PAL™ ARCHITECTURAL

AR300 SERIES

Qty: | Type:

Project Name:

Catalog Number: - - - - - - -0- - - - - - - - -

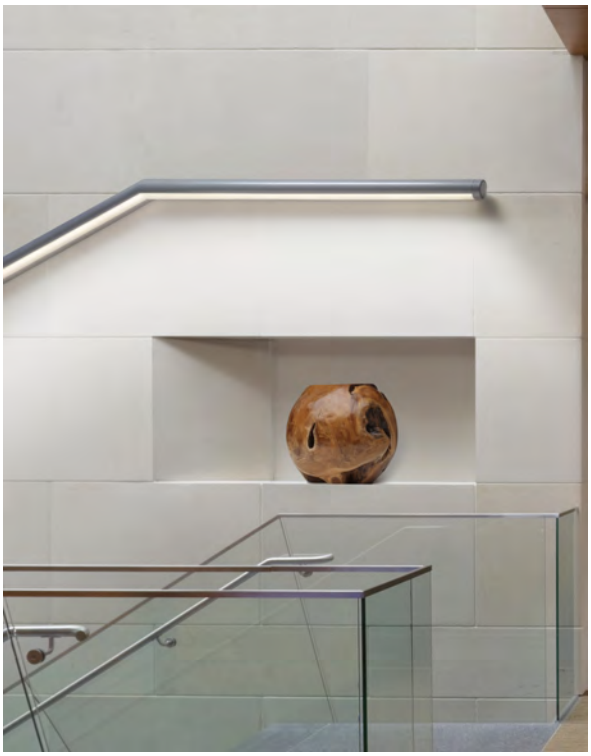
AR300-Direct Shown
(With Sculpted End Cap)

The compact AR300 Series combines a timeless approach to lighting with fresh ideas that incorporate advanced style and function.

Available with either 80 or 90 CRI LED light engines, the highly efficient AR300 Series also offers efficacies as high as 140 Lms/Watt. AR300 can be suspended, ceiling, or wall mounted, with multiple distribution options that provide design adaptability for your space.

AR300 can be mounted individually or in continuous rows, and includes lit connectors for virtually unlimited pattern options. With its stylish housing, complemented by either flat or graceful sculpted end caps, the AR300 brings a fresh appearance to a classic shape.

SPECIFICATIONS



Housing

Constructed of one-piece .070" thick extruded aluminum. Die-cast aluminum end caps are secured with no visible fasteners. Standard lengths are 2', 3', 4', 6', and 8'. Provisions may be made for patterns and continuous rows of any length.

End Caps

- (FE) Flat End - Die-cast aluminum finished to match fixture housing. Secured with no visible fasteners.
- (SE) Sculpted End - Die-cast aluminum finished to match fixture housing. Secured with no visible fasteners.

Finish

Standard & premium finishes are baked powder coat electrostatically applied (2.0 mil minimum thickness.)

Indirect Optical Controls

- (LOH) LED-optimized high transmittance extruded snap-in acrylic lens - Standard Distribution.
- (WSCL) Wide-Spread Optic and Clear Co-Extruded snap-in lens - Wide-Spread Distribution.

Direct Optical Controls

(LOH) LED-optimized high transmittance extruded snap-in acrylic lens - Standard Distribution.

Reflector/Heat Sink (Indirect & Direct)

.040" thick die-formed aluminum reflector finished with a high reflectance white enamel.

Driver (Standard)

Power supply is UL/CUL recognized, 0-10V dimming available, 120 thru 277V universal voltage.

Driver (Tunable White)

EldoLED power supply is UL recognized, and is available for DALI, 0-10V or DMX protocols.

Light Engines, Color Temperatures and CRI

LED light sources are available for the following Co-ordinated Color Temperatures (CCT):

Standard: 2700K, 3000K, 3500K, 4000K, & 5000K

Tunable White: Variable CCT range from 2700K thru 6500K.

Color Rendering Index (CRI): Standard: 80
Optional: 90

See table below for standard light outputs, and contact factory for available custom outputs.

Warranty

10-year limited warranty. No other warranty is expressed or implied. Complete warranty terms can be accessed by visiting:
https://pal-lighting.com/company/warranty

Revit Files

Revit model (BIM) files for the AR300 Series are available by visiting the PAL website at:
https://pal-lighting.com/product-category/by-series/ar300

or click here for all AR300 series Revit files.

Certifications

Fixtures are ETL listed for use in 'Dry or Damp Applications'. Fixtures conform to UL Standard #1598 and to CAN/CSA #C22.2NO.250.0

AR300 - Fixture Performances at a Glance

Lumen Outputs Available	Standard High Output					Standard Medium Output				
Fixture / Orientation / Mounting	AR300-Direct (Susp, Clg, Wall)	AR300-Indirect (Suspended)	AR300-Ind./Direct (Suspended)	AR300-Ind.-Asymm. (Wall)	AR300-IASY/Direct (Wall)	AR300-Direct (Susp, Clg, Wall)	AR300-Indirect (Suspended)	AR300-Ind./Direct (Suspended)	AR300-Ind.-Asymm. (Wall)	AR300-IASY/Direct (Wall)
Optical Control	LOH	LOH	LOH / LOH	LOH	LOH / LOH	LOH	LOH	LOH / LOH	LOH	LOH / LOH
Delivered Lumens/Foot - Standard	920	920	1921	920	1694	626	651	1694	586	1168
Input Watts/Foot - Standard	7	7	15	7	14	5	5	9	5	9
Lumens/Watt - (Efficacy) - Standard	132	136	129	113	125	135	140	140	115	128
Custom Lumen Outputs Available										
Lumens/Ft - Min. thru Max. Available*	300 - 1500	300 - 1500	600 - 3000	300 - 1500	600 - 3000	300 - 1500	300 - 1500	600 - 3000	300 - 1500	600 - 3000

