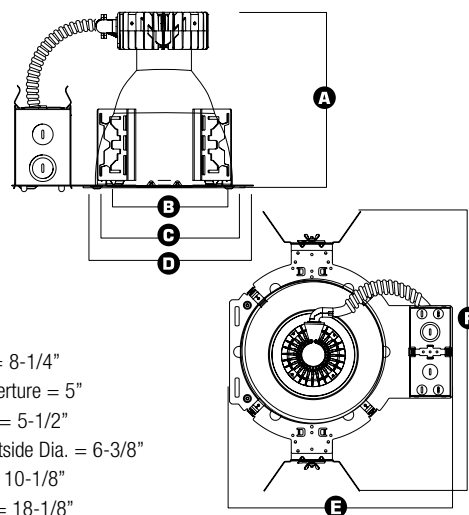


HV5-LED 5" ARCHITECTURAL LED DOWNLIGHT



**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 - 5" 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. 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.

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

LED Driver options:



Example: HV5-LED-1100L-DIM10-120-MD-30K-LED-5101-CL-WH

TYPE	800L SERIES	1100L SERIES	1500L SERIES	VOLTAGE	OPTICS	CCT	CRI	EMERGENCY	TRIM TYPE		REFLECTOR/RING FINISH	DISC
HV5-LED	☐ 800L-DIMTR* ☐ 800L-LUTH ☐ 800L-DIM10 ☐ 800L-ELDO10	☐ 1100L-DIMTR* ☐ 1100L-LUTH ☐ 1100L-DIM10 ☐ 1100L-ELDO10	☐ 1500L-LUTH ☐ 1500L-DIM10 ☐ 1500L-ELDO10	☐ 120 ☐ 277 ☐ 347	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+CRI only)	☐ 85+ ☐ 90+ ☐ 98+**	☐ EMG-LED Typical lumen output of the fixture is up to 1000L in emergency mode. Contact the factory for details.	☐ LED-5101 ☐ LED-5102 ☐ LED-5107 ☐ LED-5109 ☐ LED-5110 ☐ LED-5128 ☐ LED-5123	☐ LED-5112 ☐ LED-5113 ☐ LED-5114 ☐ LED-5115 ☐ LED-5121 ☐ LED-5122 ☐ LED-5125	☐ CL-WH ☐ CL-SCH ☐ SHZ-SHZ ☐ SHZ-WH ☐ W-WH ☐ MB-WH ☐ WT-WH	☐ BLUE ☐ RED ☐ GREEN ☐ FROST ☐ AL ☐ BZ ☐ WH

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

MAXILUME

WWW.MAXILUME.COM • TEL 1-877-375-5555 • FAX 1-877-375-3333

ISSUE 16F28 Rev. 0.4

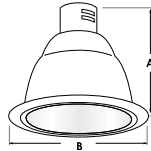
LED

5"

5 INCH ARCHITECTURAL LED DOWNLIGHT



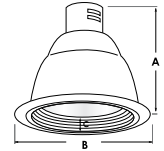
EXAMPLE: LED-5101-CL-WH
LED-5101 - REFLECTOR
REFLECTOR/RING FINISH:
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7"
 B= 6-3/8"



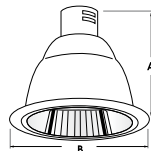
EXAMPLE: LED-5102-CL-WH
LED-5102 - BAFFLE W/ REFLECTOR
BAFFLE/ RING FINISH:
 W-CL-WH P-CL-WH



A= 7"
 B= 6-3/8"
 C= 1"



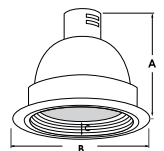
EXAMPLE: LED-5107-CL-WH
LED-5107 - WALL WASH REFLECTOR
REFLECTOR/RING FINISH:
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7"
 B= 6-3/8"



EXAMPLE: LED-5112-CL-WH
LED-5112 - BAFFLE W/ FROSTED GLASS LENS
BAFFLE/ RING FINISH:
 W-WH P-WH



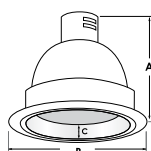
A= 7"
 B= 6-3/8"
 C= 1"

FOR
WET
 LOCATION



EXAMPLE: LED-5114-CL-WH
LED-5114 - REFLECTOR W/ FROSTED GLASS LENS
REFLECTOR/RING FINISH:
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

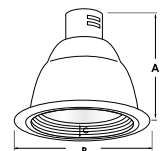
FOR
WET
 LOCATION



A= 7"
 B= 6-3/8"
 C= 1"



EXAMPLE: LED-5113-CL-WH
LED-5113 - BAFFLE W/ TEMPERED CLEAR GLASS
BAFFLE/ RING FINISH:
 W-WH P-WH



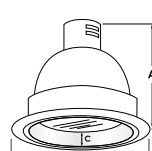
A= 7"
 B= 6-3/8"
 C= 1"

FOR
WET
 LOCATION



EXAMPLE: LED-5115-CL-WH
LED-5115 - REFLECTOR W/ TEMPERED CLEAR GLASS
REFLECTOR/RING FINISH:
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH

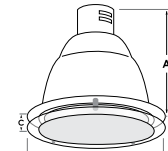
FOR
WET
 LOCATION



A= 7"
 B= 6-3/8"
 C= 1"



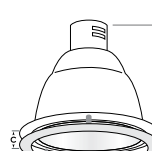
EXAMPLE: LED-5125-CL-WH
LED-5125 - CENTRAL ETCHED FLOAT GLASS
REFLECTOR/RING FINISH:
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH



A= 7"
 B= 6-3/8"
 C= 1"



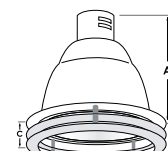
EXAMPLE: LED-5109-CL-WH
LED-5109 - DECO GLASS REFLECTOR
REFLECTOR/RING FINISH:
 CL-WH CL-SCH WT-WH SHZ-WH W-WH SHZ-SHZ MB-WH
GLASS FINISH:
 BLUE, RED, GREEN, FROST



A= 7"
 B= 6-3/8"
 C= 1"



EXAMPLE: LED-5110-CL-WH
LED-5110 - 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

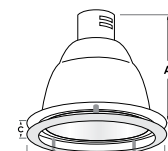


A= 7"
 B= 6-3/8"
 C= 1-7/8"



ALUMINIUM
 DISC

EXAMPLE: LED-5128-CL-WH-AL
LED-5128 - 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"
 B= 6-3/8"
 C= 1"

5" LED DOWNLIGHT PHOTOMETRY

HV5-LED-1500L-DIM10-120-MD-40K-LED-5101-SHZ-SHZ

INPUT WATTS: **35**

LUMENS: **1301**

CRI: **85+**

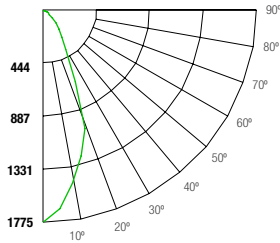
EFFICACY: **37**

CCT: **4000K**

TEST NO.: **EL-091398**

SPACING CRITERIA: **0.76**

Candle Power Distribution (Candelas)



Cone of Light		
4.0	110.9	3.4'
8.0	27.7	6.9'
12.0	12.3	10.3'
16.0	6.9	13.8'
20.0	4.4	17.2'
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	515.29	N.A.	39.60
0-30	849.25	N.A.	65.30
0-40	1038.39	N.A.	79.80
0-60	1235.38	N.A.	95.00
0-80	1294.55	N.A.	99.50
0-90	1301.07	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	21140	18340	17146
55	12179	11018	9107
65	8843	7185	6459
75	6294	4935	4390
85	7589	5617	2252

Lumens Per Zone

Zone	Lumens
0-10	154.88
10-20	360.41
20-30	333.96
30-40	189.14
40-50	126.22
50-60	70.77
60-70	40.06
70-80	19.11
80-90	6.52

Candela Tabulation

Q	Q
0	1774.96
5	1685.84
15	1320.59
25	771.74
35	339.14
45	183.52
55	85.76
65	45.88
75	20.00
85	8.12
90	2.18

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%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	113	111	111	106	106	106	102	102	102	100			
	1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
	2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			
	3	100	93	88	83	98	92	87	82	89	85	81	87	83	80	84	81	79	77			
	4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71			
	5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66			
	6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61			
	7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			
	8	77	67	60	56	75	66	60	56	65	60	56	64	59	55	63	58	55	54			
	9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51			
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV5-LED-1500L-DIM10-120-MD-40K-LED-5101-CL-WH

INPUT WATTS: **35**

LUMENS: **1692**

CRI: **85+**

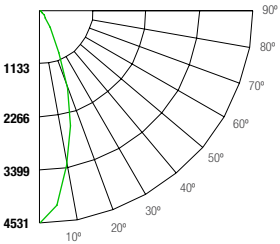
EFFICACY: **48**

CCT: **4000K**

TEST NO.: **EL-101339**

SPACING CRITERIA: **0.56**

Candle Power Distribution (Candelas)



Cone of Light		
4.0	283.2	2.3'
8.0	70.8	4.7'
12.0	31.5	7.0'
16.0	17.7	9.3'
20.0	11.3	11.7'
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	1034.06	N.A.	61.10
0-30	1471.03	N.A.	86.90
0-40	1613.13	N.A.	95.30
0-60	1683.92	N.A.	99.50
0-80	1690.11	N.A.	99.90
0-90	1691.94	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	12165	8054	6827
55	2620	2548	1004
65	1569	730	544
75	1013	774	384
85	3439	2869	280

Lumens Per Zone

Zone	Lumens
0-10	363.55
10-20	670.50
20-30	436.98
30-40	142.10
40-50	57.18
50-60	13.61
60-70	4.24
70-80	1.95
80-90	1.83

