



# 12" Low/Mid Bay 4900 Lm

Quick Ship



## PRDDH12GV & ALDDH12GV

### APPLICATION

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

### FEATURES

Domed Fixture Housing (DDH) features a contemporary design and is easy to maintain. 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. Variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion. Standard Matte White interior finish on reflectors.

### 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

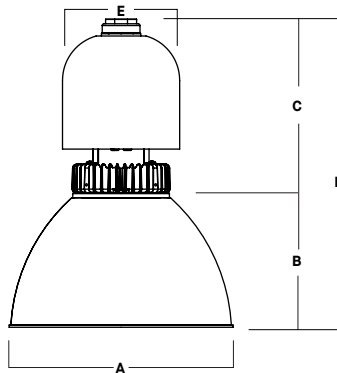
Housing constructed of extruded and machined aluminum to resist corrosion. Graphite gasket for optimal thermal management. Die-cast aluminum heat sink. Refractor made of cast UV stabilized acrylic. Reflector made of spun .060" aluminum.

### 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.

### QUICK SHIP

Quick Ship Surface highlights products that can ship in 5 - 10 working days.



Dimensioned with **PRISMATIC**

SHADES	A	B	C	D	E
<b>PRISMATIC</b>	12.4 315.0 mm	7.4 188.0 mm	8.7 221.0 mm	16.1 408.9 mm	6.5 165.1 mm
<b>ALUMINUM</b>	12.5 317.5 mm	8.0 203.2 mm	8.7 221.0 mm	16.7 424.2 mm	6.5 165.1 mm

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
PRDDH12GV15L	1323	10	132
PRDDH12GV27L	2303	18	128
PRDDH12GV37L	3381	26	130
PRDDH12GV55L	4999	39	126

<sup>1</sup> Nominal Delivered Lumens at 35K with DF12/DR12A/CNFR

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 <b>PRDDH12GV</b>	<b>15L</b> 1300 Lm <b>27L</b> 2300 Lm <b>37L</b> 3400 Lm <b>55L</b> 4900 Lm	80 CRI	<b>EX</b> Electronic Driver, 120V/277V <b>DS10X</b> 10%, 0-10V, 120V/277V <b>DO10X</b> 1%, 0-10V, 120V/277V <b>DO103</b> 1%, 0-10V, 347V	<b>FS</b> Fusing <b>SC1</b> Safety Cable	<b>HM</b> <sup>5</sup> Hang Straight <b>PM</b> <sup>5</sup> Rigid Pendant <b>CD</b> <sup>5</sup> Cord / Cable Mount <b>CD72</b> 72" Cord / Cable Mount <b>HC</b> <sup>5/6/7</sup> Hook & Cord <b>NM2</b> <sup>8/7/8</sup> 1/2" NPT Hub <b>NM3</b> <sup>8/7/8</sup> 3/4" NPT Hub	PRISMATIC <b>PR12</b> 12" Clear <b>DF12</b> 12" Diffuse <b>OP12</b> 12" Opal	ACCESSORIES <b>DR12A</b> <sup>10</sup> 12" Spun Door <b>BC12</b> 12" Band Clamp <b>RS12</b> <sup>11</sup> 12" Refractor Shroud	SC2 Safety Cable Reflector to door	<b>MW</b> <sup>14</sup> Matte White <b>MB</b> <sup>14</sup> Matte Black <b>PT</b> <sup>14</sup> Platinum Silver <b>CC</b> Custom Color	<b>FCMA</b> Field Cuttable Mounting Kit for Hang Mount Fixtures
ALUMINUM <b>ALDDH12GV</b>		90 CRI			EMERGENCY BATTERY OPTIONS <b>EMCR</b> 10W Canopy Mounted EM <b>EMRM</b> 7W Remote EM <b>EMEN</b> 7W Remote with Enclosure	ALUMINUM <b>AL12/MWI</b> <sup>9</sup> Matte White Inside <b>AL12/FCI</b> <sup>10</sup> Fixture Color Inside	<b>DR12AWAG</b> <sup>10/12</sup> 12" Door with Wire Guard <b>WAG12</b> <sup>12</sup> 12" Wire Guard	<b>FO</b> White Optical Acrylic <b>PP</b> Prismatic Polycarbonate <b>PC</b> Clear Polycarbonate None		

