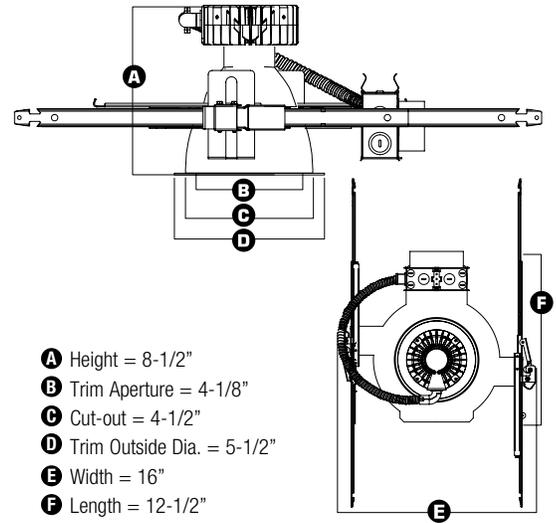


# HV4-LED 4" ARCHITECTURAL LED DOWNLIGHT



**1500 LUMENS**

INPUT VOLT.	INPUT FREQ.	INPUT CUR.	THD	POWER FACTOR	INPUT POWER	LUMENS
120/277	50/60Hz	283mA/122mA	<20%	>0.9	34W(+/-5%)	1500
120/277	50/60Hz	180mA/76mA	<20%	>0.9	21W(+/-5%)	1100
120/277	50/60Hz	133mA/57mA	<20%	>0.9	16W(+/-5%)	800



**DESCRIPTION** - 4" LED dedicated Architectural New Construction Downlight with integral LED heat management casting and driver (installed on junction box). Available in 800 lumens, 1100 lumens & 1500 lumens. Lighting is smooth and comfortable while using 50% less energy than the common 26W & 32W CFL downlight. Plus the eco-friendly MAXILUME LED system features 70% lumen maintenance at 50,000hrs of life, with California Title-24 (compliances pending).

**FEATURES** - Greater light output than a 26W & 32W CFL. MAXILUME LED luminaires are ideally suited for use in hospitality, health care, commercial, academic institutions, retail and other architectural applications.



**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. Proprietary dual level upper and lower reflector design allows for optimum glare control. Elite engineered superior quality, light engine; producing 800 lumens, 1100 lumens & 1500 lumens.

**PERFORMANCE** - Operating system delivers 800, 1100 & 1500 lumens. All MAXILUME LED luminaires are rated at 85+, 90+ and 98+ CRI, and are binned to within 3 MacAdam ellipses. Elite's highly selective LED chips produce zero ultraviolet and virtually no infrared light. All LED luminaires are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

**THERMAL MANAGEMENT SYSTEM** - Using a proprietary coolLED 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 50,000hrs of operation.

**DIMMABLE** - The MAXILUME LED system is shipped standard with a 0-10V driver which can be dimmed down to 1% of initial light output with a 0-10V dimmer when ordered with the following options (DIM10-120, DIM10-277). Fixtures can also 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), or EldoLed 0-10V 1% Dimming, consult factory for other EldoLed driver and other driver options. Triac & Electronic Low Voltage dimming driver also available when ordered with the following options (DIMTR-120). All fixtures with 3000L and below are dimmable down to 1% and the fixtures with 4000L and above can be dimmed down to 10%.

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

**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 1/2" knockouts, one 3/4" knockout and four Romex knockouts with true pryout slots and strain clamps. Designed for straight through conduit runs.

**MOUNTING BRACKET** - Constructed from 16 gauge steel and is supplied with C-channels that are adjustable up to 28". Mounting brackets maybe adjusted up to 2-3/4" vertically from inside the housing.

**OUR WORD** - The MAXILUME LED lighting system carries a five-year carefree warranty for parts and components. (Labor not included.)

