



## 22" Low/Mid/High Bay 14100 Lm Decorative Housing



### PRSV22GV & ALSVD22GV

#### APPLICATION

22" Lumen Max GV series decorative performance pendant for low, mid-bay and high-bay applications. Prismatic refractor provides horizontal and vertical distribution. Aluminum reflector designed for maximum downlight.

#### FEATURES

Decorative spun driver housing (SVD) features traditional design. Single-stage optical system for smooth light distribution. LED module and driver designed for ease of maintenance and replacement. Optional safety cable. Variety of optical lenses and mounting methods.

#### FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines.

A wide variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion.

#### ELECTRONICS

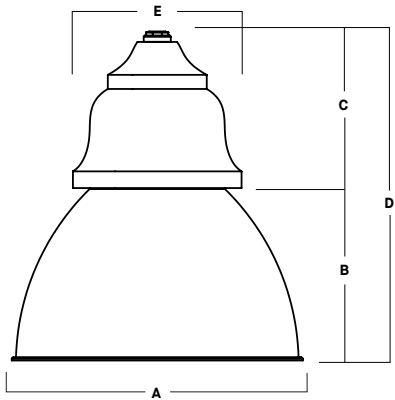
GV LED system features high brightness white Samsung LED's. 3-step MacAdam Ellipse binning. Standard CRI: 80/90. Custom LED configurations are available, consult factory. Variety of electronic 120V/277V and dimming drivers.

#### CONSTRUCTION

Housing constructed of extruded and machined aluminum to resist corrosion. Extruded and machined 6063-T5 aluminum heat sink. Refractor made of cast UV stabilized acrylic. Reflector made of spun .060" aluminum.

#### CODE COMPLIANCE

BAA compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL standards No. 1598/8750.



Dimensioned with PRISMATIC

SHADES	A	B	C	D	E
PRISMATIC	22.4 569.0 mm	13.4 340.4 mm	12.2 309.9 mm	25.6 650.2 mm	13.0 330.2 mm
ALUMINUM	22.4 569.0 mm	8.8 223.5 mm	12.2 309.9 mm	21.0 533.4 mm	13.0 330.2 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
PRSV22GV110L	8807	77	114
PRSV22GV150L	11741	102	115
PRSV22GV180L	14102	116	122

<sup>1</sup> Nominal Delivered Lumens at 35K at 85 CRI with PR22

SERIES	LUMENS <sup>1</sup>	CCT	DRIVER / DIMMING <sup>2</sup>	SAFETY OPTIONS <sup>3</sup>	MOUNTING <sup>4</sup>	SHADE	ENCLOSURE OPTIONS	OPTIONS	FINISH <sup>13</sup>	MOUNTING OPTION <sup>15</sup>
PRISMATIC PRSV22GV	110L 8800 Lm 150L 11750 Lm 180L 14100 Lm	80 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	EX Electronic Driver, 120V/277V DS10X 10% 0-10V, 120V/277V DO10X 1% 0-10V, 120V/277V	FS Fusing 2CIR 2 Circuit SCT Safety Cable	HM <sup>5</sup> Hang Straight PM <sup>5</sup> Rigid Pendant CD <sup>5</sup> Cord / Cable Mount HC <sup>5/6/7</sup> Hook & Cord NM2 <sup>5/7/8</sup> 1/2" NPT Hub NM3 <sup>5/7/8</sup> 3/4" NPT Hub	PRISMATIC DF22 22" Diffuse PR22 22" Clear	ACCESSORIES DR22A <sup>10</sup> 22" Spun Door BC22 22" Band Clamp RS22 <sup>11</sup> 22" Refractor Shroud	SC2 Safety Cable Reflector to door	MW <sup>14</sup> Matte White MB <sup>14</sup> Matte Black PT <sup>14</sup> Platinum Silver CC Custom Color	FCHMA Field Cuttable Mounting Kit for Hang Mount Fixtures
ALUMINUM ALSVD22GV		90 CRI 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K			EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	ALUMINUM AL22/MWF <sup>12</sup> Matte White Inside AL22/FCI <sup>10</sup> Fixture Color Inside	DR22AWAG <sup>10/12</sup> 22" Door with Wire Guard WAG22 <sup>12</sup> 22" Wire Guard	PC Clear Polycarbonate FO White Optical Acrylic PP Prismatic Polycarbonate PC Clear Polycarbonate		