### QUICK SHIP

**EXAMPLE:** PRDDH12GV55L27KEX/HM36/PR12/DR12ACN/MW

### NOTES:

<sup>1</sup> Nominal Delivered Lumens at 35K with DF12/DR12A/CNFR <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: \_\_\_\_\_



# 12" PRISMATIC & ALUMINUM DDH SERIES



## SERIES TYPE ALUMINUM



## PRISMATIC



## STANDARD FINISHES

**MW**  
MATTE WHITE



PRDDH12GV HM MATTE WHITE

**MB**  
MATTE BLACK



PRDDH12GV HM MATTE BLACK

**PT**  
PLATINUM SILVER



PRDDH12GV HM PLATINUM SILVER

## MOUNTING TYPES

**HM / PM**  
HANG STRAIGHT / PENDANT



PRDDH12GV SHOWN WITH PM

**CD**  
CORD / CABLE MOUNT



PRDDH12GV SHOWN WITH CD

**HC**  
HOOK CORD



PRDDH12GV SHOWN WITH HC

**NM**  
NO MOUNT



PRDDH12GV 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

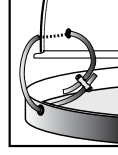
### SC1 - Safety Cable

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

**DR12A**-12" Spun Door  
**BC12**-12" Band Clamp  
**RS12**-12" Refractor Shroud

### LENSES

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



DR12A SHOWN WITH CN

### DOOR & GUARD

**DR12AWAG**-12" Door with Wire Guard

### LENSES

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



DR12AWAG SHOWN WITH FO

### GUARD OPTION

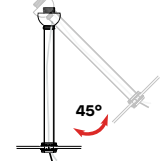
**WAG12**-12" Wire Guard



## MOUNTING TYPES

### HM\* - Hang Straight

45° SWIVEL 5/8" OD STEM - 3/8" IP

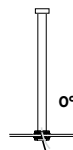


ORDER: **HM** (Length)  
SPECIFY LENGTH:  
**HM3** - 3"    **HM24** - 24"  
**HM6** - 6"    **HM36** - 36"  
**HM12** - 12"    **HM48** - 48"  
**HM18** - 18"    **HM72** - 72"  
**HMLC(XX)**  
Custom Length  
(Specify in Inches)

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

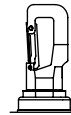
SJ CORD WITH 1/16 SS CABLE



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.

