16" ALUMINUM WIDE BEAM
DDH SERIES

LUMEN MAX
HIGH BAY LUMINAIRES

ALDDHWD16LX

APPLICATION
16" Lumen Max LX series performance pendant for low and mid-bay applications. Wide 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. Posi-lock reflector retention ring will absorb shocks and impacts. 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.

ELECTRONICS
LED system features high brightness white Nichia LEDs. 3-step MacAdam Ellipse binning. Standard CRI: 80+. Higher CRI, R9 and custom LED configurations are available; consult factory. Variety of electronic 120V/277V and dimming drivers. LED module is 2 circuit with 2 drivers for multicircuit option as well as safety.

CONSTRUCTION
Housing constructed of extruded and machined aluminum to resist corrosion. Graphite gasket for optimal thermal management. Die-cast aluminum heat sink. 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.
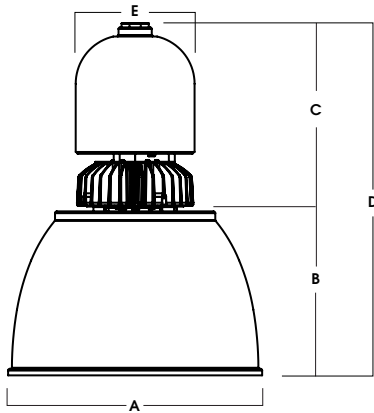
A	B	C	D	E
16.0	10.5	11.5	21.3	7.5
406.4 mm	266.7 mm	292.1 mm	541.0 mm	190.5 mm

Fixture Weight: 10.5 lbs

LUMENS / WATTAGE DATA			
PART NUMBER	SOURCE LUMENS[1]	DELIVERED LUMENS[2]	SYSTEM WATTS	LPW
ALDDHWD16LX65L	6500	5497	54.1	102
ALDDHWD16LX100L	10000	8245	81.06	102
ALDDHWD16LX130L	13000	10496	103.89	101
ALDDHWD16LX140L	14000	11303	111.89	101

SERIES	LUMENS[1]	CCT	DRIVER / DIMMING[3]	OPTIONS[4]	MOUNTING[5]	REFLECTOR		DIFFUSER OPTIONS		FINISH[10]
ALDDHWD16LX	**65L** 6500 Lm **100L** 10000 Lm **130L** 13000 Lm **140L** 14000 Lm	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**EX** Electronic Driver, 120V/277V **DS10X** 10%, 0-10V, 120V/277V **DO10X** 1%, 0-10V, 120V/277V **DO103** 1%, 0-10V, 347V	**FS** Fusing **2CIR** 2 Circuit **SC1** Safety Cable **SC2** Safety Cable Reflector to door	**HM**[6] Hang Straight **AT**[6] Hang Straight All Thread **PM**[6] Rigid Pendant **CD**[6] Cord / Cable Mount **HC**[6] Hook & Cord **NM2**[7] ½" NPT Hub **NM3**[7] ¾" NPT Hub	INSIDE FINISH **AL16WD/SGI**[8] 16" Wide Aluminum Reflector/ Soft Glow	OUTSIDE FINISH **SG**[8] Soft-Glow **MW** Matte White **MB** Matte Black **PT** Platinum Silver **CC** Custom Color See Page 5 for Full Range of Color Options (83-90081)	DOOR **DR16D**[9] 16" Spun Door	LENS **CNFR** Conical Frosted Lens **CN** Conical Lens **DL** Drop Lens **FO** White Optical Acrylic **PP** Prismatic Polycarbonate **PC** Clear Polycarbonate **WAG16** 16" Wire Guard	**MW**[11] Matte White **MB**[11] Matte Black **PT**[11] Platinum Silver **CC** Custom Color See Page 5 for Full Range of Color Options (83-90081)
					EM. BATTERY OPTIONS **EMCR** 10W Canopy Mounted EM **EMRM** 7W Remote EM **EMEN** 7W Remote with Enclosure					

EXAMPLE: ALDDHWD16LX100L35KEX/HM36/AL16WD/SGI/SGDR16DFO/MW

NOTES:
1 Nominal Source Lumens at 35K **2** Nominal Delivered Lumens at 35K with AL16WD **3** Contact Factory for Additional Options **4** See Product Options Page For Details **5** See Mounting Page for Details on Components and Finishes **6** Specify Length in Inches: See Mounting Page for Available Lengths **7** Mounting Supplied by Others **8** Standard Color **9** Same Finish as Outside of Housing **10** See Color Page for More Options / Consult Factory for Special Finishes **11** Standard Finishes

SPECTRUM LIGHTING INC.

