

# HV6PL

## 6" Architectural Vertical CFL Downlight

Architectural

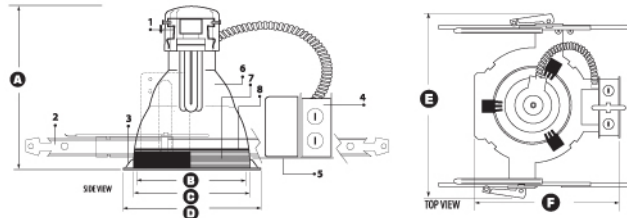
Catalog Number:

Project Name:

Type:

Note:

**MAXILUME**  
ARCHITECTURAL LIGHTING



### DESCRIPTION

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

**3. RETAINING SPRINGS** - Precision tooled springs secure trim to mounting frame, for effortless and tool-less installation.

**4. JUNCTION BOX/BALLAST** - UL and 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.

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

### OPTICS

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

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

**8. 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.

- A. Min. Height = 8-1/2"  
Max. Height = 9-1/8"
- B. Trim Aperture = 6-1/8"
- C. Cut-out = 6-7/8"
- D. Trim Outside Diameter = 7-3/8"
- E. Width = 16"
- F. Length = 12-1/2"



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	<b>G24q-3</b> <b>GX24q-3</b> GX24q-4	<b>GX24q-3</b> GX24q-4	GX24q-4	GX24q-5	GX24q-6

**HV6PL - ITEM SELECTOR:** (Please check the boxes below for the option desired)

WATTAGE	BALLAST	VOLTAGE	EMERGENCY OPTIONS	TRIM TYPE & DESCRIPTION	REFLECTOR	BAFFLE	GLASS
<input type="checkbox"/> 1X9	<input type="checkbox"/> (E) Electronic	<input type="checkbox"/> MVOLT (120/277)	<input type="checkbox"/> EMG 750 (750 Lumens) <sup>6</sup>	<input type="checkbox"/> 6101 <input type="checkbox"/> 6116 <input type="checkbox"/> 6126	<input type="checkbox"/> CL	<input type="checkbox"/> WH	<input type="checkbox"/> Blue
<input type="checkbox"/> 1X13	<input type="checkbox"/> (M) Magnetic <sup>1</sup>	<input type="checkbox"/> 120	<input type="checkbox"/> EMG 1300 (1300 Lumens) <sup>6</sup>	<input type="checkbox"/> 6102 <input type="checkbox"/> 6117 <input type="checkbox"/> 6127	<input type="checkbox"/> SCH **	<input type="checkbox"/> P	<input type="checkbox"/> Green
<input type="checkbox"/> 1X18	<input type="checkbox"/> (S) Energy Star <sup>2</sup>	<input type="checkbox"/> 277	<input type="checkbox"/> INTG 750 (750 Lumens) <sup>7</sup>	<input type="checkbox"/> 6103 <input type="checkbox"/> 6118	<input type="checkbox"/> SHZ **		<input type="checkbox"/> Red
<input type="checkbox"/> 1X26			<input type="checkbox"/> INTG 1300 (1300 Lumens) <sup>7</sup>	<input type="checkbox"/> 6104 <input type="checkbox"/> 6119	<input type="checkbox"/> WT		<input type="checkbox"/> Frost
<input type="checkbox"/> 1X32			<input type="checkbox"/> EMG-D-750 (750 Lumens) <sup>8</sup>	<input type="checkbox"/> 6105 <input type="checkbox"/> 6109	<input type="checkbox"/> W		
<input type="checkbox"/> 1X42			<input type="checkbox"/> INTG-D-750 (750 Lumens) <sup>9</sup>	<input type="checkbox"/> 6106 <input type="checkbox"/> 6110	<input type="checkbox"/> MB		
			<input type="checkbox"/> ICE-1300 (1300 Lumens) <sup>10</sup>	<input type="checkbox"/> 6107 <input type="checkbox"/> 6111			
	<b>DIMMING</b>		<b>OTHER OPTIONS</b>	<input type="checkbox"/> 6108 <input type="checkbox"/> 6121			
	<input type="checkbox"/> Mark 7 <sup>3</sup>		<input type="checkbox"/> FUSE <sup>11</sup>	<input type="checkbox"/> 6112 <input type="checkbox"/> 6122			
	<input type="checkbox"/> Mark 10 <sup>4</sup>		<input type="checkbox"/> RIF <sup>12</sup>	<input type="checkbox"/> 6113 <input type="checkbox"/> 6123			
	<input type="checkbox"/> Lut-E (EC3D) <sup>5</sup>			<input type="checkbox"/> 6114 <input type="checkbox"/> 6124			
				<input type="checkbox"/> 6115 <input type="checkbox"/> 6125			