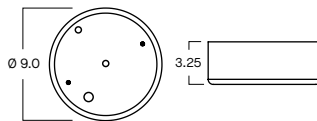
## MOUNTING OPTION

**FCHMA** - Field Cuttable Mounting Kit For Hang Mount Fixtures



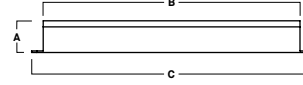
## EMERGENCY BATTERY OPTIONS

**EMCR** - Large Driver Canopy For 10W Emergency Battery



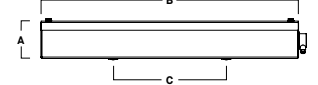
## REMOTE EMERGENCY BATTERY OPTIONS

**EMRM\*** - 7W Remote Emergency Battery (50' Max)



A	B	C
1.3	12.6	13.0

**EMEN\*** - 7W Remote Emergency Battery with Enclosure (50' Max)



A	B	C
2.0	17.0	6.2

\*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY



# 12" PRISMATIC

## DDH SERIES / PHOTOMETRIC DATA



PRDDH12GV 55L 35K XX PR12 NL MW

CANDLEPOWER CURVE TEST SP-00456_34	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT											
	0°	0° - 10°	577	11%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		
	0°	6397	0° - 30°	3291							65%	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	20°	3603	0° - 60°	4828	95%	8'	100 fc	7.1'	38 fc	18'	9'	68	0.49	67	0.56
	40°	691	90° - 120°	37	1%	10'	64 fc	8.9'	24 fc	22'	11'	45	0.32	39	0.32
	60°	127	90° - 150°	68	1%	12'	44 fc	10.7'	17 fc	26'	13'	33	0.24	25	0.21
	80°	31	0° - 90°	5006	99%	14'	33 fc	12.5'	12 fc	Delivered Illuminance Rating: (DIR)					
	90°	17	90° - 180°	72	1%	16'	25 fc	14.3'	10 fc	139 FC per W/Sq. Ft. 119 FC per W/Sq. Ft.					
	100°	11	Total	5079	100%	20'	16 fc	17.8'	6 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor * Exceeds Spacing Ratio by 6%					
	120°	14				24'	11 fc	21.4'	4 fc						
	140°	11				28'	8 fc	25.0'	3 fc						
	160°	5													
	180°	2													

Delivered Lumens: 5079  
Luminaire Watts: 39  
LER: 130.23

CP at 0° (Nadir): 6397  
CRI: 83

Beam Angle: 50°  
Spacing Ratio: 0.68

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

PRDDH12GV 55L 35K XX PR12 DR12A CNFR MW

CANDLEPOWER CURVE TEST SP-00456_29	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT											
	0°	0° - 10°	268	5%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		
	0°	2760	0° - 30°	2150							44%	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	20°	2623	0° - 60°	4111	84%	8'	43 fc	6.1'	11 fc	18'	9'	63	0.49	38	0.36
	40°	1132	90° - 120°	267	5%	10'	28 fc	7.7'	7 fc	22'	11'	41	0.32	34	0.32
	60°	267	90° - 150°	437	9%	12'	19 fc	9.2'	5 fc	26'	13'	27	0.21	22	0.21
	80°	63	0° - 90°	4459	91%	14'	14 fc	10.8'	4 fc	Delivered Illuminance Rating: (DIR)					
	90°	38	90° - 180°	439	9%	16'	11 fc	12.3'	3 fc	128 FC per W/Sq. Ft. 105 FC per W/Sq. Ft.					
	100°	75	Total	4899	100%	20'	7 fc	15.4'	2 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	120°	118				24'	5 fc	18.4'	1 fc						
	140°	39				28'	4 fc	21.5'	1 fc						
	160°	3													
	180°	2													

Delivered Lumens: 4899  
Luminaire Watts: 39  
LER: 125.62

CP at 0° (Nadir): 2760  
CRI: 83

Beam Angle: 75°  
Spacing Ratio: 1.15

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

PRDDH12GV 55L 35K XX PR12 DR12A CN MW

CANDLEPOWER CURVE TEST SP-00456_28	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT											
	0°	0° - 10°	279	6%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		
	0°	2838	0° - 30°	2390							49%	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	20°	2921	0° - 60°	4267	88%	8'	44 fc	6.2'	11 fc	18'	9'	63	0.49	39	0.36
	40°	1166	90° - 120°	216	4%	10'	28 fc	7.8'	7 fc	22'	11'	41	0.32	35	0.32
	60°	167	90° - 150°	357	7%	12'	20 fc	9.3'	5 fc	26'	13'	27	0.21	22	0.21
	80°	44	0° - 90°	4493	93%	14'	14 fc	10.9'	4 fc	Delivered Illuminance Rating: (DIR)					
	90°	27	90° - 180°	359	7%	16'	11 fc	12.4'	3 fc	128 FC per W/Sq. Ft. 107 FC per W/Sq. Ft.					
	100°	62	Total	4852	100%	20'	7 fc	15.6'	2 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	120°	97				24'	5 fc	18.7'	1 fc						
	140°	35				28'	4 fc	21.8'	1 fc						
	160°	3													
	180°	3													