Notes:
- Data listed above is based on using 4000K CCT and 80 CRI LED modules.
- *PAL uses fully programmable drivers. Custom outputs (CO) are available. Contact *specs@pallighting.com* for more information.
- All values are based on calculated LM-79 photometric reports.

MADE IN AMERICA | 10 Year Limited Warranty | TW Tunable White Available | RGBW Available | DLC LISTED | Intertek | CASAMBI | eldoLED your product | our drive

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AR300 SERIES
SUSPENDED, CEILING or WALL MOUNT

ORDERING GUIDE

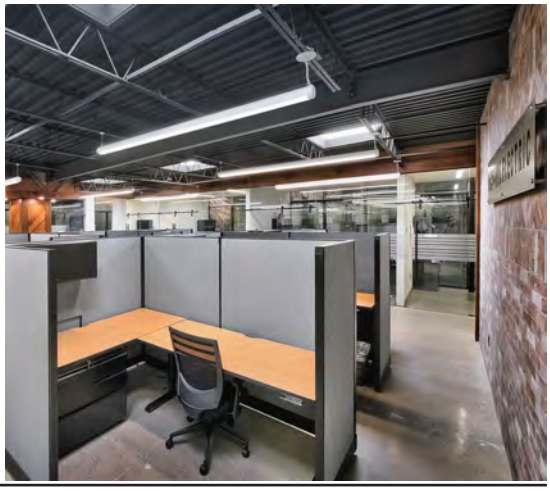
Series		End Caps		Outputs - Indirect		Outputs - Direct		Color Temperature (CCT)		Color Rendering	
AR300-D	AR300 Series Direct	FE	Flat End	HO	High Output	HO	High Output	K27	2700 Kelvin	80	80 CRI
AR300-I	AR300 Series Indirect	SE	Sculpted End	MO	Medium Output	MO	Medium Output	K30	3000 Kelvin	90	90 CRI
AR300-I/D	AR300 Series Indirect/Direct			*See chart on page 1 for standard outputs in Lms/Ft.		*See chart on page 1 for standard outputs in Lms/Ft.		K35	3500 Kelvin		
AR300-IASY (Wall Mount)	AR300 Series Indirect-Asymm.			CO ____ **Custom Output		CO ____ **Custom Output		K40	4000 Kelvin		
AR300-IASY/D (Wall Mount)	AR300 Series Indirect-Asymm/ Direct			**Enter requested Lumens/Ft		**Enter requested Lumens/Ft		K50	5000 Kelvin		
								TW	2700K thru 6500K (Tunable White)		

Fixture Lengths & Corners		Mounting		Ind. Optical Control		Direct Optical Control		Finishes		Voltage	
2'	2 Ft	CN	Fully Adjust. Cable - Non T-Bar - (36" Std.)	LOH	LED-Optimized High Transmittance Lens	LOH	LED-Optimized High Transmittance Lens	F01M	Matte White (Standard)	120	120V
3'	3 Ft	CT	Fully Adjust. Cable - 15/16" T-Bar - (36" Std.)	WSCL	Wide-Spread Optic & Clear Snap-in Lens			FXXX	Premium Colors: (F01G thru F22)	277	277V
4'	4 Ft	J	Ceiling Mount					FCC	Custom Color Match - Provide RAL Color# ____	UNV	Universal Voltage (120V thru 277V)
6'	6 Ft	W	Wall Mount							347	347V
8'	8 Ft										
XX' : For continuous or custom row lengths, specify fixtures in increments the nearest foot. Example: 13'											
L90D	90 Deg. Lit Corner - Direct										
L90I	90 Deg. Lit Corner - Indirect										
L90I/D	90 Deg. Lit Corner - Indirect/Direct										

Drivers - Dimming [2,4]		Drivers - Tunable White [2,4]		Sensor Options		Emergency Options		Control Systems [9]	
DIM0	Dimming 100% to 0%	DALI	DALI protocol driver - (TW) [7] EldoLED DUALdrive	OCC	Occupancy/Motion Sensor [8] (Integral Mount)	NLCKT	Night-Light Circuit (Common Neutral)	CS	CASAMBI Blue-Tooth Wireless System
DIM1	Dimming 100% to 1%	0-10V	0-10V protocol driver - (TW) [7] EldoLED DUALdrive	DS	Daylight/Photocell Sensor [8] (Integral Mount)	EMCKT	Emergency Circuit (Sep. Hot & Neutral)	nLIGHT	nLight Enabled
DIM5	Dimming 100% to 5%					EBPHST	Emergency Battery Pack - 10 Watt [5] Self-Testing. (Integral Mount)	nLAIR	nLight Air (Wireless Enabled)
DIM10	Dimming 100% to 10%					GTD	Generator Transfer Device (Integral Mount)		
SD	Step-Dimming System								