PROJECT:
TYPE:

ETL INTERTEK LISTED • 5 YEAR WARRANTY • MADE IN THE USA

Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

WWW.SPECLIGHT.COM • 994 JEFFERSON STREET, FALL RIVER, MA 02721 • 508.678.2303 FAX 508.678.2260   83-20043_RC

16" ALUMINUM WIDE BEAM

DDH SERIES / FIXTURE OPTIONS

LUMEN MAX
HIGH BAY LUMINAIRES

STANDARD FINISHES

MW
MATTE WHITE

MB
MATTE BLACK

PT
PLATINUM SILVER

MOUNTING TYPES
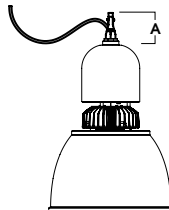
HM / AT / PM
HANG STRAIGHT / ALL THREAD / PENDANT
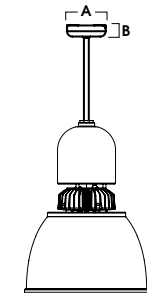
A	B
5.0	1.5
127.0 mm	38.1 mm

CD
CORD / CABLE MOUNT
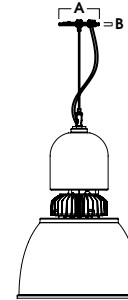
A	B
5.0	.25
127.0 mm	6.35 mm

HC
HOOK CORD
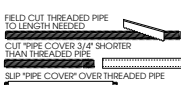
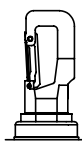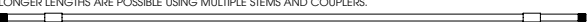| A |
|---|
| 4.0 |
| 101.6 mm |

NM
NO MOUNT
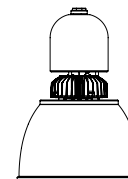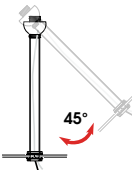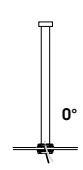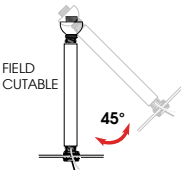
MOUNTING & ACCESSORIES

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 LUMEN MAX SPECIFICATION FOR PENDANT MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.
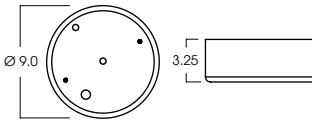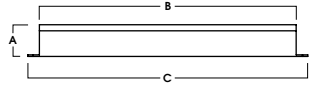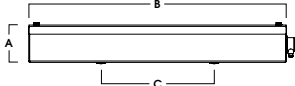
LUMEN MAX
HIGH BAY LUMINAIRES

MOUNTING TYPES

HM*
HANG STRAIGHT
45° SWIVEL 5/8" OD STEM - 3/8" IP

45°

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)

PM*
RIDGID PENDANT MOUNT
RIGID 5/8" OD STEM - 3/8" IP

0°

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)

AT**
HANG STRAIGHT ALL THREAD
45° SWIVEL 5/8" OD STEM - 1/4" IP

FIELD
CUTABLE

45°

ORDER: **AT** (Length)
SPECIFY LENGTH:

AT12 - 12"
AT24 - 24"
AT36 - 36"

FIELD CUT THREADED PIPE
TO LENGTH NEEDED

CUT "PIPE COVER 3/4" SHORTER
THAN THREADED PIPE

SLIP "PIPE COVER" OVER THREADED PIPE

CD
CORD / CABLE MOUNT
SJ CORD WITH 1/16 SS CABLE

**ADJUST
AND
LOCKS**

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**

*MAXIMUM ONE PIECE STEM LENGTH IS 72". **MAXIMUM ONE PIECE STEM LENGTH IS 36".
LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

EMERGENCY BATTERY OPTIONS

EMCR - LARGE DRIVER CANOPY FOR
10W EMERGENCY BATTERY

Ø 9.0   3.25

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

ADDITIONS

FS - FUSING

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

LSP10 - SM - SURGE PROTECTOR

Surge protector absorbs transient
electrical spikes and protects
fixtures and electronics 120/277v.
Re-sets after surge. Factory Installed.