**EXAMPLE:** PRSV22GV150L35KEX/HM36/PR22/DR22ACN/MW

#### NOTES:

<sup>1</sup> Nominal Delivered Lumens at 35K at 85 CRI with PR22 <sup>2</sup> Contact Factory for Additional Options <sup>3</sup> See Product Options Page For Details <sup>4</sup> See Mounting Page for Details on Components and Finishes <sup>5</sup> Specify Length in Inches: See Mounting Page for Available Lengths <sup>6</sup> Mounting Supplied by Others <sup>7</sup> Not Available with EMCR <sup>8</sup> 12" Leads Unless Specified <sup>9</sup> Reflector Finished Matte White with Finish Color Out <sup>10</sup> Same Finish as Housing <sup>11</sup> Same Finish as Housing / For Use with Prismatic Shades Only <sup>12</sup> No Color <sup>13</sup> Reference Color Sheet Located on Product Webpage for Full List of Available Colors <sup>14</sup> Standard Finishes <sup>15</sup> Field Cuttable Mounting Kit only Available with HM Stem



PROJECT: \_\_\_\_\_  
QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_



# 22" PRISMATIC & ALUMINUM SVD SERIES



## SERIES TYPE ALUMINUM



## PRISMATIC



## STANDARD FINISHES

**MW**  
MATTE WHITE



PRSDV22GV HM MATTE WHITE

**MB**  
MATTE BLACK



PRSDV22GV HM MATTE BLACK

**PT**  
PLATINUM SILVER



PRSDV22GV HM PLATINUM SILVER

## MOUNTING TYPES

**HM / PM**  
HANG STRAIGHT / PENDANT



PRSDV22GV SHOWN WITH PM

**CD**  
CORD / CABLE MOUNT



PRSDV22GV SHOWN WITH CD

**HC**  
HOOK CORD



PRSDV22GV SHOWN WITH HC

**NM**  
NO MOUNT



PRSDV22GV SHOWN WITH NM



# MOUNTING & ACCESSORIES

SOME OPTIONS NOT AVAILABLE ON ALL FIXTURES. CONSULT SPECIFICATION SHEETS. SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION. NOTE: THIS IS TYPICAL OF RLM SPECIFICATION FOR MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.



## ADDITIONS

### FS - Fusing

Slow blow type fuse protects fixture against voltage surges. Factory installed.



## SAFETY CABLE OPTIONS

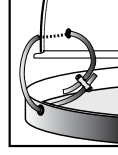
### SC1 - Safety Cable

1/16" stainless steel safety cable for added support. Standard kit is 18" and double barrel locks are provided. Approved for California seismic requirements. Rated at 50 lbs.



### SC2 - Safety Cable, Refractor to Door

1/16" Stainless steel cable holds door to fixture



## OPTIONS

### DOOR

**DR22A**-22" Spun Door  
**BC22**-22" Band Clamp  
**RS22**-22" Refractor Shroud

### LENSES

**CNFR**-Conical Frosted Lens  
**CN**-Conical Lens  
**DL**-Drop Lens  
**FO**-White Optical Acrylic  
**PP**-Prismatic Polycarbonate  
**PC**-Clear Polycarbonate



DR22A SHOWN WITH CN

### DOOR & GUARD

**DR22AWAG**-22" Door with Wire Guard

### LENSES

**FO**-White Optical Acrylic  
**PP**-Prismatic Polycarbonate  
**PC**-Clear Polycarbonate



DR22AWAG SHOWN WITH FO

### GUARD OPTION

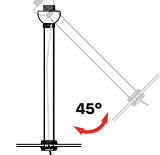
**WAG22**-22" Wire Guard



## MOUNTING TYPES

### HM\* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

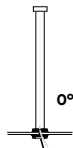


ORDER: **HM** (Length)  
 SPECIFY LENGTH:  
**HM3** - 3"    **HM24** - 24"  
**HM6** - 6"    **HM36** - 36"  
**HM12** - 12"    **HM48** - 48"  
**HM18** - 18"    **HM72** - 72"  
**HMLC(XX)**  
 Custom Length  
 (Specify in Inches)

TO TRIM HM STEM IN FIELD ORDER FCHMA KIT.