Notes:

1. All fixtures are factory pre-wired for a single circuit. Provisions for multiple switching/circuiting is optional.
2. Unless otherwise requested, all fixtures contain integral-mount "power-on-board" drivers.
3. All fixtures intended for continuous rows are provided with factory installed quick-connect wiring.
4. Standard power supply (driver) is UL/CUL recognized, and is available w/0-10V dimming capability & 120 - 277 universal voltage.
5. Standard emergency battery pack is a 10 Watt constant power, self-testing, UL 924 listed pack from Iota Engineering - providing 1000 lumens of light for approximately 90 minutes. Battery packs are integral mounted unless otherwise notified. *Note: Remote mounted battery packs are not wet location listed.
6. Custom length fixtures and fixtures rows may require a longer lead time. Contact *specs@pallighting.com* for more information.
7. Tunable White power supply by EldoLED is UL recognized, and is compatible with DALI, DMX, and 0-10V protocols.
8. Unless otherwise specified, PAL routinely uses the following integral-mount sensors:
   A. nLight AIR #rES7 sensor by nLight/Acuity Brands
   B. Vertex sensor by SensorSwitch/Acuity Brands
   C. SensiLUM sensor by Encelium/LeGrand
   D. FS-205 and FD-301 sensors by WattStopper/Legrand
   Sensors listed above are either occupancy/motion type, daylight/photocell type, or are a combination of the two.
9. Other control systems are available. Questions? Contact *specs@pallighting.com* for more information.



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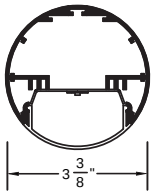
AR300 SERIES
SUSPENDED AND WALL MOUNT

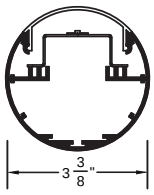
Standard Fixture Lengths and Mounting Centers

Suspended Mount Configurations

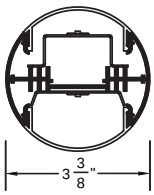
For installation instructions, visit:
AR300-Suspended Mount Instructions - Click here



SUSPENDED MOUNT
DIRECT



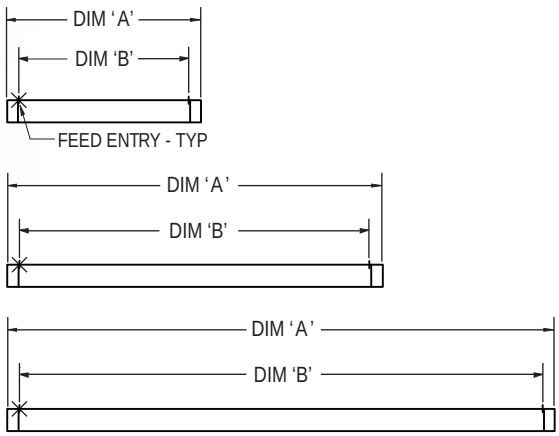
SUSPENDED MOUNT
INDIRECT



SUSPENDED MOUNT
INDIRECT/DIRECT

FLAT END CAP FIXTURES - (FE)

SCULPTED END CAP FIXTURES - (SE)



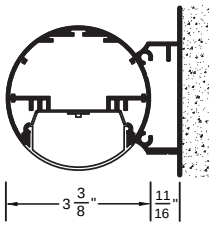
OVERALL FIXTURE LENGTH DIM 'A'	MOUNTING CENTERS DIM 'B'
51 "	48 "
99 "	96 "
*147 "	*144 "

OVERALL FIXTURE LENGTH DIM 'A'	MOUNTING CENTERS DIM 'B'
54 - 11/16 "	48 "
102 - 11/16 "	96 "
*150 - 11/16 "	*144 "

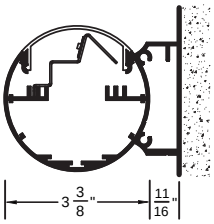
*NOTE: DIRECT-ONLY & INDIRECT-ONLY INDIVIDUAL FIXTURES ARE AVAILABLE IN LENGTHS UP TO 12' LONG.
INDIRECT/DIRECT INDIVIDUAL FIXTURES ARE AVAILABLE IN LENGTHS UP TO 8' LONG.

Wall Mount Configurations

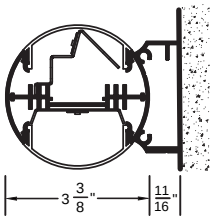
For installation instructions, visit: *AR300-Wall Mount Instructions - Click here*



