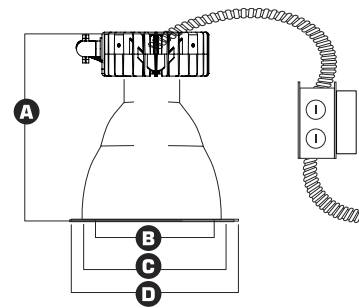


# HVJ6-LED 6" ARCHITECTURAL LED RETROFIT DOWNLIGHT



- A** Height = 8-1/2"
- B** Trim Aperture = 6-1/8"
- C** Cut-out = 6-3/4"
- D** Trim Outside Dia. = 7-3/8"

INPUT VOLT.	INPUT FREQ.	INPUT CUR.	INPUT POWER	THD	POWER FACTOR	LUMENS
120/277	50/60Hz	283mA/123mA	34W(+/-5%)	<20%	>0.9	1500
120/277	50/60Hz	175mA/76mA	21W(+/-5%)	<20%	>0.9	1100
120/277	50/60Hz	133mA/57mA	16W(+/-5%)	<20%	>0.9	800

**DESCRIPTION** - 6" LED dedicated Architectural Retrofit Downlight with integral LED heat management casting and driver. Available in 800 lumens (16W), 1100 lumens (21W) & 1500 lumens (34W). Lighting is smooth and comfortable while using 25% less energy than the common 26W & 32W 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). Designed to install into an existing downlights mounting frame and convert them into energy efficient LED downlights to save anywhere from 35% up to 75% on energy cost. Fits all downlights with 6-3/4" aperture. Custom size and aperture, LED retrofit and reflectors are available, please consult factory for further details.

**FEATURES** - Greater light output than a 26W & 32W CFL while consuming less than 16W to 34W of power. Maxilume LED luminaires are ideally suited for use in hospitality, health care, commercial, 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 (16W) , 1100 lumens (21W) & 1500 lumens (34W).

**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.

**PERFORMANCE** - Operating system delivers 800 lumens (16W), 1100 lumens (21W) & 1500 lumens (34W) with a 4100K color temperature. All MAXILUME LED luminaires are rated at 85+ CRI. All LED luminaires are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

**MOUNTING** - Our retrofit is designed to install into an existing downlights mounting frame and convert them into energy efficient LED downlights. Flex is designed to attach into existing junction box.

**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 50,000 hours of operation.

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

**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.

**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**

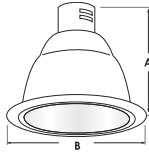
DIMTR (Triac & Electronic Low Voltage Dimming)  
DIM10 (0-10V Dimming)  
LUTH (Lutron® Hi-lume® Dimming)

Example: HVJ6-LED-21W-DIM10-120-FL-30K-LED-6101-CL-WH

TYPE	800 LUMENS	1100 LUMENS	1500 LUMENS	OPTICS	COLOR	EMERGENCY	TRIM TYPE	REFLECTOR/ RING FINISH	DISC	
HVJ6-LED	<input type="checkbox"/> 16W-DIMTR-120 <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"/> 21W-LUTH-120 <input type="checkbox"/> 21W-LUTH-277 <input type="checkbox"/> 21W-DIM10-120 <input type="checkbox"/> 21W-DIM10-277	<input type="checkbox"/> 34W-LUTH-120 <input type="checkbox"/> 34W-LUTH-277 <input type="checkbox"/> 34W-DIM10-120 <input type="checkbox"/> 34W-DIM10-277	<input type="checkbox"/> FL	<input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 41K	<input type="checkbox"/> EMG-LED	<input type="checkbox"/> LED-6101 <input type="checkbox"/> LED-6102 <input type="checkbox"/> LED-6107 <input type="checkbox"/> LED-6109 <input type="checkbox"/> LED-6110 <input type="checkbox"/> LED-6128 <input type="checkbox"/> LED-6123	<input type="checkbox"/> LED-6112 <input type="checkbox"/> LED-6113 <input type="checkbox"/> LED-6114 <input type="checkbox"/> LED-6115 <input type="checkbox"/> LED-6121 <input type="checkbox"/> LED-6122 <input type="checkbox"/> LED-6125	<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