Candela Tabulation

Q	Q
0	4531.35
5	4065.97
15	2445.03
25	991.14
35	269.61
45	105.61
55	18.45
65	8.14
75	3.22
85	3.68
90	3.91

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%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
	2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			
	3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86			
	4	101	95	90	86	99	94	89	86	92	88	85	90	86	84	88	85	83	82			
	5	97	90	85	82	96	89	85	81	87	84	80	86	82	80	84	81	79	78			
	6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74			
	7	90	82	77	74	89	81	77	73	80	76	73	79	75	73	78	75	72	71			
	8	87	79	74	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68			
	9	83	75	71	67	83	75	70	67	74	70	67	73	69	67	73	69	66	65			
10	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV5-LED-1100L-DIM10-120-MD-85-40K-LED-5101-SHZ-SHZ

INPUT WATTS: **21.9**

LUMENS: **923**

CRI: **85+**

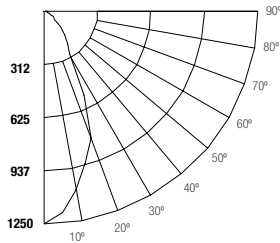
EFFICACY: **42**

CCT: **4000K**

TEST NO.: **EL-091399**

SPACING CRITERIA: **0.76**

Candle Power Distribution (Candelas)



Cone of Light		
4.0	78.1	3.5'
8.0	19.5	7.0'
12.0	8.7	10.4'
16.0	4.9	13.9'
20.0	3.1	17.4'
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	364.62	39.80	39.50
0-30	602.08	65.80	65.20
0-40	736.40	80.50	79.80
0-60	876.67	95.80	95.00
0-80	918.55	100.40	99.50
0-90	923.17	100.90	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	14994	12601	11751
55	8823	7592	6395
65	6335	4980	4500
75	4459	3433	3087
85	5626	4093	1598

Lumens Per Zone

Zone	Lumens
0-10	109.24
10-20	255.39
20-30	237.46
30-40	134.32
40-50	89.78
50-60	50.49
60-70	28.44
70-80	13.43
80-90	4.62

Candela Tabulation

Q	Q
0	1249
5	1191
15	936
25	546
35	237
45	130
55	62
65	32
75	14
85	6
90	1

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10
----	-----	--	--	--	-----	--	--	--	-----	--	--	--	-----	--	--	--	----

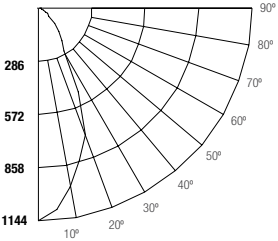
5" LED DOWNLIGHT PHOTOMETRY

HV5-LED-800L-DIM10-120-MD-85-40K-LED-5101-SHZ-SHZ

TEST NO.: EL-0913100

INPUT WATTS: 18.6 LUMENS: 848 CRI: 85+ EFFICACY: 45.6 CCT: 4000K SPACING CRITERIA: 0.76

Candle Power Distribution (Candelas)



Cone of Light		
4.0	71.5	3.5'
8.0	17.9	7.0'
12.0	7.9	10.5'
16.0	4.5	13.9'
20.0	2.9	17.4'
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	334.43	39.80	39.40
0-30	552.66	65.70	65.20
0-40	676.29	80.50	79.70
0-60	805.51	95.80	95.00
0-80	843.99	100.40	99.50
0-90	848.22	100.90	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	13970	12016	11080
55	8448	7265	6102
65	6052	4755	4211
75	4239	3264	2870
85	5308	3841	1477

Lumens Per Zone

Zone	Lumens
0-10	100.00
10-20	234.43
20-30	218.22
30-40	123.63
40-50	82.64
50-60	46.58
60-70	26.16
70-80	12.32
80-90	4.24

Candela Tabulation

θ	
0	1143
5	1078
15	837
25	488
35	216
45	121
55	59
65	31
75	13
85	5
90	1

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	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%	
0	1	120	120	120	120	120	117	117	117	117	117	112	112	112	112	107	107	107	107	103	103	103	101	92
1	2	114	110	108	108	105	111	108	106	103	103	104	102	100	100	97	97	97	97	97	96	94	94	86
2	3	107	102	97	93	93	105	100	96	92	92	97	93	90	90	93	91	88	89	91	88	86	84	78
3	4	101	94	89	84	84	99	92	87	83	83	90	85	82	82	87	84	80	85	82	79	78	73	66
4	5	96	87	81	76	76	94	86	80	76	76	84	79	75	75	82	77	74	80	80	76	73	72	66
5	6	90	81	75	70	70	89	80	74	70	70	78	73	69	69	77	72	68	75	71	68	66	61	55
6	7	86	76	70	65	65	84	75	69	65	65	74	68	64	64	72	67	64	71	67	63	62	58	53
7	8	81	71	65	60	60	80	71	65	60	60	69	64	60	60	68	63	59	67	63	59	58	54	49
8	9	77	67	61	56	56	76	67	61	56	56	65	60	56	56	64	59	56	63	59	56	54	50	45
9	10	74	63	57	53	53	73	63	57	53	53	62	57	53	53	61	56	53	60	56	52	51	47	42
10		70	60	54	50	50	69	60	54	50	50	59	53	50	50	58	53	50	57	53	49	48	44	39

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED

5"

5 INCH ARCHITECTURAL LED DOWNLIGHT PHOTOMETRY