WALL MOUNT
DIRECT

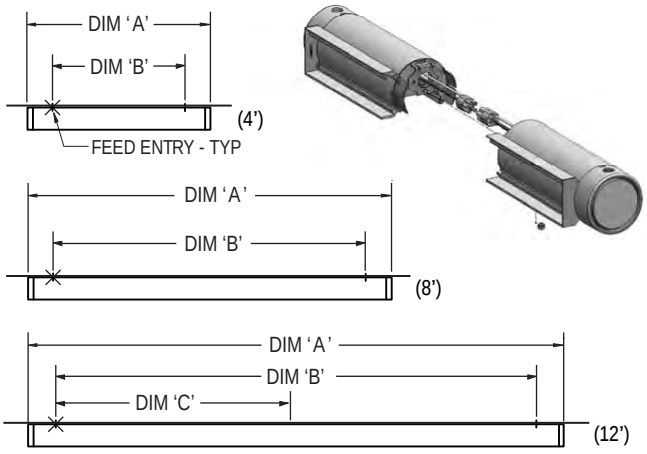


WALL MOUNT
INDIRECT-ASYMMETRIC

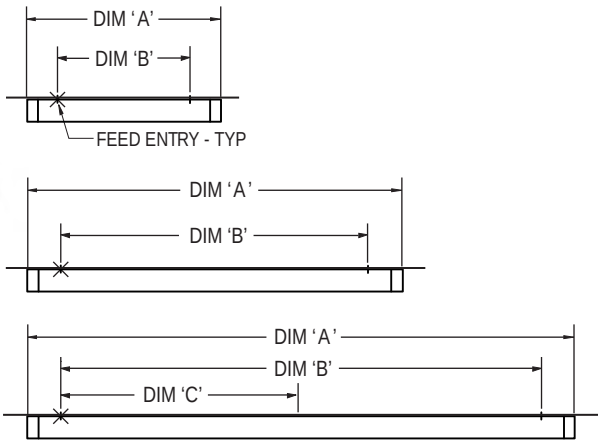


WALL MOUNT
INDIRECT-ASYMMETRIC/DIRECT

FLAT END CAP FIXTURES - (FE)



SCULPTED END CAP FIXTURES - (SE)



OVERALL FIXTURE LENGTH USING FLAT END CAPS DIM ' A'	OVERALL FIXTURE LENGTH USING SCULPTED END CAPS DIM ' A'	MOUNTING CENTERS DIM 'B'	MOUNTING CENTERS DIM 'C'
51 "	54 - 11/16 "	36 "	--------
99 "	102 - 11/16 "	84 "	--------
147 "	150 - 11/16 "	132 "	66 "

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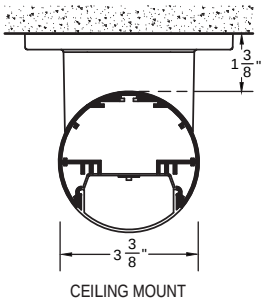
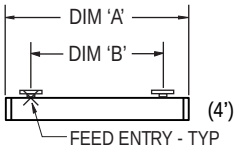
Standard Fixture Lengths and Mounting Centers

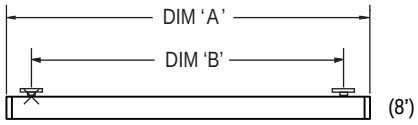
Ceiling Mount Configurations

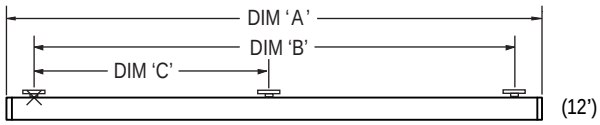
For installation instructions, visit:
AR300-Ceiling Mount Instructions - Click here



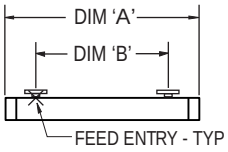
FLAT END CAP FIXTURES - (FE)

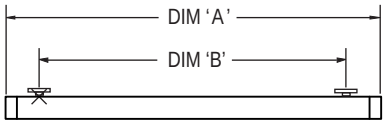


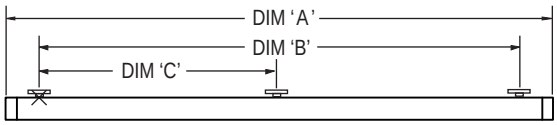




SCULPTED END CAP FIXTURES - (SE)







OVERALL FIXTURE LENGTH USING FLAT END CAPS DIM ' A'	OVERALL FIXTURE LENGTH USING SCULPTED END CAPS DIM ' A'	MOUNTING CENTERS DIM 'B'	MOUNTING CENTERS DIM 'C'
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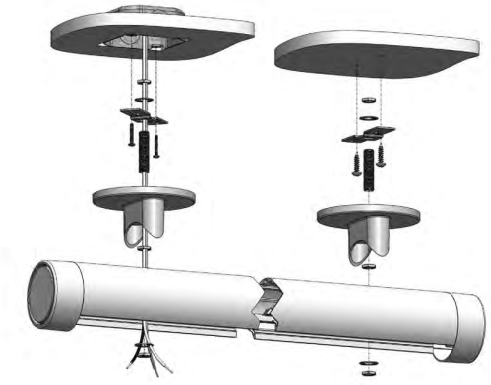
99 "	102 - 11/16 "	84 "	--------
147 "	150 - 11/16 "	132 "	66 "