### PM\* - Ridgid Pendant Mount

RIGID 5/8" OD STEM - 3/8" IP



ORDER: **PM** (Length)  
 SPECIFY LENGTH:  
**PM3** - 3"    **PM24** - 24"  
**PM6** - 6"    **PM36** - 36"  
**PM12** - 12"    **PM48** - 48"  
**PM18** - 18"    **PM72** - 72"  
**PMLC(XX)**  
 Custom Length  
 (Specify in Inches)

### CD - Cord / Cable Mount

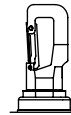
SJ CORD WITH 1/16 SS CABLE



ORDER: **CD** (Length)  
 SPECIFY LENGTH:  
**CD36** - 36"  
**CD72** - 72"  
**CD144** - 144"  
**CDLC(XX)**  
 Custom Length  
 (Specify in Inches)

### HC - Hook & Cord

FOR INDEPENDENT MOUNTING



ORDER: **HC** (Length)  
 SPECIFY LENGTH:  
**HC36** - 36"  
**HC72** - 72"  
**HC144** - 144"  
**HCLC(XX)**  
 Custom Length  
 (Specify in Inches)

### NM2 - 1/2" NPT Hub

**NM3** - 3/4" NPT Hub  
 FOR INDEPENDENT MOUNTING



ORDER: **NMX** (Length)  
 SPECIFY LENGTH:  
**NM2(12)** - 12" Leads are Standard  
**NM3(12)** - 12" Leads are Standard  
**NMXLC(XX)**  
 Custom Length  
 (Specify in Inches)

\*MAXIMUM ONE PIECE STEM LENGTH IS 72".  
 LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

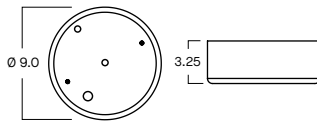
## MOUNTING OPTION

**FCHMA** - FIELD CUTTABLE MOUNTING KIT FOR HANG MOUNT FIXTURES



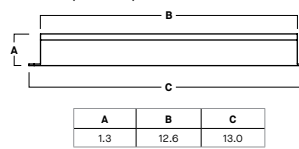
## EMERGENCY BATTERY OPTIONS

**EMCR** - LARGE DRIVER CANOPY FOR 10W EMERGENCY BATTERY

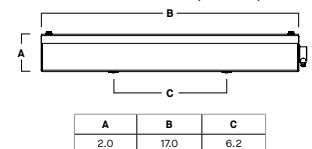


## REMOTE EMERGENCY BATTERY OPTIONS

**EMRM\*** - 7W REMOTE EMERGENCY BATTERY (50' MAX)



**EMEN\*** - 7W REMOTE EMERGENCY BATTERY WITH ENCLOSURE (50' MAX)



\*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY



# 22" PRISMATIC

## SVD SERIES / PHOTOMETRIC DATA



PRDDH22LEDGV-180L-35K-Ex/xx/xx/PR22/CNFR/XX

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
	0.00°	0° - 10°	589	4%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		
	0.00°	6.016	0° - 20°	2,500	19%				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.			
	5.00°	5,923	0° - 30°	5,595	42%	10.0'	60 fc	16.4'	29 fc	22'	20'	32	0.38	27	0.38
	10.00°	6,274	0° - 40°	8,621	65%	12.0'	42 fc	19.7'	20 fc	26'	22'	20	0.24	17	0.24
	15.00°	6,868	0° - 60°	11,183	85%	14.0'	31 fc	23.0'	15 fc	32'	24'	18	0.22	10	0.14
	20.00°	7,058	0° - 80°	11,794	89%	16.0'	24 fc	26.3'	11 fc	Delivered Illuminance Rating: (DIR)		85 FC per W/Sq. Ft.		70 FC per W/Sq. Ft.	
	30.00°	6,269	0° - 90°	11,971	91%	20.0'	15 fc	32.9'	7 fc	2' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by -4% ** Exceeds spacing criteria by -16% *** Exceeds spacing criteria by -30%					
	40.00°	3,343	Total	13,215	100%	24.0'	10 fc	39.4'	5 fc	Lamp Multiplier: 110L x 0.65, 150L x 0.88, 180L x 1					
	50.00°	1,311				28.0'	8 fc	46.0'	4 fc	CCT Multiplier: 50K x 1.07, 40K x 1.03, 30K x 0.983, 27K x 0.967					
	60.00°	543				32.0'	6 fc	52.6'	3 fc						
	70.00°	272													
	80.00°	196													
90.00°	160														

Delivered Lumens: 13,215  
Luminaire Watts: 142  
LER: 93.06

CP at 0deg (Nadir): 6.016  
CRI: 80+

Beam Angle: 78.74  
Spacing Ratio: 1.35

Lamp Multiplier: 110L x 0.65, 150L x 0.88, 180L x 1  
CCT Multiplier: 50K x 1.07, 40K x 1.03, 30K x 0.983, 27K x 0.967