Delivered Lumens: 4852  
Luminaire Watts: 39  
LER: 124.41

CP at 0° (Nadir): 2838  
CRI: 83

Beam Angle: 76°  
Spacing Ratio: 1.25

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06



# 12" PRISMATIC

## DDH SERIES / PHOTOMETRIC DATA



PRDDH12GV 55L 35K XX PR12 DR12A DL MW

CANDLEPOWER CURVE TEST SP-00456_30	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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 1		RCR 3				
	0°	2352	0° - 10°	228	5%	8'	37 fc	6.7'	8 fc	18'	9'	51	0.42	36	0.36
	20°	2428	0° - 30°	2009	44%	10'	24 fc	8.4'	5 fc	22'	11'	39	0.32	32	0.32
	40°	1212	0° - 60°	3951	87%	12'	16 fc	10.1'	4 fc	26'	13'	25	0.21	21	0.21
	60°	180	90° - 120°	223	5%	14'	12 fc	11.7'	3 fc	Delivered Illuminance Rating: (DIR)					
	80°	44	90° - 150°	368	8%	16'	9 fc	13.4'	2 fc	120 FC per W/Sq. Ft. 99 FC per W/Sq. Ft.					
	90°	27	0° - 90°	4192	92%	20'	6 fc	16.8'	1 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	100°	65	90° - 180°	370	8%	24'	4 fc	20.1'	1 fc						
	120°	103	Total	4562	100%	28'	3 fc	23.5'	1 fc						
	140°	31													
	160°	3													
	180°	2													

Delivered Lumens: 4562  
Luminaire Watts: 39  
LER: 116.97

CP at 0° (Nadir): 2352  
CRI: 83

Beam Angle: 80°  
Spacing Ratio: 1.32

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

PRDDH12GV 55L 35K XX PR12 DR12A FO MW

CANDLEPOWER CURVE TEST SP-00456_31	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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 1		RCR 3				
	0°	1242	0° - 10°	119	3%	8'	19 fc	13.1'	1 fc	18'	9'	53	0.49	30	0.36
	20°	1124	0° - 30°	941	21%	10'	12 fc	16.3'	1 fc	22'	11'	35	0.32	27	0.32
	40°	892	0° - 60°	2827	63%	12'	9 fc	19.6'	1 fc	26'	13'	23	0.21	17	0.21
	60°	587	90° - 120°	438	10%	14'	6 fc	22.9'	0 fc	Delivered Illuminance Rating: (DIR)					
	80°	175	90° - 150°	805	18%	16'	5 fc	26.1'	0 fc	109 FC per W/Sq. Ft. 83 FC per W/Sq. Ft.					
	90°	68	0° - 90°	3691	82%	20'	3 fc	32.7'	0 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	100°	114	90° - 180°	807	18%	24'	2 fc	39.2'	0 fc						
	120°	220	Total	4498	100%	28'	2 fc	45.7'	0 fc						
	140°	80													
	160°	2													
	180°	2													

Delivered Lumens: 4498  
Luminaire Watts: 39  
LER: 115.33

CP at 0° (Nadir): 1242  
CRI: 83

Beam Angle: 117°  
Spacing Ratio: 1.20

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

PRDDH12GV 55L 35K XX PR12 DR12A PP MW

CANDLEPOWER CURVE TEST SP-00456_33	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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 1		RCR 3				
	0°	4331	0° - 10°	395	9%	8'	68 fc	3.7'	25 fc	18'	9'	58	0.49	55	0.56
	20°	2791	0° - 30°	2298	50%	10'	43 fc	4.6'	16 fc	22'	11'	38	0.32	32	0.32
	40°	632	0° - 60°	3589	78%	12'	30 fc	5.5'	11 fc	26'	13'	28	0.24	20	0.21
	60°	247	90° - 120°	290	6%	14'	22 fc	6.5'	8 fc	Delivered Illuminance Rating: (DIR)					
	80°	116	90° - 150°	524	11%	16'	17 fc	7.4'	6 fc	118 FC per W/Sq. Ft. 98 FC per W/Sq. Ft.					
	90°	49	0° - 90°	4052	89%	20'	11 fc	9.2'	4 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	100°	80	90° - 180°	526	11%	24'	8 fc	11.1'	3 fc						
	120°	146	Total	4578	100%	28'	6 fc	12.9'	2 fc						
	140°	63													
	160°	3													
	180°	2													

