16" ALUMINUM MEDIUM BEAM
DDH SERIES

LUMEN MAX
HIGH BAY LUMINAIRES

ALDDHMD16LX

APPLICATION
16" Lumen Max LX series performance pendant for low and mid-bay applications. Medium 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.
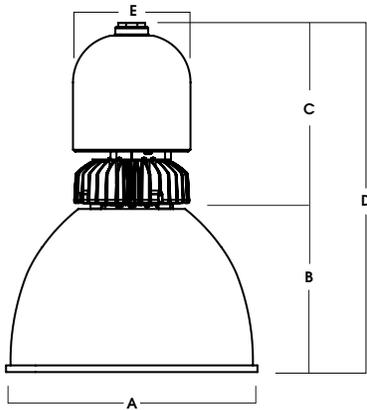
A	B	C	D	E
16.0	10.5	11.5	21.4	7.5
406.4 mm	266.7 mm	292.1 mm	543.6 mm	190.5 mm

Fixture Weight: 10.5 lbs

LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS[1]	DELIVERED LUMENS[2]	SYSTEM WATTS	LPW
ALDDHMD16LX65L	6500	5497	54.1	102
ALDDHMD16LX100L	10000	8245	81.06	102
ALDDHMD16LX130L	13000	10496	103.89	101
ALDDHMD16LX140L	14000	11303	111.89	101

SERIES	LUMENS[1]		CCT		DRIVER / DIMMING[3]		OPTIONS[4]		MOUNTING[5]		REFLECTOR			DIFFUSER OPTIONS			FINISH[10]	
ALDDHMD16LX	65L	6500 Lm	27K	2700K	EX	Electronic Driver, 120V/277V	FS	Fusing	HM[6]	Hang Straight	INSIDE FINISH		OUTSIDE FINISH	DOOR		LENS		MW[11]	Matte White
	100L	10000 Lm	30K	3000K	DS10X	10%, 0-10V, 120V/277V	2CIR	2 Circuit	AT[6]	Hang Straight All Thread	AL16MD/SGI[8]	16" Medium Aluminum Reflector/ Soft Glow	SG[8] Soft-Glow	DR16D[9]	16" Spun Door	CNFR	Conical Frosted Lens	MB[11]	Matte Black
	130L	13000 Lm	35K	3500K	DO10X	1%, 0-10V, 120V/277V	SC1	Safety Cable	PM[6]	Rigid Pendant			MW Matte White			CN	Conical Lens	PT[11]	Platinum Silver
	140L	14000 Lm	40K	4000K	DO103	1%, 0-10V, 347V	SC2	Safety Cable Reflector to door	CD[6]	Cord / Cable Mount			MB Matte Black			DL	Drop Lens	CC	Custom Color
									HC[6]	Hook & Cord			PT Platinum Silver			FO	White Optical Acrylic		
									NM2[7]	½" NPT Hub			CC Custom Color			PP	Prismatic Polycarbonate		See Page 5 for Full Range of Color Options (83-90081)
									NM3[7]	¾" NPT Hub			See Page 5 for Full Range of Color Options (83-90081)			PC	Clear Polycarbonate		
									EM. BATTERY OPTIONS							WAG16	16" Wire Guard		
									EMCR	10W Canopy Mounted EM									
									EMRM	7W Remote EM									
									EMEN	7W Remote with Enclosure									

EXAMPLE: ALDDHMD16LX100L35KEX/HM36/AL16MD/SGI/SGDR16DFO/MW

NOTES:
1 Nominal Source Lumens at 35K 2 Nominal Delivered Lumens at 35K with AL16MD 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.

