

HVJ8PL

8" Architectural Vertical CFL Retrofit Downlight

Architectural

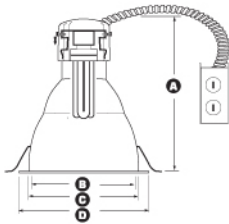
Catalog Number:

Project Name:

Type:

Note:

MAXILUME
ARCHITECTURAL LIGHTING



A. Min. Height = 8-3/4"

Max. Height = 9-1/8"

B. Trim Aperture = 8"

C. Cut-out = 8-3/8"

D. Trim Outside Diameter = 9-1/8"



DESCRIPTION

Designed to install into an existing downlights mounting frame and convert them into energy efficient CFL downlights. Fits all downlights with 8-1/2" aperture.

1. LAMP HOLDER - Die-cast aluminum lamp holder effectively provides heat dissipation and ventilation. Unitized optics guarantees proper trim to housing installation. Tool-less installation adjustability from either outside the housing or inside the housing.

2. JUNCTION BOX/BALLAST - UL listed for through-branch circuit wiring and has four 1/2" KO's, one 3/4" KO and four Romex knockouts with pry-out slots and strain clamps. Ballast and Junction Box are accessible from below, no tools required. Ballast supplied is manufactured by Philips Advance, Universal Technologies or Lutron Electronics.

OPTICS

3. REFLECTOR - Self-flanged .050" aluminum reflector with low iridescent finish. Reflector provides 45-degree lamp-to-reflector image cutoff.

4. GROOVE BAFFLE - Self-flanged one-piece aluminum with concentric rings.

5. LENS - Choice of either tempered clear, tempered prismatic or tempered frosted lens fastened with two torsion springs for easy re-lamping. /UL listed for wet or damp location.

LISTING

UL listed for through-branch circuit wiring and damp locations. Wet location only with lens trims.

LAMP BASE GUIDE (Sockets will accept all designated lamp bases listed.)

13W	18W	26W	32W	42W	57W	70W
G24q-1 GX24q-1	G24q-2 GX24q-2	G24q-3 GX24q-3 GX24q-4	GX24q-3 GX24q-4	GX24q-4	GX24q-5	GX24q-6

HVJ8PL - ITEM SELECTOR: (Please check the boxes below for the option desired)

WATTAGE	BALLAST	VOLTAGE	EMERGENCY OPTIONS	TRIM TYPE & DESCRIPTION	REFLECTOR	BAFFLE	GLASS
☐ 1X9 ☐ 1X13 ☐ 1X18 ☐ 1X26 ☐ 1X32 ☐ 1X42	☐ (E) Electronic ☐ (M) Magnetic ¹ ☐ (S) Energy Star ² DIMMING ☐ Mark 7 ³ ☐ Mark 10 ⁴ ☐ Lut-E (EC3D) ⁵	☐ MVOLT (120/277) ☐ 120 ☐ 277 ☐ 347	☐ EMG 750 (750 Lumens) ⁶ ☐ EMG 1300 (1300 Lumens) ⁶	☐ 8101 ☐ 8116 ☐ 8126 ☐ 8102 ☐ 8117 ☐ 8127 ☐ 8103 ☐ 8118 ☐ 8104 ☐ 8119 ☐ 8105 ☐ 8109 ☐ 8106 ☐ 8110 ☐ 8107 ☐ 8111 ☐ 8108 ☐ 8121 ☐ 8112 ☐ 8122 ☐ 8113 ☐ 8123 ☐ 8114 ☐ 8124 ☐ 8115 ☐ 8125	☐ CL ☐ SCH ^{**} ☐ SHZ ^{**} ☐ WT ☐ W ☐ MB	☐ WH ☐ P	☐ Blue ☐ Green ☐ Red ☐ Frost

¹ - (M) Magnetic = Available in 9W, 13W, 18W & 26W fixtures only • ² - (S) Energy Star = Available on selected fixtures only, please see list above • ³ - MARK 7 = Not available in 9W, 13W, 57W, 70W • ⁴ - MARK 10 = Not available in 9W, 13W, 57W, 70W, must specify voltage • ⁵ - LUT-E (EC3D) = Not available in 9W, 13W, 57W, 70W • ⁶ - EMG = Emergency battery pack w/ remote test switch • ⁷ - INTG = Emergency battery pack w/ integral (reflector) test switch • ⁸ - EMG-D = Emergency battery pack w/ remote test switch for damp location • ⁹ - INTG-D = Emergency battery pack w/ integral(reflector) test switch for damp location • ¹⁰ - ICE = Emergency battery pack w/ remote test switch operating between -18°C and 55°C • ¹¹ - FUSE = Single slow-blow fuse • ¹² - RIF = Radio interference filter

Specifications:

HVJ8PL

WATT	BALLAST	VOLTAGE	EMERGENCY	OPTIONS	TRIM TYPE	REFLECTOR	BAFFLE	RING	GLASS
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Sample of Catalog Number: HVJ8PL-1X26-E-MVOLT-EMG750-8101-CL-WH

REFLECTOR	BAFFLE	RING
CL Clear SHZ Satin Haze (Low Iridescent)	WH White P Black	WH Self-Flange White Standard on all trims SCH** Self-Flange Chrome ** Only available on XX01 CL
WT Wheat MB Black W White	GLASS Only available on XX09, XX10 and XX11 series. SHZ* Satin Haze * Provided w/ satin haze ring only	

*For custom baffle, reflector, trim ring, glass color and lens options, please consult factory.

MAXILUME
ARCHITECTURAL LIGHTING

A division of
Elite Lighting

Submittal form is available @ www.maxilume.com
Tel: 323-888-1973 • Fax: 323-888-1977

Specifications and Dimensions
subject to change without notice.

8" Vertical CFL Optics

Catalog Number:

Project Name:

Type:

Note:

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**8101-CL
Reflector**



**8102-WH-CL
Baffle with Reflector**



**8107-SHZ
Wall Wash Reflector**



**8108-CL
Crossblade Reflector**



**8103-CL
Reflector with Fresnel Glass Lens**



**8104-CL
Reflector with Prismatic Glass Lens**



**8105-P
Baffle with Fresnel Glass Lens**



**8106-WH
Baffle with Prismatic Glass Lens**



**8114-CL
Reflector with Frosted Glass Lens**



**8115-WT
Reflector with Tempered Clear Glass**



**8112-WH
Baffle with Frosted Glass Lens**



**8113-WH
Baffle with Tempered Clear Glass**



**8116-CL
Reflector with Prismatic Plastic Lens**



**8118-WT
Reflector with Tempered Clear Plastic**



**8117-WH
Baffle with Prismatic Plastic Lens**



**8119-WH
Baffle with Tempered Clear Plastic**



8" Vertical CFL Optics

Catalog Number:

Project Name:

Type:

Note:

MAXILUME
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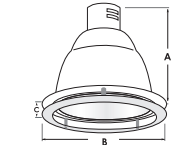
8109-CL Deco Glass Reflector



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ

GLASS FINISH:
BLUE, GREEN, RED, FROST



A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

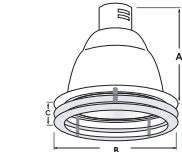
8110-CL Double Ring Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ

GLASS FINISH:
BLUE, GREEN, RED, FROST



A= 7-1/2" • B= 9-1/8" • C= 1-3/4"

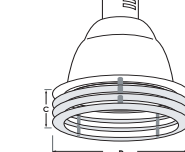
8111-CL Triple Ring Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

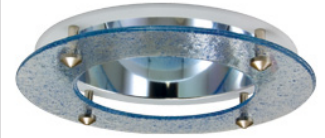
RING FINISH:
WH, SCH, SHZ

GLASS FINISH:
BLUE, GREEN, RED, FROST



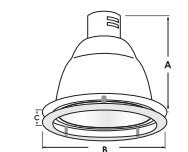
A= 7-1/2" • B= 9-1/8" • C= 2-1/4"

8121-CL Stardust Deco Ring Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



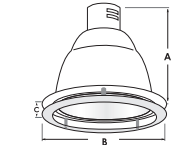
A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

8122-CL Euro Deco Ring Glass



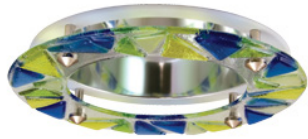
REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



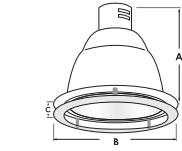
A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

8123-CL Prism Deco Ring Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



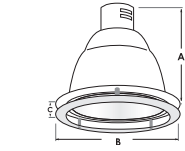
A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

8124-CL Geo Deco Ring Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



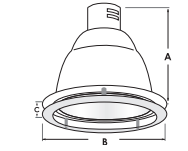
A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

8125-CL Central Etched Float Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



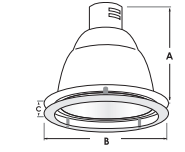
A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

8126-CL Diffusing Screen Wall Wash



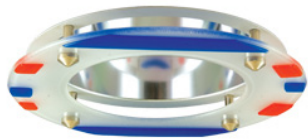
REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



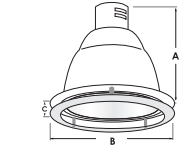
A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

8127-CL Geo Deco Ring Glass



REFLECTOR FINISH:
CL, WT, MB, SHZ, W

RING FINISH:
WH, SCH, SHZ



A= 7-1/2" • B= 9-1/8" • C= 1-1/4"

REFLECTOR	BAFFLE	RING
CL Clear	WH White	WH Self-Flange White
SHZ Satin Haze (Low Iridescent)	P Black	Standard on all trims
WT Wheat	GLASS	SCH** Self-Flange Chrome
MB Black	Only available on XX09, XX10 and XX11 series.	** Only available on XX01 CL
W White		SHZ* Satin Haze
		* Provided w/ satin haze ring only

*For custom baffle, reflector, trim ring, glass color and lens options, please consult factory.

