard.

LED DRIVER/JUNCTION BOX - The LED driver is rated for 50 to 60Hz at 120V /277V input, produces less than 20%THD, and has a power factor between 90% and 100% and is thermally protected for additional safety. MAXILUME’s LED driver is installed on the junction box cover so it may be serviced from below the ceiling. UL Listed for through-branch circuit wiring, provided with four ½” knockouts, one ¾” knockout and four Romex knockouts with true pryout slots and strain clamps.

MOUNTING BRACKET - Ceiling mount bracket provided for direct installation with 3-1/4” to 4” octagonal and square junction box. Pendant mount option is available and supplied with 10-1/2” stem and 5” diameter canopy cover. Ideal for slope applications up to 45 degrees.

OUR WORD - The MAXILUME LED lighting system is warranted for 3 years. As a system, we stand behind the entire MAXILUME products from housing to bar hangers.

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

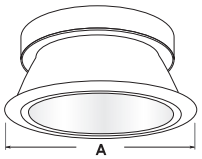
DIMMING INFORMATION
DIM10 (0-10V Dimming)
LUTH (Lutron® Hi-lume® Dimming)
DIMTR (Triac & Electronic Low Voltage Dimming)

SCV6-LED

TYPE	FINISH	16 WATT	24 WATT	32 WATT	40 WATT	OPTICS	EMERGENCY	TRIM TYPE	REF/ RING	DISC
SCH6-LED	☐ WH-WHITE	☐ 900L-LUTH-120	☐ 1200L-LUTH-120	☐ 2000L-LUTH-120	☐ 3000L-LUTH-120	☐ FL	☐ EMG-LED	☐ HH6-6501	☐ CL-WH	☐ BLUE
	☐ BK-BLACK	☐ 900L-LUTH-277	☐ 1200L-LUTH-277	☐ 2000L-LUTH-277	☐ 3000L-LUTH-277			☐ HH6-6507	☐ CL-SCH	☐ RED
MOUNTING	☐ BZ- BRONZE	☐ 900L-DIM10-120	☐ 1200L-DIM10-120	☐ 2000L-DIM10-120	☐ 3000L-DIM10-120	**COLOR**		☐ HH6-6509	☐ SHZ-SHZ	☐ GREEN
☐ CM-Ceiling Mount	☐ SI-SILVER	☐ 900L-DIM10-277	☐ 1200L-DIM10-277	☐ 2000L-DIM10-277	☐ 3000L-DIM10-277	☐ 30K		☐ HH6-6511	☐ SHZ-WH	☐ FROST
☐ WM-Wall Mount						☐ 35K		☐ HH6-6525	☐ W-WH	☐ AL
☐ PM12-12” Pendant Mount						☐ 40K		☐ HH6-6528	☐ MB-WH	☐ BZ
☐ PM18-18” Pendant Mount								☐ HH6-6577	☐ WT-WH	☐ WH
☐ PM24-24” Pendant Mount										
☐ PM36-36” Pendant Mount										
☐ PM48-48” Pendant Mount										

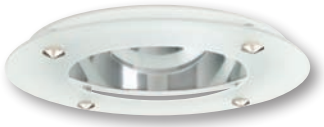
ALL PRODUCTS ARE U.S. AND FOREIGN PATENT PENDING

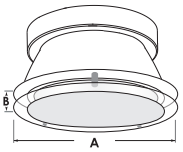
FOR WET LOCATION



EXAMPLE: HH6-6501-CL-WH
HH6-6501 - REFLECTOR WITH DIFFUSE LENS
REFLECTOR/ RING FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

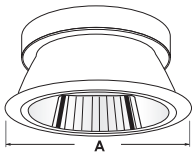
A= 7-1/4"





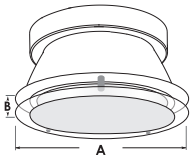
EXAMPLE: HH6-6509-CL-WH
HH6-6509 - DECO GLASS REFLECTOR WITH DIFFUSE LENS
REFLECTOR/ RING FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH
GLASS FINISH:
BLUE, RED, GREEN, FROST

A= 7-1/4"
B= 1-1/4"



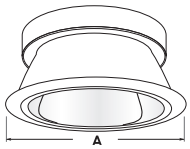
EXAMPLE: HH6-6507-CL-WH
HH6-6507 - WALL WASH REFLECTOR WITH DIFFUSE LENS
REFLECTOR/ RING FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

A= 7-1/4"



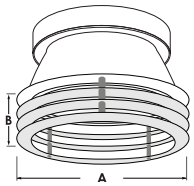
EXAMPLE: HH6-6525-CL-WH
HH6-6525 - CENTRAL ETCHED FLOAT GLASS WITH DIFFUSE LENS
REFLECTOR/ RING FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

A= 7-1/4"
B= 1"



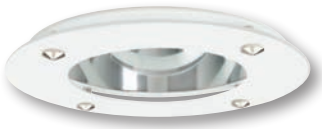
EXAMPLE: HH6-6577-CL-WH
HH6-6577 - DOUBLE WALL WASH REFLECTOR WITH DIFFUSE LENS
REFLECTOR/ RING FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

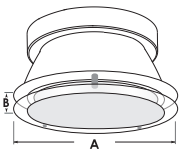
A= 7-1/4"



EXAMPLE: HH6-6511-CL-WH
HH6-6511 - TRIPLE RING GLASS WITH DIFFUSE LENS
REFLECTOR/ RING FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH
GLASS FINISH:
BLUE, RED, GREEN, FROST

A= 7-1/4"
B= 2-1/4"





EXAMPLE: HH6-6528-CL-WH-AL
HH6-6528 - REFLECTOR WITH ALUMINIUM DISC AND DIFFUSE LENS
REFLECTOR FINISH:
CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH
DISC FINISH:
AL, WH, BZ

HH6-6528-CL-W-WH

HH6-6528-CL-WH-BZ

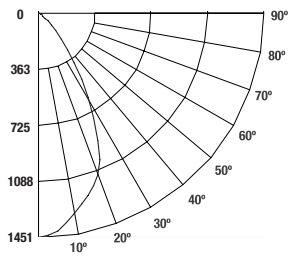
A= 7-1/4"
B= 1-1/4"

SCH6-LED-1200L-DIM10-120-FL-40K-HH6-6501-CL-WH

TEST NO.: **ELT-SCH6-0014**

INPUT WATTS: **24** LUMENS: **1248** CRI: **85+** EFFICACY: **52 LPW** CCT: **4000K** SPACING CRITERIA: **0.90**

Candle Power Distribution Curve (Candela)



Cone of Light		
2.0'	362.66	2.1'
4.0'	90.66	4.3'
6.0'	40.30	6.4'
8.0'	22.67	8.6'
10.0'	14.51	10.7'
12.0'	10.07	12.9'
Distance to Plane	Initial Footcandles at Nadir	Beam Diameter

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	880.3	70.6%	70.6%
0-40	1,130.9	90.7%	90.7%
0-60	1,245.6	99.9%	99.9%
0-90	1,247.5	100%	100%

Luminance (Average Candela/M²)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	8807	8807	8807
55°	2048	2048	2048
65°	119	119	119
75°	0	0	0
85°	0	0	0

Lumens Per Zone

Zone	Lumens
0-10	131.5
10-20	342.5
20-30	406.2
30-40	250.7
40-50	92.8
50-60	21.8
60-70	1.8
70-80	0.1
80-90	0

Candela Distribution

	0
0	1451
5	1412
15	1220
25	907
35	397
45	114
55	21
65	1
75	0
85	0
90	0

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RCC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RCR 0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	58	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	50

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance RW - Wall Reflectance