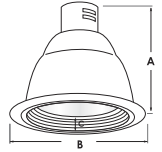
**EXAMPLE:** LED-6101-CL-WH  
**LED-6101** - REFLECTOR  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/8"  
 B = 7-3/8"



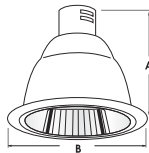
**EXAMPLE:** LED-6102-CL-WH  
**LED-6102** - BAFFLE W/ REFLECTOR  
**BAFFLE/ RING FINISH:**  
 W-CL-WH P-CL-WH



A = 7-1/8"  
 B = 7-3/8"  
 C = 1"



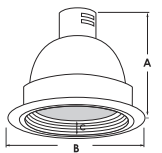
**EXAMPLE:** LED-6107-CL-WH  
**LED-6107** - WALL WASH REFLECTOR  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/8"  
 B = 7-3/8"



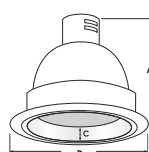
**EXAMPLE:** LED-6112-CL-WH  
**LED-6112** - BAFFLE W/ FROSTED GLASS LENS  
**REFLECTOR/ RING FINISH:**  
 W-WH P-WH



A = 7-1/2"  
 B = 7-3/8"  
 C = 1"



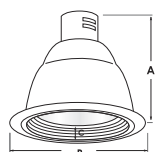
**EXAMPLE:** LED-6114-CL-WH  
**LED-6114** - REFLECTOR W/ FROSTED GLASS LENS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/2"  
 B = 7-3/8"  
 C = 1"



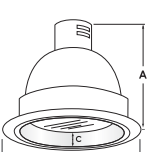
**EXAMPLE:** LED-6113-CL-WH  
**LED-6113** - BAFFLE W/ TEMPERED CLEAR GLASS  
**BAFFLE/ RING FINISH:**  
 W-WH P-WH



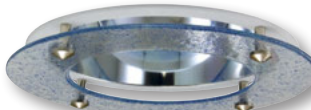
A = 7-1/2"  
 B = 7-3/8"  
 C = 1"



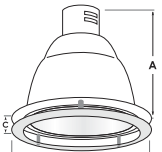
**EXAMPLE:** LED-6115-CL-WH  
**LED-6115** - REFLECTOR W/ TEMPERED CLEAR GLASS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/2"  
 B = 7-3/8"  
 C = 1"



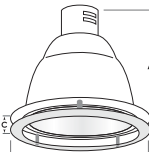
**EXAMPLE:** LED-6121-CL-WH  
**LED-6121** - STARDUST DECO RING GLASS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



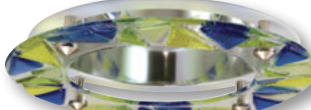
A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/4"



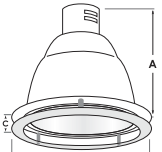
**EXAMPLE:** LED-6122-CL-WH  
**LED-6122** - EURO DECO RING GLASS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/4"



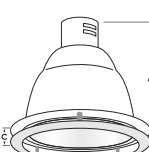
**EXAMPLE:** LED-6123-CL-WH  
**LED-6123** - PRISM DECO RING GLASS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/4"



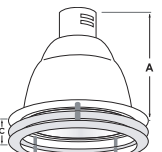
**EXAMPLE:** LED-6109-CL-WH  
**LED-6109** - DECO GLASS REFLECTOR  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**GLASS FINISH:**  
 BLUE, RED, GREEN, FROST



A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/4"



**EXAMPLE:** LED-6110-CL-WH  
**LED-6110** - 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

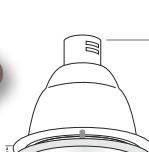


A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/2"



**ALUMINIUM DISC**

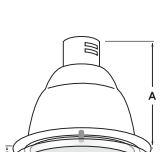
**EXAMPLE:** LED-6128-CL-WH-AL  
**LED-6128** - DECO GLASS REFLECTOR WITH ALUMINIUM DISC  
**REFLECTOR FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH  
**DISC FINISH:**  
 AL, WH, BZ



A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/4"