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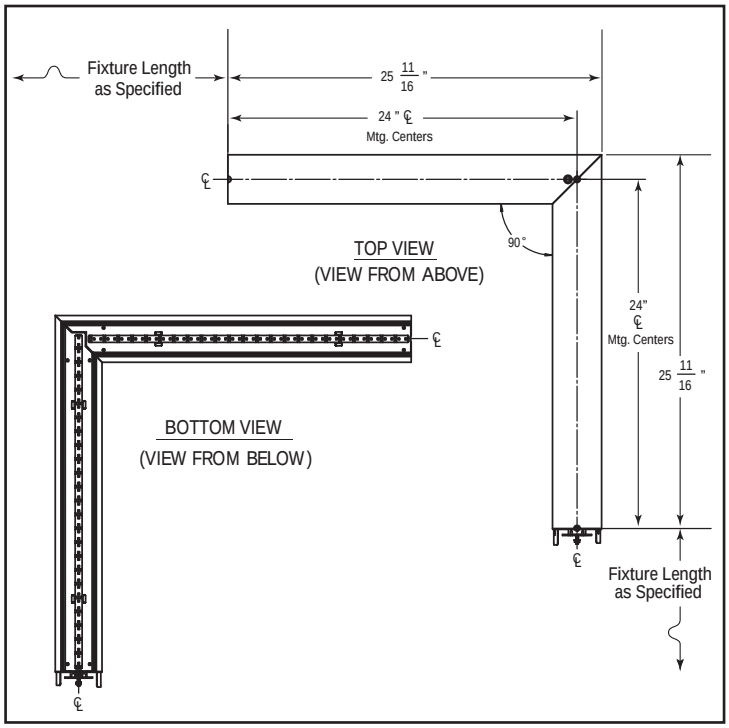
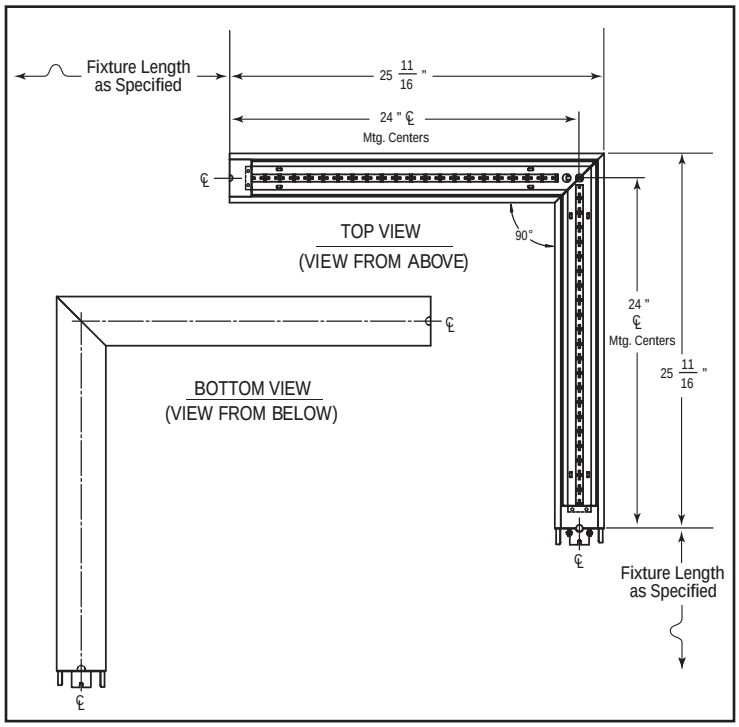
AR300 SERIES SUSPENDED MOUNT LIT CORNERS

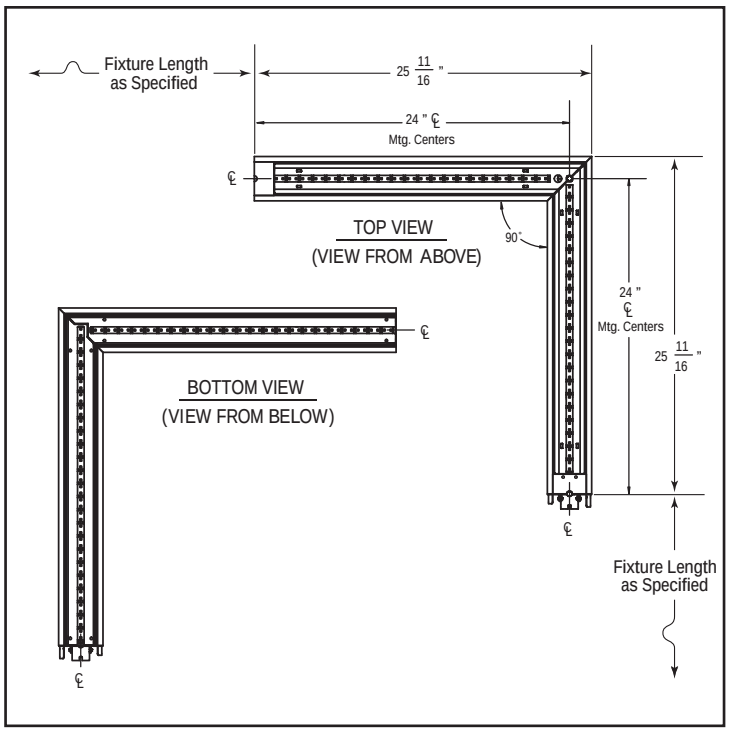
Direct Distribution
Mitered Corner - Lit