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

### Specifications:

HV6PL

WATT	BALLAST	VOLTAGE	EMERGENCY	OPTIONS	TRIM TYPE	REFLECTOR	BAFFLE	RING	GLASS
------	---------	---------	-----------	---------	-----------	-----------	--------	------	-------

Sample of Catalog Number: HV6PL-1X26-E-MVOLT-EMG750-6101-CL-WH

REFLECTOR	BAFFLE	RING
CL Clear	WH White	WH Self-Flange White
SHZ Satin Haze (Low Iridescent)	P Black	Standard on all trims
WT Wheat		SCH** Self-Flange Chrome
MB Black		** Only available on XX01 CL
W White		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.



A division of  
**Elite Lighting**

Submittal form is available @ [www.maxilume.com](http://www.maxilume.com)  
Tel: 323-888-1973 • Fax: 323-888-1977

Specifications and Dimensions subject to change without notice.

# 6" Vertical CFL Optics

Catalog Number:

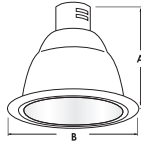
Project Name:

Type:

Note:

**MAXILUME**  
ARCHITECTURAL LIGHTING

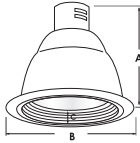
**6101-CL Reflector**



**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH, SCH, SHZ

A= 7-1/8" • B= 7-3/8"

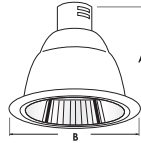
**6102-WH-CL Baffle with Reflector**



**BAFFLE FINISH:**  
WH, P  
**REFLECTOR FINISH:**  
CL

A= 7-1/8" • B= 7-3/8" • C= 1"

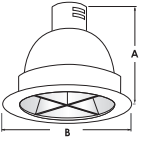
**6107-SHZ Wall Wash Reflector**



**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH, SCH, SHZ

A= 7-1/8" • B= 7-3/8"

**6108-CL Crossblade Reflector**



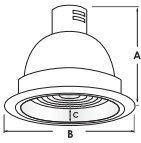
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8"

**6103-CL Reflector with Fresnel Glass Lens**



FOR WET LOCATION



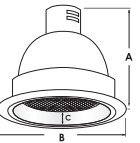
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6104-CL Reflector with Prismatic Glass Lens**



FOR WET LOCATION



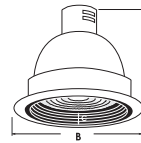
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6105-P Baffle with Fresnel Glass Lens**



FOR WET LOCATION



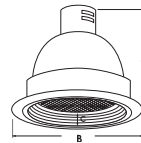
**BAFFLE FINISH:**  
WH, P  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6106-WH Baffle with Prismatic Glass Lens**



FOR WET LOCATION



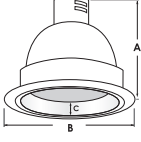
**BAFFLE FINISH:**  
WH, P  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6114-CL Reflector with Frosted Glass Lens**



FOR WET LOCATION



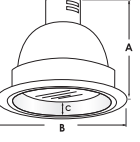
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH, SCH, SHZ

A= 7-1/2" • B= 7-3/8" • C= 1"

**6115-WT Reflector with Tempered Clear Glass**



FOR WET LOCATION



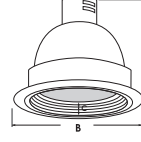
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH, SCH, SHZ