16" ALUMINUM MEDIUM BEAM

DDH SERIES / FIXTURE OPTIONS

STANDARD FINISHES

MW
MATTE WHITE

MB
MATTE BLACK

PT
PLATINUM SILVER

MOUNTING TYPES

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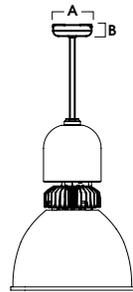
A	B
5.0	1.5
127.0 mm	38.1 mm

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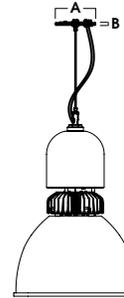
A	B
5.0	.25
127.0 mm	6.35 mm

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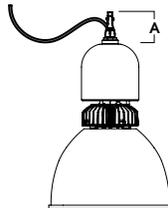
| A |
|---|
| 4.0 |
| 101.6 mm |

NM
NO MOUNT
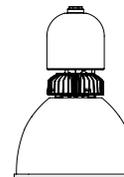
MOUNTING & ACCESSORIES

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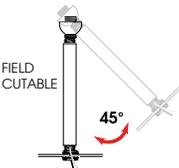
ORDER: **AT** (Length)
SPECIFY LENGTH:

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
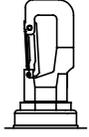
ORDER: **HC**

*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
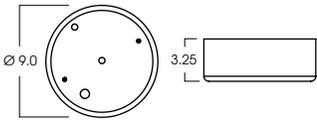
REMOTE EMERGENCY BATTERY OPTIONS

EMRM* - 7W REMOTE EMERGENCY BATTERY (50' MAX)
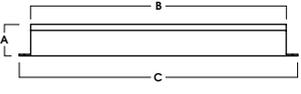
A	B	C
1.3	12.6	13.0

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
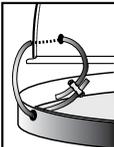
16" ALUMINUM MEDIUM BEAM

DDH SERIES / PHOTOMETRIC DATA

ALDDH16LEDLX-140L-35K-EX-AL16-SG-MD

CANDLEPOWER CURVE

Delivered Lumens: 10,683
Luminaire Watts: 111.89
LER: 95.48

INTENSITY

0.00°	
0.00°	15,345
5.00°	15,247
10.00°	14,415
15.00°	12,586
20.00°	9,507
30.00°	5,330
40.00°	1,473
50.00°	145
60.00°	37
70.00°	0
80.00°	0
90.00°	0

CP at 0deg (Nadir): 15,345
CRI: 85+

ZONAL LUMENS

|		
0° - 10°	1,448	14%
0° - 20°	4,849	45%
0° - 30°	8,062	75%
0° - 40°	10,212	96%
0° - 60°	10,668	100%
0° - 80°	10,683	100%
0° - 90°	10,683	100%
Total	10,683	100%

Beam Angle: 46.66
Spacing Ratio: 0.74

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 '	153 fc	8.6 '	77 fc
12.0 '	107 fc	10.3 '	53 fc
14.0 '	78 fc	12.0 '	39 fc
16.0 '	60 fc	13.7 '	30 fc
20.0 '	38 fc	17.2 '	19 fc
24.0 '	27 fc	20.6 '	13 fc
28.0 '	20 fc	24.0 '	10 fc
32.0 '	15 fc	27.5 '	7 fc

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

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
22'	10' [*]	95	1.05	85	1.05
26'	12' [**]	60	0.66	53	0.66
32'	14' [***]	51	0.56	31	0.39
Delivered Illuminance Rating: (DIR)		91 FC per W/Sq. Ft.		81 FC per W/Sq. Ft.	

2' Suspension Length
Square rooms used for multiple units:
- RCR 3: Length & Width = Ceiling Ht. -6.5' x 3.33
- RCR 5: Length & Width = Ceiling Ht. - 6.5' x 2.00
[+] Average Footcandles at 2.5' Above Floor
[*] Exceeds spacing criteria by -13%
[**] Exceeds spacing criteria by -17%
[***] Exceeds spacing criteria by -26%

Lamp Multiplier: 65L x 0.471, 100L x 0.706, 130L x 0.471
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	GW	PT	MB	GB	BZ
Matte White	Gloss White	Platinum Silver	Matte Black	Gloss Black	Bronze

TIER 2 - TYPICAL FINISHES

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

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

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

CUSTOM COLOR FINISHES

CONTACT FACTORY

CC
Custom Color

CC

*UNAVAILABLE FOR WET LOCATION