**DIMMING INFORMATION**  
**DIM10** (0-10V 1% Dimming)  
**LUTH** (Lutron® Hi-Lume A-Series 3-Wire or Eco System 1% Dimming up to 4000 lumens only)  
**ELDO10** (EldoLed 0-10V 1% Dimming up to 3000 lumens only, consult factory for the EldoLed driver options)  
**DIMTR** (Triac & Electronic Low Voltage Dimming)

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



Example: HV4-LED-1100L-DIM10-120-MD-30K-LED-4101-CL-WH

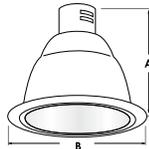
TYPE	800L SERIES	1100L SERIES	1500L SERIES	VOLTAGE	OPTICS	CCT	CRI	EMERGENCY	TRIM TYPE	REFLECTOR/RING FINISH	DISC	
HV4-LED	<input type="checkbox"/> 800L-DIMTR* <input type="checkbox"/> 800L-LUTH <input type="checkbox"/> 800L-DIM10 <input type="checkbox"/> 800L-ELDO10	<input type="checkbox"/> 1100L-DIMTR* <input type="checkbox"/> 1100L-LUTH <input type="checkbox"/> 1100L-DIM10 <input type="checkbox"/> 1100L-ELDO10	<input type="checkbox"/> 1500L-LUTH <input type="checkbox"/> 1500L-DIM10 <input type="checkbox"/> 1500L-ELDO10	<input type="checkbox"/> 120 <input type="checkbox"/> 277 <input type="checkbox"/> 347	<input type="checkbox"/> MD (Medium)	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K (85+ CRI only)	<input type="checkbox"/> 85+ <input type="checkbox"/> 90+ <input type="checkbox"/> 98+**	<input type="checkbox"/> EMG-LED Typical lumen output of the fixture is up to 1000L in emergency mode. Contact the factory for details.	<input type="checkbox"/> LED-4101 <input type="checkbox"/> LED-4102 <input type="checkbox"/> LED-4107 <input type="checkbox"/> LED-4109 <input type="checkbox"/> LED-4110 <input type="checkbox"/> LED-4128 <input type="checkbox"/> LED-4123	<input type="checkbox"/> LED-4112 <input type="checkbox"/> LED-4113 <input type="checkbox"/> LED-4114 <input type="checkbox"/> LED-4115 <input type="checkbox"/> LED-4121 <input type="checkbox"/> LED-4122 <input type="checkbox"/> LED-4125	<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	<input type="checkbox"/> BLUE <input type="checkbox"/> RED <input type="checkbox"/> GREEN <input type="checkbox"/> FROST <input type="checkbox"/> AL <input type="checkbox"/> BZ <input type="checkbox"/> WH

\* DIMTR and LUT2W options only available in 120 Volt. \*\* 98+ CRI is available in 27K, 30K and 40K only

# 4" LED OPTICS



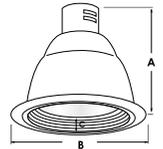
**EXAMPLE:** LED-4101-CL-WH  
**LED-4101** - REFLECTOR  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"



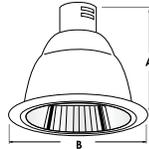
**EXAMPLE:** LED-4102-CL-WH  
**LED-4102** - BAFFLE W/ REFLECTOR  
**BAFFLE/ RING FINISH:**  
 W-CL-WH P-CL-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



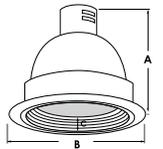
**EXAMPLE:** LED-4107-CL-WH  
**LED-4107** - WALL WASH REFLECTOR  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"



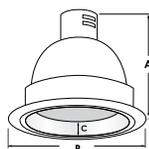
**EXAMPLE:** LED-4112-CL-WH  
**LED-4112** - BAFFLE W/ FROSTED GLASS LENS  
**BAFFLE/ RING FINISH:**  
 W-WH P-WH



A= 6-7/8"  
 B= 5-1/2"  
 C= 1"



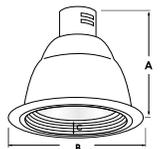
**EXAMPLE:** LED-4114-CL-WH  
**LED-6114** - REFLECTOR W/ FROSTED GLASS LENS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



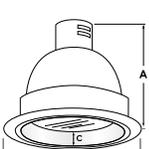
**EXAMPLE:** LED-4113-CL-WH  
**LED-6113** - BAFFLE W/ TEMPERED CLEAR GLASS  
**BAFFLE/ RING FINISH:**  
 W-WH P-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



**EXAMPLE:** LED-4115-CL-WH  
**LED-4115** - REFLECTOR W/ TEMPERED CLEAR GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-7/8"  
 B= 5-1/2"  
 C= 1"



