24" PRISMATIC DISC
DISCO SERIES

LUMEN MAX
HIGH BAY LUMINAIRES

PR2405LX

APPLICATION
24" LX Series high bay for wide area lighting in retail, gyms, and open office areas.

FEATURES
PR2405LX single-stage optical system features smooth wide distribution. 80 CRI minimum. Consult factory for high CRI or special applications. LED module and driver designed for ease of maintenance and replacement. Emergency battery backup option. See PR1605 and PR3005 for 16" and 30" options.

FINISH
Multi-stage polyester powder-coat process applied by our dedicated paint lines. All exposed materials are chromate pretreated to resist corrosion.

ELECTRONICS
LED module features high brightness white Nichia LEDs. 3-step MacAdam Ellipse binning and CRI 80 minimum. Higher CRI, R9 and custom LED configurations are available; consult factory. Dual voltage 120V/277V drivers standard. LED module is 2 circuit with 2 drivers for multicircuit option as well as safety.

CONSTRUCTION
Housing constructed of spun and formed aluminum to resist corrosion. Die-cast aluminum heat sink. Graphite gasket for optimal thermal management. Refractor made of cast UV stabilized acrylic.

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.
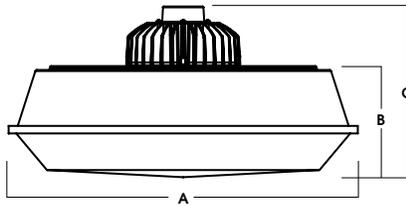
A	B	C
22.5 571.5 mm	7.2 181.8 mm	11.0 279.3 mm

LUMENS / WATTAGE DATA				
PART NUMBER	**SOURCE LUMENS[1]**	**DELIVERED LUMENS[2]**	**SYSTEM WATTS**	**LPW**
PR2405LX65L	6500	5201	51	103
PR2405LX100L	10000	7911	81	98
PR2405LX130L	13000	10402	101	103
PR2405LX140L	14000	11237	112	100

SERIES	LUMENS[1]		CCT		DRIVER / DIMMING[3]		OPTIONS[4]		MOUNTING[5]		FINISH[8]	
PR2405LX	**65L**	6500 Lm	**27K**	2700K	**EX**	Electronic Driver, 120V/277V	**FS**	Fusing	**CP113**[6]	Driver Compartment with Leads	**MW**[9]	Matte White
	100L	10000 Lm	**30K**	3000K	**DS10X**	10% 0-10V, 120V/277V	**WG24**	24" Wire Guard	**HM**[7]	Hang-Straight	**MB**[9]	Matte Black
	130L	13000 Lm	**35K**	3500K	**DO10X**	1% 0-10V, 120V/277V	**SC1**	Safety Cable	**AT**[7]	Hang Straight All Thread	**PT**[9]	Platinum Silver
	140L	14000 Lm	**40K**	4000K	**DO103**	1% 0-10V, 347V			**PM**[7]	Rigid Pendant Mount	**CC**	Custom Color
									CD3X[7]	3 Cable Mount with Cord		
								EMERGENCY BATTERY OPTIONS		See Page 5 for Full Range of Color Options (83-90081)	
								EMRM	7W Remote EM		
								EMEN	7W Remote with Enclosure		

EXAMPLE: PR2405LX130L35KEX/CP113PM36/MW

NOTES:
1 Nominal Source Lumens at 35K **2** Nominal Delivered Lumens 35K at 80 CRI **3** Contact Factory for Additional Options **4** See Product Options Page for Details **5** See Mounting Page for Details on Components and Finishes
6 CP113 Required **7** Specify Length in Inches: See Mounting Page for Available Lengths **8** See Color Page for More Options / Consult Factory for Special Finishes **9** Standard Finishes

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PROJECT:

QUANTITY: TYPE:

ILLUMINATING WHAT'S POSSIBLE.