Delivered Lumens: 4578  
Luminaire Watts: 39  
LER: 117.38

CP at 0° (Nadir): 4331  
CRI: 83

Beam Angle: 50°  
Spacing Ratio: 0.76

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06



# 12" PRISMATIC

## DDH SERIES / PHOTOMETRIC DATA



PRDDH12GV 55L 35K XX PR12 DR12A PC MW

CANDLEPOWER CURVE TEST SP-00456_32	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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 1		RCR 3								
	0°	5512	0° - 10°	502	11%														
	20°	3182	0° - 30°	2880	63%														
	40°	510	0° - 60°	4122	90%	8'	86 fc	3.9'	31 fc	18'	9"	60	0.49	59	0.56				
	60°	127	90° - 120°	135	3%	10'	55 fc	4.8'	20 fc	22'	11'	39	0.32	34	0.32				
	80°	49	90° - 150°	225	5%	12'	38 fc	5.8'	14 fc	26'	13'	29	0.24	22	0.21				
	90°	26	0° - 90°	4333	95%	14'	28 fc	6.8'	10 fc	Delivered Illuminance Rating: (DIR)		123 FC per W/Sq. Ft.		105 FC per W/Sq. Ft.					
	100°	43	90° - 180°	227	5%	16'	22 fc	7.7'	8 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor * Exceeds Spacing Ratio by 4%									
	120°	56	Total	4560	100%	20'	14 fc	9.7'	5 fc										
	140°	27				24'	10 fc	11.6'	3 fc										
	160°	3				28'	7 fc	13.5'	3 fc										
	180°	2																	

Delivered Lumens: 4560  
 Luminaire Watts: 39  
 LER: 116.92

CP at 0° (Nadir): 5512  
 CRI: 83

Beam Angle: 52°  
 Spacing Ratio: 0.69

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
 CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
 50K x 1.06



# 12" ALUMINUM

## DDH SERIES / PHOTOMETRIC DATA



ALDDH12GV 55L 35K XX AL12MWI NL MW

CANDLEPOWER CURVE TEST SP-00456_13	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT															
				Ceiling Height	Fixture Spacing	RCR 1		RCR 3											
	0°	2918	0° - 10°	277	6%	Mounting Height AFF FC at Center on Floor Beam Diameter FC at Beam Edge	Ceiling Height Fixture Spacing FC * W/Sq. Ft. FC * W/Sq. Ft.	RCR 1 FC * W/Sq. Ft.	RCR 3 FC * W/Sq. Ft.										
	20°	2526	0° - 30°	2138	45%					8'	46 fc	6.2'	11 fc	18'	9'	62	0.49	37	0.36
	40°	1116	0° - 60°	4199	88%					10'	29 fc	7.8'	7 fc	22'	11'	41	0.32	34	0.32
	60°	390	90° - 120°	7	0%					12'	20 fc	9.4'	5 fc	26'	13'	27	0.21	22	0.21
	80°	104	90° - 150°	12	0%					14'	15 fc	10.9'	4 fc	Delivered Illuminance Rating: (DIR)					
	90°	8	0° - 90°	4755	100%					16'	11 fc	12.5'	3 fc	127 FC per W/Sq. Ft. 104 FC per W/Sq. Ft.					
	100°	2	90° - 180°	14	0%					20'	7 fc	15.6'	2 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	120°	2	Total	4769	100%					24'	5 fc	18.7'	1 fc						
	140°	3								28'	4 fc	21.9'	1 fc						
	160°	3																	
	180°	2																	

Delivered Lumens: 4769      CP at 0° (Nadir): 2918      Beam Angle: 76°      Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
 Luminaire Watts: 39      LER: 122.28      Spacing Ratio: 1.17      CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
 CRI: 83      50K x 1.06