A= 7-1/2" • B= 7-3/8" • C= 1"

**6112-WH Baffle with Frosted Glass Lens**



FOR WET LOCATION



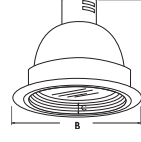
**BAFFLE FINISH:**  
WH, P  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6113-WH Baffle with Tempered Clear Glass**



FOR WET LOCATION



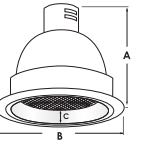
**BAFFLE FINISH:**  
WH, P  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6116-CL Reflector with Prismatic Plastic Lens**



FOR WET LOCATION



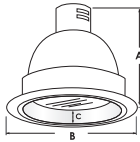
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6118-WT Reflector with Tempered Clear Plastic**



FOR WET LOCATION



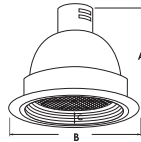
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6117-WH Baffle with Prismatic Plastic Lens**



FOR WET LOCATION



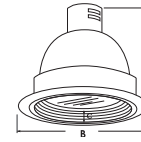
**BAFFLE FINISH:**  
WH, P  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

**6119-WH Baffle with Tempered Clear Plastic**



FOR WET LOCATION



**BAFFLE FINISH:**  
WH, P  
**RING FINISH:**  
WH

A= 7-1/2" • B= 7-3/8" • C= 1"

# 6" Vertical CFL Optics

Catalog Number:

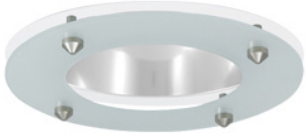
Project Name:

Type:

Note:

**MAXILUME**  
ARCHITECTURAL LIGHTING

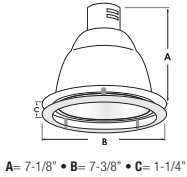
**6109-CL**  
Deco Glass Reflector



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

**RING FINISH:**  
WH, SCH, SHZ

**GLASS FINISH:**  
BLUE, GREEN, RED, FROST



A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

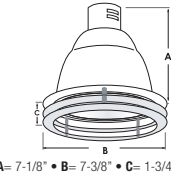
**6110-CL**  
Double Ring Glass



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

**RING FINISH:**  
WH, SCH, SHZ

**GLASS FINISH:**  
BLUE, GREEN, RED, FROST



A= 7-1/8" • B= 7-3/8" • C= 1-3/4"

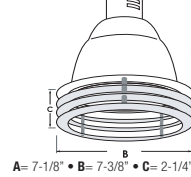
**6111-CL**  
Triple Ring Glass



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

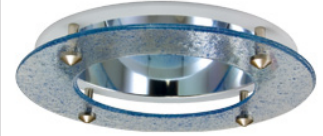
**RING FINISH:**  
WH, SCH, SHZ

**GLASS FINISH:**  
BLUE, GREEN, RED, FROST



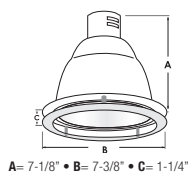
A= 7-1/8" • B= 7-3/8" • C= 2-1/4"

**6121-CL**  
Stardust Deco Ring Glass



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

**RING FINISH:**  
WH, SCH, SHZ



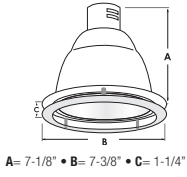
A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

**6122-CL**  
Euro Deco Ring Glass



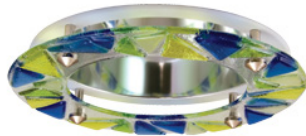
**REFLECTOR FINISH:**  
CL, WT, MB, SHZ, W

**RING FINISH:**  
WH, SCH, SHZ



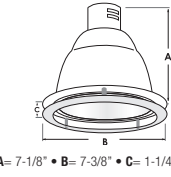
A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

**6123-CL**  
Prism Deco Ring Glass



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

**RING FINISH:**  
WH, SCH, SHZ



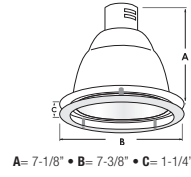
A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