**EXAMPLE:** LED-4121-CL-WH  
**LED-4121** - STARDUST DECO RING GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



**EXAMPLE:** LED-4122-CL-WH  
**LED-4122** - EURO DECO RING GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



**EXAMPLE:** LED-4123-CL-WH  
**LED-4123** - PRISM DECO RING GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



**EXAMPLE:** LED-4109-CL-WH  
**LED-4109** - DECO GLASS REFLECTOR  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



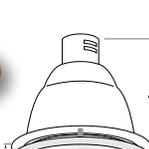
**EXAMPLE:** LED-4110-CL-WH  
**LED-4110** - DOUBLE RING GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST



A= 6-1/2"  
 B= 5-1/2"  
 C= 1-7/8"



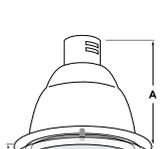
**EXAMPLE:** LED-4128-CL-WH-AL  
**LED-4128** - DECO GLASS REFLECTOR WITH ALUMINIUM DISC  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**DISC FINISH:**  
 AL, WH, BZ



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"



**EXAMPLE:** LED-4125-CL-WH  
**LED-4125** - CENTRAL ETCHED FLOAT GLASS  
**REFLECTOR/RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 6-1/2"  
 B= 5-1/2"  
 C= 1"

# 4" LED DOWNLIGHT PHOTOMETRY

## HV4-LED-1500L-DIM10-120-MD-40K-LED-4101-SHZ-SHZ

INPUT WATTS: 35.3

LUMENS: 1394

CRI: 85+

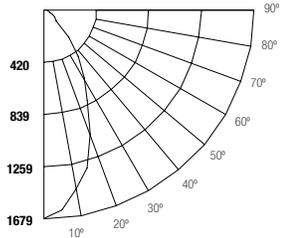
EFFICACY: 39.5

CCT: 4000K

TEST NO.: EL-0913103

SPACING CRITERIA: 0.94

### Candle Power Distribution (Candelas)



Cone of Light		
4.0	100.1	3.6'
8.0	25.0	7.1'
12.0	11.1	10.7'
16.0	6.3	14.2'
20.0	4.0	17.8'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	487.25	35.20	34.90
0-30	857.68	62.00	61.50
0-40	1154.09	83.40	82.80
0-60	1361.2	98.40	97.60
0-80	1391.43	100.60	99.80
0-90	1394.25	100.80	100.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average		
	0°	45°	90°
45	51729	51599	25230
55	20689	19082	9766
65	12311	8300	4585
75	5606	4396	2482
85	7011	5165	1443

### Lumens Per Zone

Zone	Lumens
0-10	143.06
10-20	344.19
20-30	370.42
30-40	296.41
40-50	153.25
50-60	53.87
60-70	22.38
70-80	7.85
80-90	2.82

### Candela Tabulation

Zone	Lumens	0	10	15	25	35	45	55	65	75	85	90
0	1601											
5	1678											
15	1462											
25	1057											
35	631											
45	290											
55	94											
65	41											
75	11											
85	4											
90	1											

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101	101	101	101		
1	114	111	108	106	111	109	106	104	104	104	102	101	101	99	98	97	96	95	93	93	93	93		
2	107	102	98	94	105	100	96	93	93	97	94	91	94	91	89	91	89	87	85	85	85	85		
3	101	94	89	84	99	93	88	84	84	90	86	82	88	84	81	85	82	80	78	78	78	78		
4	96	87	81	77	94	86	81	76	76	84	79	75	82	78	74	80	77	74	72	72	72	72		
5	90	81	75	70	89	80	74	70	70	78	73	69	77	72	69	75	71	68	66	66	66	66		
6	86	76	69	65	84	75	69	64	64	73	68	64	72	67	63	71	66	63	61	61	61	61		
7	81	71	64	60	80	70	64	60	60	69	63	59	68	63	59	66	62	59	57	57	57	57		
8	77	67	60	56	75	66	60	56	56	65	59	55	64	59	55	63	58	55	53	53	53	53		
9	73	63	56	52	72	62	56	52	52	61	56	52	60	55	51	59	55	51	50	50	50	50		
10	69	59	53	49	68	59	53	49	49	58	52	48	57	52	48	56	51	48	47	47	47	47		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