ALDDH12GV 55L 35K XX AL12MWI DR12A CNFR MW

CANDLEPOWER CURVE TEST SP-00456_8	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT															
				Ceiling Height	Fixture Spacing	RCR 1		RCR 3											
	0°	1586	0° - 10°	162	4%	Mounting Height AFF FC at Center on Floor Beam Diameter FC at Beam Edge	Ceiling Height Fixture Spacing FC * W/Sq. Ft. FC * W/Sq. Ft.	RCR 1 FC * W/Sq. Ft.	RCR 3 FC * W/Sq. Ft.										
	20°	1970	0° - 30°	1585	39%					8'	25 fc	6.9'	5 fc	18'	9'	45	0.42	31	0.36
	40°	1041	0° - 60°	3488	87%					10'	16 fc	8.6'	3 fc	22'	11'	30	0.28	18	0.21
	60°	381	90° - 120°	11	0%					12'	11 fc	10.3'	2 fc	26'	13'	22	0.21	18	0.21
	80°	87	90° - 150°	18	0%					14'	8 fc	12.1'	2 fc	Delivered Illuminance Rating: (DIR)					
	90°	12	0° - 90°	3999	100%					16'	6 fc	13.8'	1 fc	106 FC per W/Sq. Ft. 85 FC per W/Sq. Ft.					
	100°	2	90° - 180°	20	0%					20'	4 fc	17.2'	1 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	120°	3	Total	4019	100%					24'	3 fc	20.7'	1 fc						
	140°	3								28'	2 fc	24.1'	0 fc						
	160°	2																	
	180°	3																	

Delivered Lumens: 4019      CP at 0° (Nadir): 1586      Beam Angle: 82°      Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
 Luminaire Watts: 39      LER: 103.05      Spacing Ratio: 1.40      CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
 CRI: 83      50K x 1.06

ALDDH12GV 55L 35K XX AL12MWI DR12A CN MW

CANDLEPOWER CURVE TEST SP-00456_7	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT															
				Ceiling Height	Fixture Spacing	RCR 1		RCR 3											
	0°	1380	0° - 10°	147	4%	Mounting Height AFF FC at Center on Floor Beam Diameter FC at Beam Edge	Ceiling Height Fixture Spacing FC * W/Sq. Ft. FC * W/Sq. Ft.	RCR 1 FC * W/Sq. Ft.	RCR 3 FC * W/Sq. Ft.										
	20°	2141	0° - 30°	1697	42%					8'	22 fc	6.6'	5 fc	18'	9'	45	0.42	31	0.36
	40°	1003	0° - 60°	3570	88%					10'	14 fc	8.2'	3 fc	22'	11'	30	0.28	18	0.21
	60°	345	90° - 120°	10	0%					12'	10 fc	9.8'	2 fc	26'	13'	23	0.21	18	0.21
	80°	77	90° - 150°	16	0%					14'	7 fc	11.5'	2 fc	Delivered Illuminance Rating: (DIR)					
	90°	9	0° - 90°	4041	100%					16'	5 fc	13.1'	1 fc	108 FC per W/Sq. Ft. 87 FC per W/Sq. Ft.					
	100°	3	90° - 180°	18	0%					20'	3 fc	16.4'	1 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	120°	4	Total	4058	100%					24'	2 fc	19.7'	1 fc						
	140°	3								28'	2 fc	23.0'	0 fc						
	160°	2																	
	180°	2																	

Delivered Lumens: 4058      CP at 0° (Nadir): 1380      Beam Angle: 79°      Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
 Luminaire Watts: 39      LER: 104.05      Spacing Ratio: 1.51      CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
 CRI: 83      50K x 1.06