**6124-CL**  
Geo Deco Ring Glass



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

**RING FINISH:**  
WH, SCH, SHZ



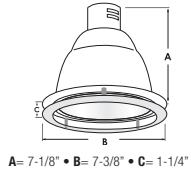
A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

**6125-CL**  
Central Etched Float Glass



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

**RING FINISH:**  
WH, SCH, SHZ



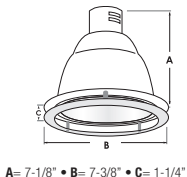
A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

**6126-CL**  
Diffusing Screen Wall Wash



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

**RING FINISH:**  
WH, SCH, SHZ



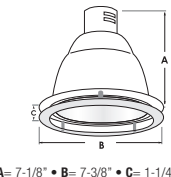
A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

**6127-CL**  
Geo Deco Ring Glass



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

**RING FINISH:**  
WH, SCH, SHZ



A= 7-1/8" • B= 7-3/8" • C= 1-1/4"

<b>REFLECTOR</b>	<b>BAFFLE</b>	<b>RING</b>
CL Clear	WH White	WH Self-Flange White
SHZ Satin Haze (Low Iridescent)	P Black	Standard on all trims
WT Wheat	<b>GLASS</b>	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

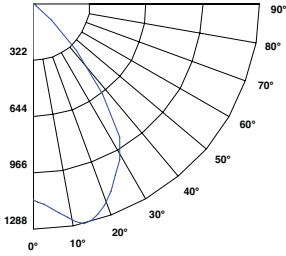
\*For custom baffle, reflector, trim ring, glass color and lens options, please consult factory.

# PHOTOMETRIC DATA | CFL | 6" VERTICAL DOWNLIGHT



HV6PL-1X13-E-6101CL / HVR6PL-1X13-E-6101CL / HVJ6PL1X13-E-6101CL- / BHVR6PL-1X13-E-6101CL/ CV6PL-1X13-E-6101CL TEST NO.: LLI 0509-15G-P13  
 LAMP: GE F13TBX/841/A/ECO LUMENS: 900 TOTAL LUMINAIRE EFFICIENCY: 60.6% SPACING CRITERIA: 1.14

### Candle Power Distribution (Candelas)



Beam Angle: 110°		
4'	22.0	11.3'
6'	9.8	17.0'
8'	5.5	22.6'
10'	3.5	28.3'
12'	2.4	34.0'

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°	243.04	27	44.6
0-40°	358.09	39.8	65.7
0-60°	524.6	58.3	96.2
0-90°	545.04	60.6	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	545.04	60.6	100

Total Luminaire Efficiency = 60.6%

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	10423	10423	10423
55°	3212	3212	3212
65°	249	249	249
75°	203	203	203
85°	604	604	604

### Zonal Lumen Summary

Zone	Lumens
0-10	28.42
10-20	95.37
20-30	119.25
30-40	115.06
40-50	117.15
50-60	49.35
60-70	17.55
70-80	1.54
80-90	1.35

### Candela Tabulation

Zone	Lumens	Candela
0	0	352
1	352	356
3	362	367
5	367	371
7	369	369
9	360	350
11	350	338
13	338	324
15	324	306
17	306	290
19.5	290	274
22.5	274	254
25.5	254	229
29	229	196
33	196	161
37.5	161	119
42.5	119	35
47.5	35	2
55	2	1
65	1	1
75	1	1
85	1	1
90	0	0