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. 83-20060_RF

24" PRISMATIC DISC

DISCO SERIES / FIXTURE OPTIONS

STANDARD FINISHES

MW
MATTE WHITE

MB
MATTE BLACK

PT
PLATINUM SILVER

MOUNTING TYPES

HM / AT / PM
HANG STRAIGHT / ALL THREAD / PENDANT
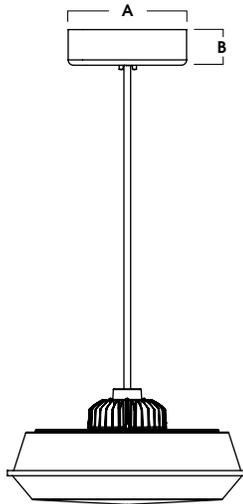
A	B
11.1	3.3
281.9 mm	84.8 mm

CD3X
3X CORD / CABLE MOUNT
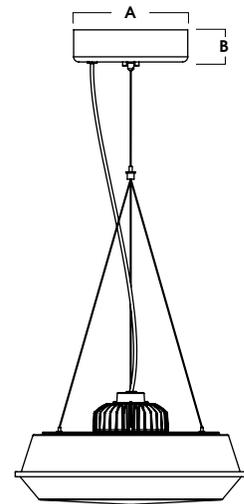
A	B
11.1	3.3
281.9 mm	84.8 mm

ACCESSORIES

WG 24
WIRE GUARD
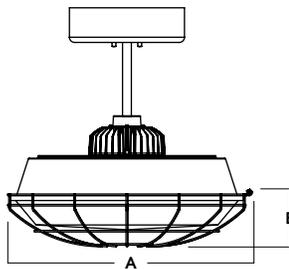
A	B
23.2	5.5
589.3 mm	139.7 mm

Spectrum Lighting

24" PRISMATIC DISC

DISCO SERIES / PHOTOMETRIC DATA

PR2405LX140L35KEX

CANDLEPOWER CURVE

Delivered Lumens: 11,264
Luminaire Watts: 111.89
LER: 100.67

INTENSITY

0.00°	
0.00°	2,349
5.00°	2,414
10.00°	2,652
15.00°	2,992
20.00°	3,346
30.00°	3,978
40.00°	3,999
50.00°	2,716
60.00°	1,102
70.00°	392
80.00°	197
90.00°	101

CP at 0deg (Nadir): 2,349
CRI: 80

ZONAL LUMENS

0° - 10°	287	3%
0° - 20°	1,154	10%
0° - 30°	2,868	25%
0° - 40°	5,410	48%
0° - 60°	9,681	86%
0° - 80°	10,671	95%
0° - 90°	10,842	96%
Total	11,264	100%

Beam Angle: 107.49
Spacing Ratio: 2.04

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 '	23 fc	27.2 '	8 fc
12.0 '	16 fc	32.7 '	6 fc
14.0 '	12 fc	38.1 '	4 fc
16.0 '	9 fc	43.6 '	3 fc
20.0 '	6 fc	54.5 '	2 fc
24.0 '	4 fc	65.4 '	1 fc
28.0 '	3 fc	76.3 '	1 fc
32.0 '	2 fc	87.2 '	1 fc

Lamp Multiplier: 65L x 0.405, 100L x 0.616, 130L x 0.81
CCT Multiplier: 40K x 1.03, 30K x 0.979, 27K x 0.959

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'	24' [*]	15	0.17	5	0.07
26'	28' [**]	9	0.11	13	0.19
32'	32' [***]	10	0.11	8	0.11
Delivered Illuminance Rating: (DIR)		90 FC per W/Sq. Ft.		71 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 -24%
[**] Exceeds spacing criteria by -30%
[***] Exceeds spacing criteria by -38%

Spectrum Lighting

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.

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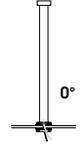
ORDER: **PM** (Length)
SPECIFY LENGTH:

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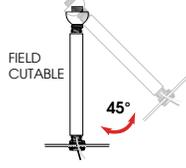
ORDER: **AT** (Length)
SPECIFY LENGTH:

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
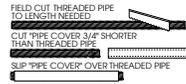
CD3X
CORD / CABLE MOUNT
SJ CORD WITH 1/16 SS CABLE

ADJUST AND LOCKS
24"
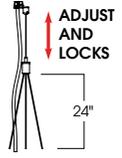
ORDER: **CDX3** (Length)
SPECIFY LENGTH:

CD3X36 - 36"
CD3X72 - 72"
CD3X144 - 144"

CDLC3X(XX)
Custom Length
(Specify in Inches)

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

CEILING MOUNT CANOPY

CP113 - DRIVER COMPARTMENT WITH LEADS
(REQUIRED)

Ø 11.1   3.1
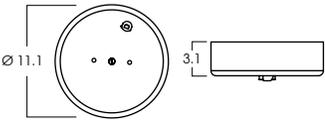
REMOTE EMERGENCY BATTERY OPTIONS

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

B
A
C
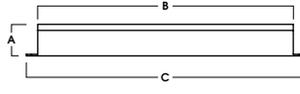
A	B	C
1.3	12.6	13.0

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

B
A
C

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.

Spectrum Lighting

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.

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