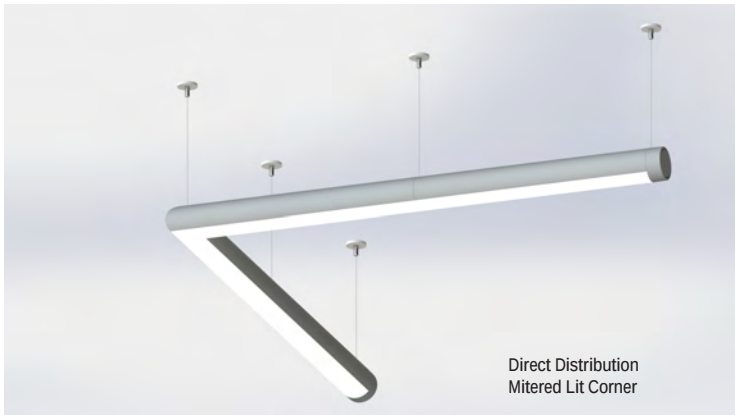


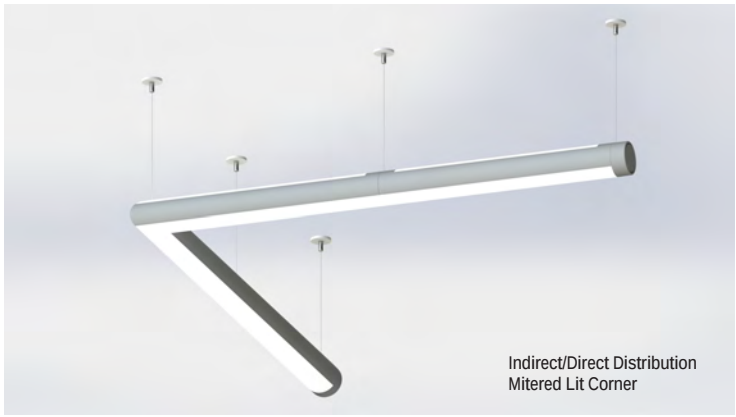
Indirect-Only Distribution
Mitered Corner - Lit



Indirect/Direct Distribution
Mitered Corner - Lit







Consult Factory for exact luminaire placement.

MADE IN AMERICA

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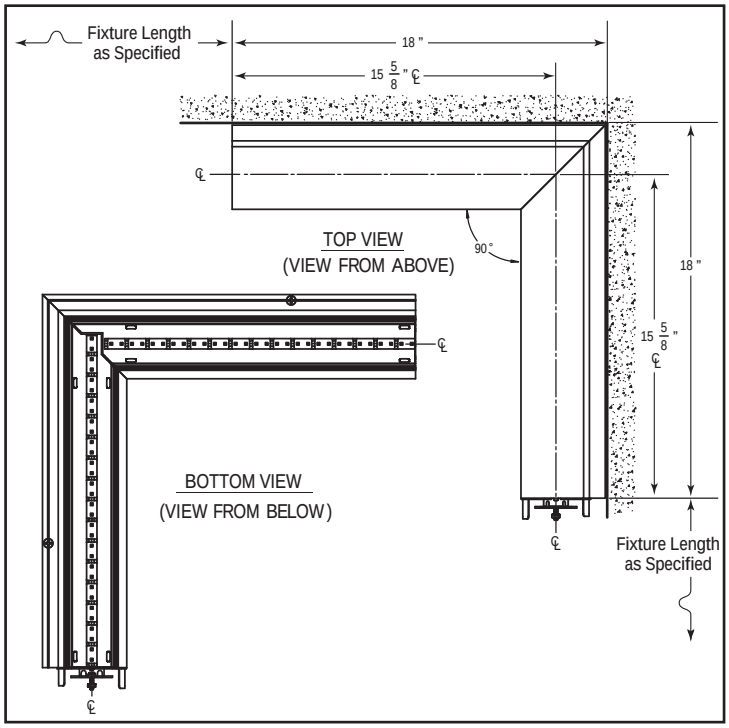
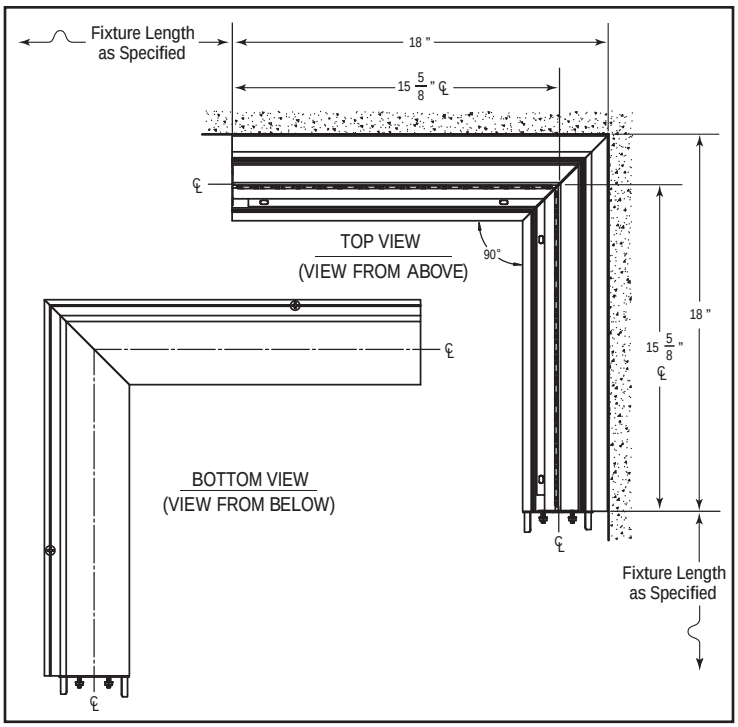
AR300 SERIES WALL MOUNT
INSIDE MITER LIT CORNERS