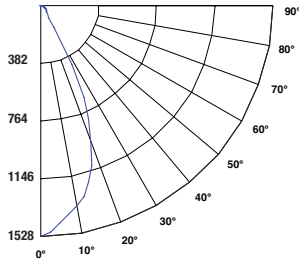
**EXAMPLE:** LED-6125-CL-WH  
**LED-6125** - CENTRAL ETCHED FLOAT GLASS  
**REFLECTOR/ RING FINISH:**  
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A = 7-1/8"  
 B = 7-3/8"  
 C = 1-1/4"

**HV6-LED-16W-MVOLT-DIM-FL-41K-LED-6101-SHZ / HVJ(R)6-LED-16W-MVOLT-DIM-FL-41K-LED-6101-SHZ** TEST NO.: **ELT-HV6-LED-00121**  
**INPUT WATTS: 16 LUMENS: 875 CRI: 85+ EFFICACY: 54 LPW CCT: 4100K SPACING CRITERIA: 0.76**

**Candle Power Distribution Curve (Candela)**



**Candela Distribution**

Beam Angle (°)	Candela
0	1528
5	1444
15	1213
25	672
35	70
45	46
55	27
65	13
75	5
85	0
90	0

**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-30°	743.7	85	85
0-40°	795.6	90	90
0-60°	855.3	97	97
0-90°	874.9	100	100

**Lumens Per Zone**

Zone	Lumens
0-10	134.7
10-20	332.1
20-30	276.8
30-40	51.9
40-50	35.5
50-60	24.2
60-70	13.2
70-80	5.6
80-90	.8

**Luminance (Average Candela/M²)**

Angle In Degrees	Average 0°	Average 55°	Average 90°
45°	3555	3555	3555
55°	2570	2570	2570
65°	1715	1715	1715
75°	1086	1086	1086
85°	283	283	283

**Cone of Light**

Distance to Plane	Initial Footcandles at Nadir	Beam Diameter
4'	95.48	3.5'
6'	42.44	5.2'
8'	23.87	6.9'
10'	15.28	8.6'
12'	10.61	10.4'

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

**Coefficients of Utilization - Zonal Cavity Method**

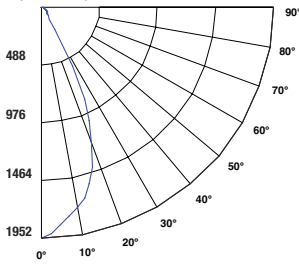
Effective Floor Cavity Reflectance 0.20

RC	RW	80%			70%			50%			30%			10%			0%		
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	
1	114	111	109	107	111	109	107	94	105	103	102	101	100	99	98	97	96	94	
2	109	104	100	97	106	102	99	89	99	96	94	96	94	92	93	91	90	88	
3	104	98	93	89	102	96	92	84	94	90	87	91	88	86	89	87	84	83	
4	99	92	87	83	97	91	86	79	89	85	81	87	83	81	85	82	80	78	
5	95	87	82	78	93	86	81	75	84	80	77	83	79	76	81	78	75	74	
6	91	82	77	73	89	82	77	71	80	76	72	79	75	72	78	74	71	70	
7	87	78	73	69	86	78	73	68	77	72	69	75	71	68	74	71	68	67	
8	83	75	69	66	82	74	69	64	73	68	65	72	68	65	71	67	65	63	
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60	
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58	

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**HV6-LED-21W-MVOLT-DIM-FL-41K-LED-6101-SHZ / HVJ(R)6-LED-21W-MVOLT-DIM-FL-41K-LED-6101-SHZ** TEST NO.: **ELT-HV6-LED-00122**  
**INPUT WATTS: 21 LUMENS: 1100 CRI: 85+ EFFICACY: 52 LPW CCT: 4100K SPACING CRITERIA: 0.76**

**Candle Power Distribution Curve (Candela)**



**Candela Distribution**

Beam Angle (°)	Candela
0	1952
5	1845
15	1550
25	858
35	89
45	59
55	34
65	17
75	7
85	1
90	0

**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-30°	950.3	85	85
0-40°	1016.6	90	90
0-60°	1092.9	97	97
0-90°	1117.9	100	100