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

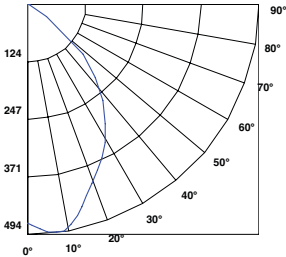
RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	61	61	61	61	61	61	
1	68	66	64	62	66	64	63	61	62	61	59	60	59	57	57	57	56	55	55	55	55	55	55	
2	63	60	56	54	62	58	56	53	56	54	52	55	53	51	53	51	50	49	49	49	49	49	49	
3	59	54	50	47	58	53	50	47	51	48	46	50	47	45	48	46	45	43	43	43	43	43	43	
4	55	49	45	42	54	48	44	41	47	44	41	46	43	40	44	42	40	39	39	39	39	39	39	
5	51	45	40	37	50	44	40	37	43	39	37	42	39	36	41	38	36	35	35	35	35	35	35	
6	48	41	37	33	47	41	36	33	40	36	33	39	35	33	38	35	32	31	31	31	31	31	31	
7	45	38	33	30	44	37	33	30	36	33	30	36	32	30	35	32	29	28	28	28	28	28	28	
8	42	35	30	27	41	34	30	27	34	30	27	33	30	27	32	29	27	26	26	26	26	26	26	
9	39	32	28	25	39	32	28	25	31	28	25	31	27	25	30	27	25	24	24	24	24	24	24	
10	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23	22	22	22	22	22	22	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV6PL-1X18-E-6101CL / HVR6PL-1X18-E-6101CL / HVJ6PL1X18-E-6101CL- / BHVR6PL-1X18-E-6101CL/ CV6PL-1X18-E-6101CL TEST NO.: LLI 0509-15G-P18  
 LAMP: GE F18TBX/841/A/ECO LUMENS: 1200 TOTAL LUMINAIRE EFFICIENCY: 60.7% SPACING CRITERIA: 1.14

### Candle Power Distribution (Candelas)



Beam Angle: 110°		
4'	29.4	11.3'
6'	13.1	17.0'
8'	7.3	22.7'
10'	4.7	28.3'
12'	3.3	34.0'

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°	324.05	27	44.5
0-40°	477.51	39.8	65.6
0-60°	699.67	58.3	96.1
0-90°	727.84	60.7	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	727.84	60.7	100

Total Luminaire Efficiency = 60.7%

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	13884	13884	13884
55°	4314	4314	4314
65°	374	374	374
75°	407	407	407
85°	604	604	604

### Zonal Lumen Summary

Zone	Lumens
0-10	37.87
10-20	127.1
20-30	159.08
30-40	153.45
40-50	156.14
50-60	66.02
60-70	23.71
70-80	2.57
80-90	1.89

### Candela Tabulation

Zone	Lumens	Candela
0	0	470
1	470	474
3	482	482
5	490	490
7	494	492
9	492	481
11	481	466
13	466	450
15	450	431
17	431	409
19.5	409	387
22.5	387	365
25.5	365	339
29	339	305
33	305	262
37.5	262	214
42.5	214	159
47.5	159	47
55	47	3
65	3	2
75	2	1
85	1	1
90	0	0

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	72	72	72	72	71	71	71	71	67	67	67	65	65	65	62	62	62	61	61	61	61	61	61	
1	68	66	64	62	66	64	63	61	62	61	59	60	59	58	58	57	56	55	55	55	55	55	55	
2	63	60	57	54	62	59	56	53	57	54	52	55	53	51	53	51	50	49	49	49	49	49	49	
3	59	54	50	47	58	53	50	47	52	48	46	50	47	45	49	46	45	43	43	43	43	43	43	
4	55	49	45	42	54	48	44	41	47	44	41	46	43	40	45	42	40	39	39	39	39	39	39	
5	51	45	40	37	50	44	40	37	43	39	37	42	39	36	41	38	36	35	35	35	35	35	35	
6	48	41	37	33	47	41	36	33	40	36	33	39	35	33	38	35	32	31	31	31	31	31	31	
7	45	38	33	30	44	37	33	30	36	33	30	36	32	30	35	32	29	28	28	28	28	28	28	
8	42	35	30	27	41	35	30	27	34	30	27	33	30	27	32	29	27	26	26	26	26	26	26	
9	39	32	28	25	39	32	28	25	31	28	25	31	27	25	30	27	25	24	24	24	24	24	24	
10	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23	22	22	22	22	22	22	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV6PL-1X26-E-6101CL / HVR6PL-1X26-E-6101CL / HVJ6PL1X26-E-6101CL- / BHVR6PL-1X26-E-6101CL/ CV6PL-1X26-E-6101CL TEST NO.: LLI 0509-15G-P26