PHOTOMETRIC DATA | CFL | 8" VERTICAL DOWNLIGHT

MAXILUME
ARCHITECTURAL LIGHTING

HV8PL-1X26-E-8101CL / HVR8PL-1X26-E-8101CL / HVJ8PL1X26-E-6101CL- / BHVR8PL-1X26-E-8101CL / CV8PL-1X26-E-8101CL

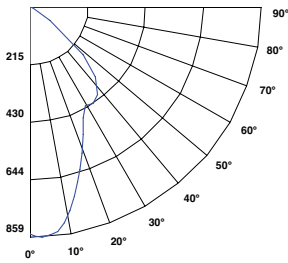
TEST NO.: LLI 0509-15K-P

LAMP: GE F26TBX/841/A/ECO

LUMENS: 1710

TOTAL LUMINAIRE EFFICIENCY: 64.7%

SPACING CRITERIA: 1.06

Candle Power Distribution (Candelas)

Beam Angle: 111°			
4'	53.0	11.5'	
6'	23.6	17.3'	
8'	13.3	23.1'	
10'	8.5	28.8'	
12'	5.9	34.6'	
Distance to Plane	Initial Nadir Footcandles	Beam Spread	

BEAM DIA. MEASURED AT 10% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	465.46	27.2	42.1
0-40°	681.38	39.8	61.6
0-60°	1049.43	61.4	94.8
0-90°	1106.9	64.7	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	1106.9	64.7	100

Total Luminaire Efficiency = 64.7%

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	13780	13780	13780
55°	4823	4823	4823
65°	744	744	744
75°	486	486	486
85°	721	721	721

Zonal Lumen Summary

Zone	Lumens
0-10	65.32
10-20	193.56
20-30	206.57
30-40	215.93
40-50	254.92
50-60	113.13
60-70	46.48
70-80	7.2
80-90	3.78

Candela Tabulation

0	0
0	848
1	853
3	859
5	855
7	846
9	815
11	774
13	727
15	677
17	636
19.5	579
22.5	513
25.5	457
29	423
33	430
37.5	410
42.5	355
47.5	265
55	88
65	10
75	4
85	2
90	0

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	70%	80%	70%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	65
1	72	70	68	66	71	69	67	65	66	64	63	63	62	61	61	60	58
2	67	63	60	57	66	62	59	56	60	57	55	58	56	54	56	54	51
3	63	57	53	50	61	56	52	49	54	51	48	53	50	48	51	49	46
4	58	52	47	44	57	51	47	43	50	46	43	48	45	42	47	44	41
5	54	47	42	39	53	47	42	39	45	41	38	44	41	38	43	40	37
6	51	43	38	35	49	43	38	35	42	37	34	41	37	34	40	36	33
7	47	40	35	31	46	39	35	31	38	34	31	37	34	31	37	33	30
8	44	37	32	29	43	36	32	28	35	31	28	35	31	28	34	31	27
9	42	34	29	26	41	34	29	26	33	29	26	32	29	26	32	28	25
10	39	32	27	24	38	31	27	24	31	27	24	30	26	24	30	26	23

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV8PL-1X32-E-8101CL / HVR8PL-1X32-E-8101CL / HVJ8PL1X32-E-8101CL- / BHVR8PL-1X32-E-8101CL / CV8PL-1X32-E-8101CL

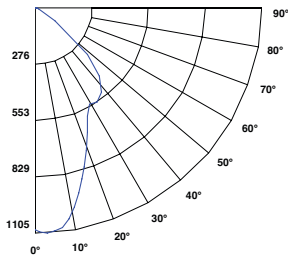
TEST NO.: LLI 0509-15K

LAMP: GE F32TBX/841/A/ECO

LUMENS: 2200

TOTAL LUMINAIRE EFFICIENCY: 64.7%

SPACING CRITERIA: 1.06

Candle Power Distribution (Candelas)

Beam Angle: 111°			
4'	68.2	11.5'	
6'	30.3	17.3'	
8'	17.1	23.0'	
10'	11	28.8'	
12'	7.6	34.6'	
Distance to Plane	Initial Nadir Footcandles	Beam Spread	

BEAM DIA. MEASURED AT 10% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	598.81	27.2	42
0-40°	876.46	39.8	61.5
0-60°	1349.96	61.4	94.8
0-90°	1424.11	64.7	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	1424.11	64.7	100