surge
protector

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

1/16" Stainless steel cable holds
door to fixture

16" ALUMINUM WIDE BEAM

DDH SERIES / PHOTOMETRIC DATA

ALDDH16LEDLX-140L35K-EX-AL16-SG-WD

CANDLEPOWER CURVE

Delivered Lumens: 11,289
Luminaire Watts: 111.89
LER: 100.89

INTENSITY

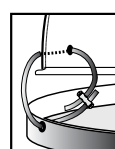|	
0.00°	11,258
5.00°	11,288
10.00°	11,154
15.00°	10,441
20.00°	9,079
30.00°	6,629
40.00°	2,280
50.00°	376
60.00°	92
70.00°	11
80.00°	0
90.00°	0

CP at 0deg (Nadir): 11,258
CRI: 85+

ZONAL LUMENS

0° - 10°	1,091	10%
0° - 20°	3,993	35%
0° - 30°	7,594	67%
0° - 40°	10,415	92%
0° - 60°	11,255	100%
0° - 80°	11,289	100%
0° - 90°	11,289	100%
Total	11,289	100%

Beam Angle: 65.85
Spacing Ratio: 0.94

SINGLE UNIT: PERFORMANCE
INITIAL FOOTCANDLES
BASED ON IES BEAM ANGLE

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
10.0 '	113 fc	12.9 '	55 fc
12.0 '	78 fc	15.5 '	38 fc
14.0 '	57 fc	18.1 '	28 fc
16.0 '	44 fc	20.7 '	22 fc
20.0 '	28 fc	25.9 '	14 fc
24.0 '	20 fc	31.1 '	10 fc
28.0 '	14 fc	36.2 '	7 fc
32.0 '	11 fc	41.4 '	5 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.
22'	16' *	47	0.47	26	0.30
26'	18' **	30	0.29	37	0.42
32'	20' ***	25	0.25	22	0.25
Delivered Illuminance Rating: (DIR)		101 FC per W/Sq. Ft.		88 FC per W/Sq. Ft.	

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 10%
** Exceeds spacing criteria by -2%
*** Exceeds spacing criteria by -17%

Lamp Multiplier: 65L x 0.47, 100L x 0.706, 130L x 0.93
CCT Multiplier: 40K x 1.03, 30K x 0.98, 27K x 0.96

COLOR OPTIONS - POWDER COAT PAINT FINISHES

NOTE: NO PRINTED IMAGE CAN EQUAL THE EXACT COLOR OF FINISH ON METAL.
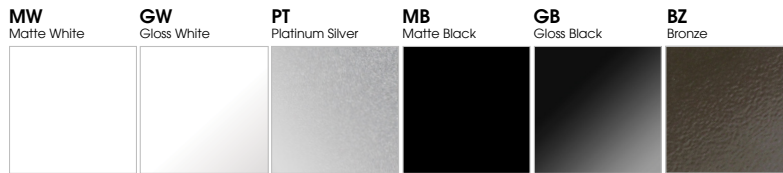SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION.

SPECTRUM
POWDER COAT COLORS

STANDARD CORD / STEM / CANOPY FINISHES

FIXTURE COLOR	STANDARD CORD COLOR	STANDARD CANOPY / STEM COLOR
Matte White, Textured White	Matte White	Matte White
Gloss White	Matte White	Gloss White
Matte Black, Gloss Black, Textured Black	Matte Black	Matte Black
All Others	Matte Black	Same Color as Fixture
Custom Color	Contact Factory	Contact Factory

PAINT TIMES

TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	$	🕐
Tier 2 - Typical Finishes	$$	🕐🕐
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

TIER 1 - STANDARD FINISHES

MW Matte White
GW Gloss White
PT Platinum Silver
MB Matte Black
GB Gloss Black
BZ Bronze

TIER 2 - TYPICAL FINISHES

TW Textured White
TB Textured Black
MT* Textured Silver
OB* Oil Rubbed Bronze
SN Sun Gold
CO Copper Metallic
BR Brecchia
GH Graphite
CH Charcoal
AL Almond
VE Verde Green

BL Blue Streak
RD Red Baron
OR Orange
CM Camel
PL Purple
PG Pub Green
TQ Turquoise
SF Sea Foam
PK Pink
AY Aero Yellow
EG Evergreen

LG Lime Green
LB Light Blue
BY Burgundy
AK Anodic Black
AM Anodic Malachite
AZ Anodic Bronze
AS Anodic Sapphire
AN Anodic Natural
AC Anodic Champagne

CUSTOM COLOR FINISHES

CONTACT FACTORY

CC Custom Color

CC

*UNAVAILABLE FOR WET LOCATION

SPECTRUM LIGHTING INC.

83-90081_RA