# 22" ALUMINUM

## SVD SERIES / PHOTOMETRIC DATA



ALxxx22LEDGV-180L-40K-EX-AL22

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT												
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4								
	0.00°																		
	0.00°	6,925	0° - 10°	698	5%	10.0'	69 fc	21.3'	29 fc	22'	20'	36	0.31	29	0.31				
	5.00°	6,972	0° - 20°	2,643	18%	12.0'	48 fc	25.5'	20 fc	26'	22''	23	0.20	18	0.20				
	10.00°	7,015	0° - 30°	5,508	38%	14.0'	35 fc	29.8'	15 fc	32'	24'''	21	0.18	24	0.26				
	15.00°	7,012	0° - 40°	8,882	62%	16.0'	27 fc	34.0'	11 fc	Delivered Illuminance Rating: (DIR)		116 FC per W/Sq. Ft.		94 FC per W/Sq. Ft.					
	20.00°	6,875	0° - 60°	13,237	92%	20.0'	17 fc	42.5'	7 fc	4' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 5% ** Exceeds spacing criteria by -8% *** Exceeds spacing criteria by -23%									
	30.00°	5,745	0° - 80°	14,313	99%	24.0'	12 fc	51.0'	5 fc										
	40.00°	4,903	0° - 90°	14,424	100%	28.0'	9 fc	59.5'	4 fc										
	50.00°	2,731	Total	14,424	100%	32.0'	7 fc	68.0'	3 fc										
	60.00°	838																	
	70.00°	531																	
	80.00°	243																	
	90.00°	1																	

Delivered Lumens: 14,424  
Luminaire Watts: 116  
LER: 124.34

CP at 0deg (Nadir): 6,925  
CRI: 80+

Beam Angle: 94.22  
Spacing Ratio: 1.23

Lamp Multiplier: 110L x 0.67, 150L x 0.89  
CCT Multiplier: 27K x 0.93, 30K x 0.95, 35K x 0.97, 50K x 1.03

ALxxx22LEDGV-180L-40K-EX-AL22-DR22-FO

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT												
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4								
	0.00°																		
	0.00°	3,601	0° - 10°	407	5%	10.0'	36 fc	23.6'	14 fc	22'	20'	21	0.31	17	0.31				
	5.00°	3,576	0° - 20°	1,355	15%	12.0'	25 fc	28.3'	10 fc	26'	22''	13	0.20	11	0.20				
	10.00°	3,497	0° - 30°	2,743	31%	14.0'	18 fc	33.0'	7 fc	32'	24'''	12	0.18	14	0.26				
	15.00°	3,392	0° - 40°	4,362	49%	16.0'	14 fc	37.7'	6 fc	Delivered Illuminance Rating: (DIR)		68 FC per W/Sq. Ft.		54 FC per W/Sq. Ft.					
	20.00°	3,215	0° - 60°	7,349	83%	20.0'	9 fc	47.2'	4 fc	4' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 9% ** Exceeds spacing criteria by -4% *** Exceeds spacing criteria by -20%									
	30.00°	2,867	0° - 80°	8,787	99%	24.0'	6 fc	56.6'	2 fc										
	40.00°	2,367	0° - 90°	8,896	100%	28.0'	5 fc	66.0'	2 fc										
	50.00°	1,837	Total	8,896	100%	32.0'	4 fc	75.4'	1 fc										
	60.00°	1,277																	
	70.00°	686																	
	80.00°	222																	
	90.00°	28																	

Delivered Lumens: 8,896  
Luminaire Watts: 116  
LER: 76.69

CP at 0deg (Nadir): 3,601  
CRI: 85+

Beam Angle: 99.24  
Spacing Ratio: 1.18

Lamp Multiplier: 110L x 0.67, 150L x 0.89  
CCT Multiplier: 27K x 0.93, 30K x 0.95, 35K x 0.97, 50K x 1.03