Total Luminaire Efficiency = 64.7%

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	17737	17737	17737
55°	6193	6193	6193
65°	967	967	967
75°	607	607	607
85°	1082	1082	1082

Zonal Lumen Summary

Zone	Lumens
0-10	84.04
10-20	249.02
20-30	265.76
30-40	277.65
40-50	328
50-60	145.5
60-70	59.76
70-80	9.26
80-90	5.14

Candela Tabulation

0	0
0	1091
1	1098
3	1105
5	1100
7	1088
9	1049
11	996
13	935
15	871
17	818
19.5	745
22.5	660
25.5	588
29	544
33	553
37.5	527
42.5	457
47.5	341
55	113
65	13
75	5
85	3
90	0

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	70%	80%	70%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	65
1	72	70	68	66	71	69	67	65	66	64	63	63	62	61	61	60	58
2	67	63	60	57	66	62	59	56	60	57	55	58	56	54	56	54	51
3	63	57	53	50	61	56	52	49	54	51	48	53	50	48	51	49	46
4	58	52	47	44	57	51	47	43	50	46	43	48	45	42	47	44	41
5	54	47	42	39	53	47	42	39	45	41	38	44	41	38	43	40	37
6	51	43	38	35	49	43	38	35	42	37	34	41	37	34	40	36	33
7	47	40	35	31	46	39	35	31	38	34	31	37	34	31	37	33	30
8	44	37	32	29	43	36	32	28	35	31	28	35	31	28	34	31	27
9	42	34	29	26	41	34	29	26	33	29	26	32	29	26	32	28	25
10	39	32	27	24	38	31	27	24	31	27	24	30	26	24	30	26	23

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV8PL-1X42-E-8101CL / HVR8PL-1X42-E-8101CL / HVJ8PL1X42-E-8101CL- / BHVR8PL-1X42-E-8101CL / CV8PL-1X26-E-8101CL

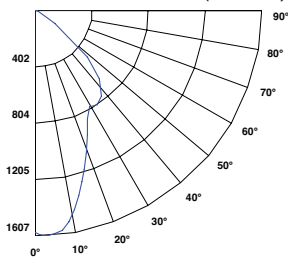
TEST NO.: LLI 0509-15K-P

LAMP: GE F42TBX/841/A/ECO

LUMENS: 3200

TOTAL LUMINAIRE EFFICIENCY: 64.7%

SPACING CRITERIA: 1.06

Candle Power Distribution (Candelas)

Beam Angle: 110°			
4'	99.2	11.5'	
6'	44.1	17.3'	
8'	24.8	23.0'	
10'	15.9	28.8'	
12'	11.0	34.5'	
Distance to Plane	Initial Nadir Footcandles	Beam Spread	

BEAM DIA. MEASURED AT 10% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	871.01	27.2	42.1
0-40°	1274.81	39.8	61.6
0-60°	1963.6	61.4	94.8
0-90°	2070.79	64.7	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	2070.79	64.7	100

Total Luminaire Efficiency = 64.7%

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	25805	25805	25805
55°	8987	8987	8987
65°	1413	1413	1413
75°	850	850	850
85°	1443	1443	1443

Zonal Lumen Summary

Zone	Lumens
0-10	122.25
10-20	362.26
20-30	386.51
30-40	403.8
40-50	477.27
50-60	211.52
60-70	86.79
70-80	13.38
80-90	7.03

Candela Tabulation

0	0
0	1587
1	1597
3	1607
5	1600
7	1583
9	1526
11	1449
13	1360
15	1267
17	1190
19.5	1084
22.5	960
25.5	855
29	791
33	804
37.5	767
42.5	665
47.5	496
55	164
65	19
75	7
85	4
90	0

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

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%				
ROOM CAVITY RATIO	0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65			
	1	68	72	66	66	71	69	67	65	66	64	63	62	61	61	60	58	58				
	2	67	63	60	59	66	62	59	56	60	57	55	58	56	54	56	53	51				
	3	63	57	53	50	61	56	52	49	54	51	48	53	50	48	51	49	47				
	4	58	52	47	44	57	51	47	43	50	46	43	48	45	42	47	44	42				
	5	54	47	42	39	53	47	42	39	45	41	38	44	41	38	43	40	37				
	6	51	43	38	35	49	43	38	35	42	37	34	41	37	34	40	36	34				
	7	40	35	31	27	37	31	25	22	32	28	24	31	27	24	30	27	24				
	8	44	37	32	29	45	36	32	28	35	31	28	35	31	28	34	31	28				
	9	42	34	29	26	41	34	29	26	33	29	26	32	29	26	32	28	26				
10	39	32	27	24	38	31	27	24	31	27	24	30	26	24	30	26	24					