# 12" ALUMINUM

## DDH SERIES / PHOTOMETRIC DATA



### ALDDH12GV 55L 35K XX AL12MWI DR12A DL MW

CANDLEPOWER CURVE TEST SP-00456_9	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
	0°	0° - 10°	121	3%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 1</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>18'</td> <td>9'</td> <td>40</td> <td>0.42</td> <td>28</td> <td>0.36</td> </tr> <tr> <td>22'</td> <td>11'</td> <td>27</td> <td>0.28</td> <td>16</td> <td>0.21</td> </tr> <tr> <td>26'</td> <td>13'</td> <td>20</td> <td>0.21</td> <td>16</td> <td>0.21</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">96 FC per W/Sq. Ft.</td> <td colspan="2">77 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     3' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 1: Length &amp; Width = Ceiling Ht. - 5.5' x 10.00                      RCR 3: Length &amp; Width = Ceiling Ht. - 5.5' x 3.33                      * Average Footcandles at 2.5' Above Floor                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	18'	9'	40	0.42	28	0.36	22'	11'	27	0.28	16	0.21	26'	13'	20	0.21	16	0.21	Delivered Illuminance Rating: (DIR)		96 FC per W/Sq. Ft.		77 FC per W/Sq. Ft.		3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	Ceiling Height	Fixture Spacing	RCR 1					RCR 3																																					
			FC *	W/Sq. Ft.		FC *	W/Sq. Ft.																																						
	18'	9'	40	0.42		28	0.36																																						
	22'	11'	27	0.28		16	0.21																																						
	26'	13'	20	0.21		16	0.21																																						
	Delivered Illuminance Rating: (DIR)		96 FC per W/Sq. Ft.			77 FC per W/Sq. Ft.																																							
	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor																																												
	0°	0° - 30°	1416	39%																																									
	20°	0° - 60°	3197	89%																																									
	40°	90° - 120°	8	0%																																									
	60°	90° - 150°	14	0%																																									
	80°	0° - 90°	3585	100%																																									
100°	90° - 180°	15	0%																																										
120°	Total	3600	100%																																										
140°																																													
160°																																													
180°																																													

Delivered Lumens: 3600  
Luminaire Watts: 39  
LER: 92.31

CP at 0° (Nadir): 1155  
CRI: 83

Beam Angle: 82°  
Spacing Ratio: 1.58

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

### ALDDH12GV 55L 35K XX AL12MWI DR12A FO MW

CANDLEPOWER CURVE TEST SP-00456_10	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
	0°	0° - 10°	128	4%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 1</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>18'</td> <td>9'</td> <td>46</td> <td>0.49</td> <td>26</td> <td>0.36</td> </tr> <tr> <td>22'</td> <td>11'</td> <td>30</td> <td>0.32</td> <td>23</td> <td>0.32</td> </tr> <tr> <td>26'</td> <td>13'</td> <td>20</td> <td>0.21</td> <td>15</td> <td>0.21</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">94 FC per W/Sq. Ft.</td> <td colspan="2">72 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     3' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 1: Length &amp; Width = Ceiling Ht. - 5.5' x 10.00                      RCR 3: Length &amp; Width = Ceiling Ht. - 5.5' x 3.33                      * Average Footcandles at 2.5' Above Floor                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	18'	9'	46	0.49	26	0.36	22'	11'	30	0.32	23	0.32	26'	13'	20	0.21	15	0.21	Delivered Illuminance Rating: (DIR)		94 FC per W/Sq. Ft.		72 FC per W/Sq. Ft.		3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	Ceiling Height	Fixture Spacing	RCR 1					RCR 3																																					
			FC *	W/Sq. Ft.		FC *	W/Sq. Ft.																																						
	18'	9'	46	0.49		26	0.36																																						
	22'	11'	30	0.32		23	0.32																																						
	26'	13'	20	0.21		15	0.21																																						
	Delivered Illuminance Rating: (DIR)		94 FC per W/Sq. Ft.			72 FC per W/Sq. Ft.																																							
	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor																																												
	0°	0° - 30°	1020	28%																																									
	20°	0° - 60°	2872	79%																																									
	40°	90° - 120°	7	0%																																									
	60°	90° - 150°	13	0%																																									
	80°	0° - 90°	3601	100%																																									
100°	90° - 180°	14	0%																																										
120°	Total	3615	100%																																										
140°																																													
160°																																													
180°																																													