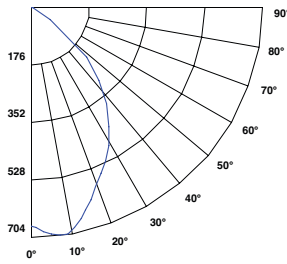
LAMP: GE F26TBX/841/A/ECO

LUMENS: 1710

TOTAL LUMINAIRE EFFICIENCY: 60.6%

SPACING CRITERIA: 1.14

### Candle Power Distribution (Candelas)



Beam Angle: 110°		
4'	41.8	11.3'
6'	18.6	17.0'
8'	10.5	22.7'
10'	6.7	28.3'
12'	4.7	34.0'
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°	461.83	27	44.6
0-40°	680.54	39.8	65.7
0-60°	996.79	58.3	96.2
0-90°	1036.25	60.6	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	1036.25	60.6	100

Total Luminaire Efficiency = 60.6%

### Luminaire Data (cd/sq.m)

Angle In Degrees	Average		
	0°	45°	90°
45°	19766	19766	19766
55°	6149	6149	6149
65°	498	498	498
75°	407	407	407
85°	1208	1208	1208

### Zonal Lumen Summary

Zone	Lumens
0-10	53.96
10-20	181.16
20-30	226.7
30-40	218.71
40-50	222.35
50-60	93.9
60-70	33.67
70-80	3.09
80-90	2.7

### Candela Tabulation

Zone	Lumens	0	0
0-10	53.96	0	669
10-20	181.16	1	675
20-30	226.7	3	687
30-40	218.71	5	698
40-50	222.35	7	704
50-60	93.9	9	701
60-70	33.67	11	685
70-80	3.09	13	665
80-90	2.7	15	641
		17	615
		19.5	582
		22.5	551
		25.5	521
		29	483
		33	435
		37.5	373
		42.5	305
		47.5	226
		55	67
		65	4
		75	2
		85	2
		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%	50%	30%	10%	0%			
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	62	61	61	61	61	61		
1	68	66	64	62	66	64	63	61	62	61	59	60	59	58	58	57	56	55	55	55	55	55	55		
2	63	60	57	54	62	59	56	53	56	54	52	55	53	51	53	51	50	49	49	49	49	49	49		
3	59	54	50	47	58	53	50	47	51	48	46	50	47	45	48	46	45	43	43	43	43	43	43		
4	55	49	45	42	54	48	44	41	47	44	41	46	43	40	44	42	40	39	39	39	39	39	39		
5	51	45	40	37	50	44	40	37	43	39	37	42	39	36	41	38	36	35	35	35	35	35	35		
6	48	41	37	33	47	41	36	33	40	36	33	39	35	33	38	35	32	31	31	31	31	31	31		
7	45	38	33	30	44	37	33	30	36	33	30	36	32	30	35	32	29	28	28	28	28	28	28		
8	42	35	30	27	41	35	30	27	34	30	27	33	30	27	32	29	27	26	26	26	26	26	26		
9	39	32	28	25	39	32	28	25	31	28	25	31	27	25	30	27	25	24	24	24	24	24	24		
10	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23	22	22	22	22	22	22		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV6PL-1X32-E-6101CL / HVR6PL-1X32-E-6101CL / HVJ6PL1X32-E-6101CL- / BHVR6PL-1X32-E-6101CL/ CV6PL-1X32-E-6101CL TEST NO.: LLI 0509-15G

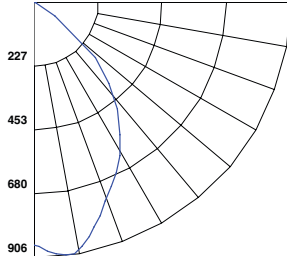
LAMP: GE F32TBX/841/A/ECO

LUMENS: 2200

TOTAL LUMINAIRE EFFICIENCY: 60.6%

SPACING CRITERIA: 1.14

### Candle Power Distribution (Candelas)



Beam Angle: 110°		
4'	53.8	11.3'
6'	23.9	17.0'
8'	13.5	22.7'
10'	8.6	28.3'
12'	6	34.0'
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°	594.18	27	44.6
0-40°	875.74	39.8	65.7
0-60°	1282.91	58.3	96.2
0-90°	1333.43	60.6	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	1333.43	60.6	100