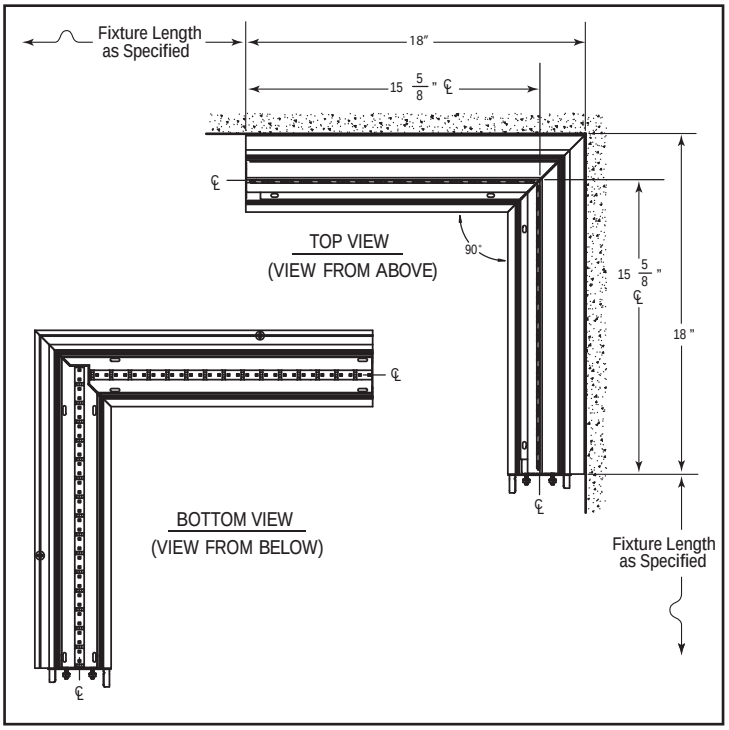
Direct Distribution Inside Mitered Corner - Lit



Indirect-Asymmetric Distribution Inside Mitered Corner - Lit



Indirect-Asymmetric / Direct Distribution Inside Mitered Corner - Lit



Shown: Direct Distribution Inside Miter Lit Corner

Consult Factory for exact luminaire placement.

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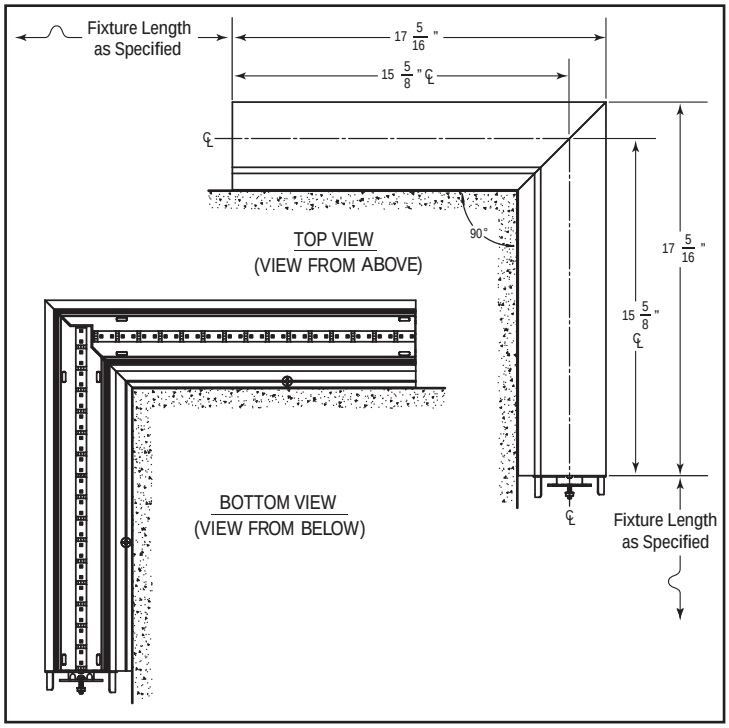
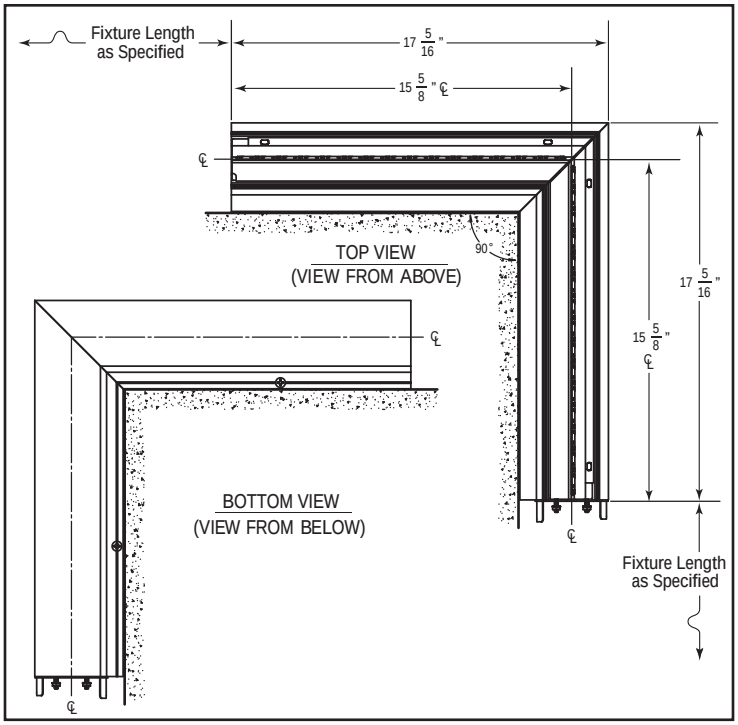
AR300 SERIES WALL MOUNT
OUTSIDE MITER LIT CORNERS