**Lumens Per Zone**

Zone	Lumens
0-10	172.2
10-20	424.4
20-30	353.7
30-40	66.3
40-50	45.4
50-60	30.6
60-70	16.8
70-80	7.1
80-90	1

**Luminance (Average Candela/M2)**

Angle In Degrees	Average 0°	Average 55°	Average 90°
45°	4543	4543	4543
55°	3283	3283	3283
65°	2191	2191	2191
75°	1387	1387	1387
85°	361	361	361

**Cone of Light**

Distance to Plane	Initial Footcandles at Nadir	Beam Diameter
4'	122	3.5'
6'	54.22	5.2'
8'	30.5	6.9'
10'	19.52	8.6'
12'	13.56	10.4'

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

**Coefficients of Utilization - Zonal Cavity Method**

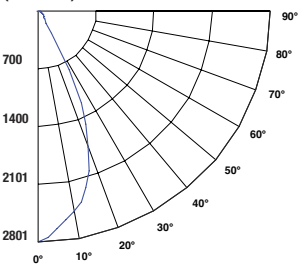
Effective Floor Cavity Reflectance 0.20

RC	RW	80%			70%			50%			30%			10%			0%		
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	
1	114	111	109	107	111	109	107	94	105	103	102	101	100	99	98	97	96	94	
2	109	104	100	97	106	102	99	89	99	96	94	96	94	92	93	91	90	88	
3	104	98	93	89	102	96	92	84	94	90	87	91	88	86	89	87	84	83	
4	99	92	87	83	97	91	86	79	89	85	81	87	83	81	85	82	80	78	
5	95	87	82	78	93	86	81	75	84	80	77	83	79	76	81	78	75	74	
6	91	82	77	73	89	82	77	71	80	76	72	79	75	72	78	74	71	70	
7	87	78	73	69	86	78	73	68	77	72	69	75	71	68	74	71	68	67	
8	83	75	69	66	82	74	69	64	73	68	65	72	68	65	71	67	65	63	
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60	
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**HV6-LED-34W-MVOLT-DIM-FL-41K-LED-6101-SHZ / HVJ(R)6-LED-34W-MVOLT-DIM-FL-41K-LED-6101-SHZ** TEST NO.: **ELT-HV6-LED-00123**  
**INPUT WATTS: 34 LUMENS: 1500 CRI: 85+ EFFICACY: 44 LPW CCT: 4100K SPACING CRITERIA: 0.76**

**Candle Power Distribution Curve (Candela)**



**Candela Distribution**

Beam Angle (°)	Candela
0	2801
5	2647
15	2224
25	1231
35	128
45	84
55	49
65	24
75	9
85	1
90	0

**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-30°	1363.4	85	85
0-40°	1458.6	90	90
0-60°	1568.1	97	97
0-90°	1603.9	100	100

**Lumens Per Zone**

Zone	Lumens
0-10	247.0
10-20	608.9
20-30	507.5
30-40	95.2
40-50	65.1
50-60	44.4
60-70	24.1
70-80	10.2
80-90	1.5

**Luminance (Average Candela/M2)**

Angle In Degrees	Average 0°	Average 55°	Average 90°
45°	6518	6518	6518
55°	4711	4711	4711
65°	3143	3143	3143
75°	1990	1990	1990
85°	518	518	518

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

RC	RW	80%			70%			50%			30%			10%			0%		
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	102	102	102	100	
1	114	111	109	107	111	109	107	94	105	103	102	101	100	99	98	97	96	94	
2	109	104	100	97	106	102	99	89	99	96	94	96	94	92	93	91	90	88	
3	104	98	93	89	102	96	92	84	94	90	87	91	88	86	89	87	84	83	
4	99	92	87	83	97	91	86	79	89	85	81	87	83	81	85	82	80	78	
5	95	87	82	78	93	86	81	75	84	80	77	83	79	76	81	78	75	74	
6	91	82	77	73	89	82	77	71	80	76	72	79	75	72	78	74	71	70	
7	87	78	73	69	86	78	73	68	77	72	69	75	71	68	74	71	68	67	
8	83	75	69	66	82	74	69	64	73	68	65	72	68	65	71	67	65	63	
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60	
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	

RC - Ceiling Cavity Reflectance RW - Wall Reflectance