ALxxx22LEDGV-180L-40K-EX-AL22-DR22-PP

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT												
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4								
	0.00°																		
	0.00°	5,230	0° - 10°	696	6%	10.0'	52 fc	14.5'	25 fc	22'	20'	27	0.31	22	0.31				
	5.00°	5,858	0° - 20°	2,561	24%	12.0'	36 fc	17.5'	18 fc	26'	22''	17	0.20	14	0.20				
	10.00°	6,576	0° - 30°	5,026	46%	14.0'	27 fc	20.4'	13 fc	32'	24'''	16	0.18	8	0.11				
	15.00°	6,765	0° - 40°	7,273	67%	16.0'	20 fc	23.3'	10 fc	Delivered Illuminance Rating: (DIR)		88 FC per W/Sq. Ft.		73 FC per W/Sq. Ft.					
	20.00°	6,259	0° - 60°	9,791	90%	20.0'	13 fc	29.1'	6 fc	4' Suspension Length Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50 * Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 4% ** Exceeds spacing criteria by -9% *** Exceeds spacing criteria by -24%									
	30.00°	4,670	0° - 80°	10,753	99%	24.0'	9 fc	34.9'	4 fc										
	40.00°	2,715	0° - 90°	10,858	100%	28.0'	7 fc	40.7'	3 fc										
	50.00°	1,457	Total	10,858	100%	32.0'	5 fc	46.5'	2 fc										
	60.00°	768																	
	70.00°	481																	
	80.00°	195																	
	90.00°	31																	

Delivered Lumens: 10,858  
Luminaire Watts: 116  
LER: 93.60

CP at 0deg (Nadir): 5,230  
CRI: 85+

Beam Angle: 72.55  
Spacing Ratio: 1.24

Lamp Multiplier: 110L x 0.67, 150L x 0.89  
CCT Multiplier: 27K x 0.93, 30K x 0.95, 35K x 0.97, 50K x 1.03



# 22" ALUMINUM

## SVD SERIES / PHOTOMETRIC DATA



ALxxx22LEDGV-180L-40K-EX-AL22-DR22-PC

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT							
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4			
	0.00°	0° - 10°	737	6%	10.0'	64 fc	20.7'	28 fc	22'	20'	32	0.31	27	0.31
	5.00°	0° - 20°	2,522	19%	12.0'	45 fc	24.8'	19 fc	26'	22''	20	0.20	17	0.20
	10.00°	0° - 30°	5,151	40%	14.0'	33 fc	29.0'	14 fc	32'	24'''	19	0.18	22	0.26
	15.00°	0° - 40°	8,230	63%	16.0'	25 fc	33.1'	11 fc	Delivered Illuminance Rating: (DIR)					
	20.00°	0° - 60°	12,132	93%	20.0'	16 fc	41.4'	7 fc	4' Suspension Length					
	30.00°	0° - 80°	12,922	100%	24.0'	11 fc	49.7'	5 fc	Square rooms used for multiple units: - RCR 2: Length & Width = Ceiling Ht. - 6.5' x 5.00 - RCR 4: Length & Width = Ceiling Ht. - 6.5' x 2.50					
	40.00°	0° - 90°	12,976	100%	28.0'	8 fc	58.0'	4 fc	* Average Footcandles at 2.5' Above Floor					
	50.00°	Total	12,976	100%	32.0'	6 fc	66.3'	3 fc	* Exceeds spacing criteria by -5%					
	60.00°								** Exceeds spacing criteria by -8%					
	70.00°								*** Exceeds spacing criteria by -23%					
	80.00°													
90.00°														

Delivered Lumens: 12,976  
Luminaire Watts: 116  
LER: 111.86

CP at 0deg (Nadir): 6,449  
CRI: 85+

Beam Angle: 92.41  
Spacing Ratio: 1.23

Lamp Multiplier: 110L x 0.67, 150L x 0.89  
CCT Multiplier: 27K x 0.93, 30K x 0.95, 35K x 0.97, 50K x 1.03

### HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.</p> $FC_H = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = <math>\frac{1}{2}</math> Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> <li>- CP Candela at 0° (Nadir)</li> <li>- Cos <math>\theta</math> Cosine of <math>\theta</math> Angle</li> <li>- D Distance (Mounting Height AFF)</li> <li>- FC<sub>H</sub> Footcandles, Horizontal</li> <li>- Beam Angle Cone of light to 50% max. CP</li> <li>- Beam Diam. Pattern of light at Beam Angle</li> </ul>	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR®): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> <li>- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): <math>FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}</math></li> <li>- To estimate Sq. Ft. per fixture for a specific target FC: <math>\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}</math></li> </ul> <ul style="list-style-type: none"> <li>- To estimate Fixture Quantity in a room: <math>\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}</math></li> <li>- To estimate Watts/Sq. Ft.: <math>W/ \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}</math></li> </ul>