## HV4-LED-1100L-DIM10-120-MD-40K-LED-4101-SHZ-SHZ

INPUT WATTS: 22

LUMENS: 988

CRI: 85+

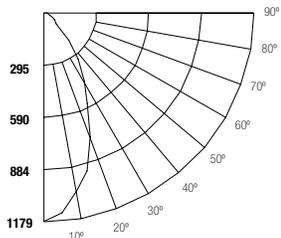
EFFICACY: 44.9

CCT: 4000K

TEST NO.: EL-0913102

SPACING CRITERIA: 0.92

### Candle Power Distribution (Candelas)



Cone of Light		
4.0	71.2	3.6'
8.0	17.8	7.2'
12.0	7.9	10.9'
16.0	4.4	14.5'
20.0	2.8	18.1'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	345.56	35.30	35.00
0-30	607.50	62.00	61.50
0-40	816.13	83.30	82.60
0-60	963.40	98.30	97.60
0-80	985.43	100.50	99.80
0-90	987.54	100.80	100.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average		
	0°	45°	90°
45	35728	36627	18608
55	14812	13867	7293
65	8904	6108	3430
75	4212	3279	1924
85	5467	3953	1197

### Lumens Per Zone

Zone	Lumens
0-10	101.36
10-20	244.21
20-30	261.93
30-40	208.63
40-50	108.62
50-60	38.65
60-70	16.23
70-80	5.80
80-90	2.11

### Candela Tabulation

Zone	Lumens	0	10	15	25	35	45	55	65	75	85	90
0	1138											
5	1175											
15	1014											
25	725											
35	429											
45	200											
55	67											
65	29											
75	8											
85	3											
90	1											

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101	101	101	101		
1	114	111	108	105	111	108	106	104	104	104	102	101	101	99	98	97	96	95	93	93	93	93		
2	107	102	98	94	105	100	96	93	93	97	94	91	94	91	89	91	89	87	85	85	85	85		
3	101	94	89	84	99	93	88	84	84	90	86	82	88	84	81	85	82	80	78	78	78	78		
4	96	87	81	77	94	86	81	76	76	84	79	75	82	78	74	80	76	74	72	72	72	72		
5	90	81	75	70	89	80	74	70	70	78	73	69	77	72	69	75	71	68	66	66	66	66		
6	85	76	69	65	84	75	69	64	64	73	68	64	72	67	63	71	66	63	61	61	61	61		
7	81	71	64	60	80	70	64	60	60	69	63	59	68	63	59	66	62	59	57	57	57	57		
8	77	66	60	56	75	66	60	55	55	65	59	55	64	59	55	63	58	55	53	53	53	53		
9	73	63	56	52	72	62	56	52	52	61	56	52	60	55	51	59	55	51	50	50	50	50		
10	69	59	53	49	68	59	53	49	49	58	52	48	57	52	48	56	51	48	47	47	47	47		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

## HV4-LED-800L-DIM10-120-MD-85-41K-LED-4101-SHZ-SHZ

INPUT WATTS: 18.5

LUMENS: 909

CRI: 85+

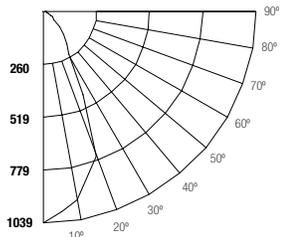
EFFICACY: 49.2

CCT: 4100K

TEST NO.: EL-0913101

SPACING CRITERIA: 0.84

### Candle Power Distribution (Candelas)



Cone of Light		
4.0	69.4	3.7'
8.0	16.2	6.9'
12.0	7.2	11.1'
16.0	4.1	14.8'
20.0	2.6	18.5'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	321.38	35.60	35.30
0-30	543.45	60.20	59.80
0-40	701.85	77.80	77.20
0-60	858.55	95.20	94.40
0-80	904.54	100.30	99.50
0-90	909.25	100.80	100.00

### Luminance (Average candela/M<sup>2</sup>)

Angle in Degrees	Average		
	0°	45°	90°
45	26248	25233	19751
55	14385	14645	12419
65	10492	10043	8472
75	7526	6440	5401
85	9109	7135	2865

### Lumens Per Zone

Zone	Lumens
0-10	93.00
10-20	228.38
20-30	222.07
30-40	158.40
40-50	100.85
50-60	55.84
60-70	31.70
70-80	14.30
80-90	4.70

### Candela Tabulation

Zone	Lumens	0	10	15	25	35	45	55	65	75	85	90
0	1038											
5	1015											
15	850											
25	552											
35	281											
45	147											
55	65											
65	35											
75	15											
85	6											
90	1											

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%																		