Delivered Lumens: 3615  
Luminaire Watts: 39  
LER: 92.69

CP at 0° (Nadir): 1336  
CRI: 83

Beam Angle: 108°  
Spacing Ratio: 1.21

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

### ALDDH12GV 55L 35K XX AL12MWI DR12A PP MW

CANDLEPOWER CURVE TEST SP-00456_12	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT																																									
	0°	0° - 10°	247	6%	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 1</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>18'</td> <td>9'</td> <td>50</td> <td>0.49</td> <td>30</td> <td>0.36</td> </tr> <tr> <td>22'</td> <td>11'</td> <td>33</td> <td>0.32</td> <td>27</td> <td>0.32</td> </tr> <tr> <td>26'</td> <td>13'</td> <td>25</td> <td>0.24</td> <td>18</td> <td>0.21</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">103 FC per W/Sq. Ft.</td> <td colspan="2">84 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     3' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 1: Length &amp; Width = Ceiling Ht. - 5.5' x 10.00                      RCR 3: Length &amp; Width = Ceiling Ht. - 5.5' x 3.33                      * Average Footcandles at 2.5' Above Floor                 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	18'	9'	50	0.49	30	0.36	22'	11'	33	0.32	27	0.32	26'	13'	25	0.24	18	0.21	Delivered Illuminance Rating: (DIR)		103 FC per W/Sq. Ft.		84 FC per W/Sq. Ft.		3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	Ceiling Height	Fixture Spacing	RCR 1					RCR 3																																					
			FC *	W/Sq. Ft.		FC *	W/Sq. Ft.																																						
	18'	9'	50	0.49		30	0.36																																						
	22'	11'	33	0.32		27	0.32																																						
	26'	13'	25	0.24		18	0.21																																						
	Delivered Illuminance Rating: (DIR)		103 FC per W/Sq. Ft.			84 FC per W/Sq. Ft.																																							
	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor																																												
	0°	0° - 30°	1720	44%																																									
	20°	0° - 60°	3382	87%																																									
	40°	90° - 120°	7	0%																																									
	60°	90° - 150°	13	0%																																									
	80°	0° - 90°	3877	100%																																									
100°	90° - 180°	15	0%																																										
120°	Total	3892	100%																																										
140°																																													
160°																																													
180°																																													

Delivered Lumens: 3892  
Luminaire Watts: 39  
LER: 99.79

CP at 0° (Nadir): 2604  
CRI: 83

Beam Angle: 65°  
Spacing Ratio: 0.94

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06





# 12" ALUMINUM

## DDH SERIES / PHOTOMETRIC DATA



ALDDH12GV 55L 35K XX AL12MWI DR12A PC MW

CANDLEPOWER CURVE TEST SP-00456_11	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY				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 1		RCR 3				
	0°	2539	0° - 10°	241	6%	8'	40 fc	5.7'	11 fc	18'	9'	51	0.49	31	0.36
	20°	2204	0° - 30°	1857	48%	10'	25 fc	7.1'	7 fc	22'	11'	33	0.32	27	0.32
	40°	750	0° - 60°	3456	89%	12'	18 fc	8.5'	5 fc	26'	13'	22	0.21	18	0.21
	60°	342	90° - 120°	6	0%	14'	13 fc	9.9'	4 fc	Delivered Illuminance Rating: (DIR)		104 FC per W/Sq. Ft.		85 FC per W/Sq. Ft.	
	80°	58	90° - 150°	11	0%	16'	10 fc	11.4'	3 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	90°	3	0° - 90°	3867	100%	20'	6 fc	14.2'	2 fc						
	100°	2	90° - 180°	13	0%	24'	4 fc	17.0'	1 fc						
	120°	2	Total	3881	100%	28'	3 fc	19.9'	1 fc						
	140°	3													
	160°	3													
	180°	2													

Delivered Lumens: 3881  
Luminaire Watts: 39  
LER: 99.51

CP at 0° (Nadir): 2539  
CRI: 83

Beam Angle: 71°  
Spacing Ratio: 1.13

Lumen Multiplier: 15L x 0.27, 27L x 0.46, 37L x 0.68  
CCT Multiplier: 27K x 0.97, 30K x 0.99, 40K x 1.03  
50K x 1.06

### 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 FC Ft. per fixture for a specific target FC: <math>\text{Sq. Ft. / 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>\text{W/ Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}</math></li> </ul>