Total Luminaire Efficiency = 60.6%

### Luminaire Data (cd/sq.m)

Angle In Degrees	Average		
	0°	45°	90°
45°	25461	25461	25461
55°	7893	7893	7893
65°	623	623	623
75°	610	610	610
85°	1208	1208	1208

### Zonal Lumen Summary

Zone	Lumens
0-10	69.44
10-20	233.05
20-30	291.7
30-40	281.56
40-50	286.35
50-60	120.82
60-70	43.16
70-80	4.12
80-90	3.24

### Candela Tabulation

Zone	Lumens	0	0
0-10	69.44	0	861
10-20	233.05	1	869
20-30	291.7	3	884
30-40	281.56	5	898
40-50	286.35	7	906
50-60	120.82	9	902
60-70	43.16	11	881
70-80	4.12	13	855
80-90	3.24	15	825
		17	791
		19.5	749
		22.5	709
		25.5	670
		29	622
		33	560
		37.5	480
		42.5	393
		47.5	291
		55	86
		65	5
		75	3
		85	2
		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%	50%	30%	10%	0%			
0	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	62	61	61	61	61	61		
1	68	66	64	62	66	64	63	61	62	61	59	60	59	58	58	57	56	55	55	55	55	55	55		
2	63	60	57	54	62	59	56	53	56	54	52	55	53	51	53	51	50	49	49	49	49	49	49		
3	59	54	50	47	58	53	50	47	51	48	46	50	47	45	48	46	45	43	43	43	43	43	43		
4	55	49	45	42	54	48	44	41	47	44	41	46	43	40	44	42	40	39	39	39	39	39	39		
5	51	45	40	37	50	44	40	37	43	39	37	42	39	36	41	38	36	35	35	35	35	35	35		
6	48	41	37	33	47	41	36	33	40	36	33	39	35	33	38	35	32	31	31	31	31	31	31		
7	45	38	33	30	44	37	33	30	36	33	30	36	32	30	35	32	29	28	28	28	28	28	28		
8	42	35	30	27	41	35	30	27	34	30	27	33	30	27	32	29	27	26	26	26	26	26	26		
9	39	32	28	25	39	32	28	25	31	28	25	31	27	25	30	27	25	24	24	24	24	24	24		
10	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23	22	22	22	22	22	22		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HV6PL-1X42-E-6101CL / HVR6PL-1X42-E-6101CL / HVJ6PL1X42-E-6101CL- / BHVR6PL-1X42-E-6101CL/ CV6PL-1X42-E-6101CL TEST NO.: LLI 0509-15G-P42

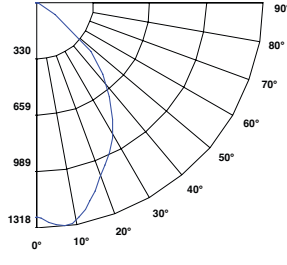
LAMP: GE F42TBX/841/A/ECO

LUMENS: 3200

TOTAL LUMINAIRE EFFICIENCY: 60.6%

SPACING CRITERIA: 1.16

### Candle Power Distribution (Candelas)



Beam Angle: 110°		
4'	78.3	11.3'
6'	34.8	17.0'
8'	19.6	22.7'
10'	12.5	28.3'
12'	8.7	34.0'
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°	864.32	27	44.6
0-40°	1273.97	39.8	65.7
0-60°	1866.16	58.3	96.2
0-90°	1939.02	60.6	100
90-120°	0	0	0
90-130°	0	0	0
90-150°	0	0	0
90-180°	0	0	0
0-180°	1939.02	60.6	100

Total Luminaire Efficiency = 60.6%

### Luminaire Data (cd/sq.m)

Angle In Degrees	Average		
	0°	45°	90°
45°	370		