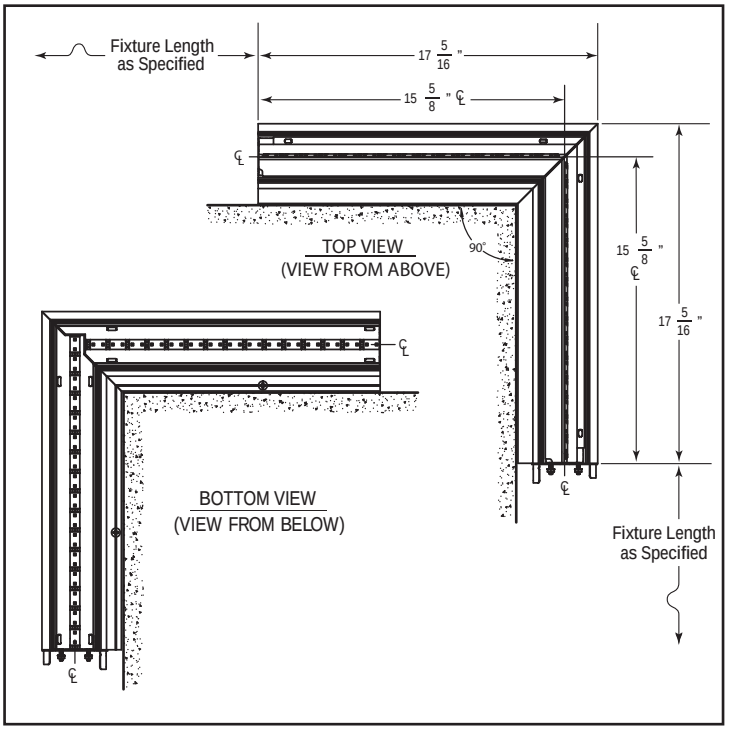
Direct Distribution Outside Mitered Corner - Lit



Indirect-Asymmetric Distribution Outside Mitered Corner - Lit



Indirect-Asymmetric / Direct Distribution Outside Mitered Corner - Lit



Shown: Indirect Distribution Outside Miter Lit Corner

Consult Factory for exact luminaire placement.

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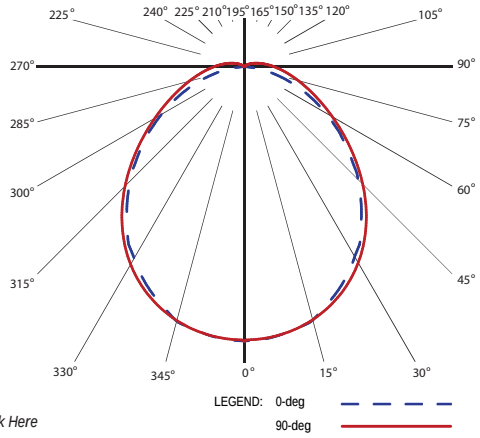
PAL ARCHITECTURAL
4830 Timber Creek Dr.
Houston, TX 77017
pal-lighting.com
(713) 946-4343

PHOTOMETRY / LIGHT DISTRIBUTIONS

AR300-D-HO-K40-LOH

Suspended, Ceiling, Wall Mount
Direct Distribution - LOH Lens
High Output



Catalog Number:
AR300-D-HO-K40-80-4'-X-LOH-120

Report Number:
#LLIA000930-002.ies

Total Delivered Lumens: 3679

Total Efficacy: 131.8 Lms/W

Input Power per 4': 27.9 Watts

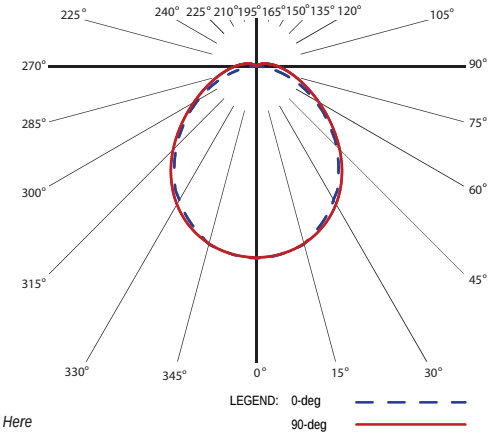
3.5% Up 96.5% Down

Color Rendering Index (CRI) = 84

To see the complete photometric report, visit:
AR300-D-HO-K40-LOH Report - Click Here

AR300-D-MO-K40-LOH

Suspended, Ceiling, Wall Mount
Direct Distribution - LOH Lens
Medium Output



Catalog Number:
AR300-D-MO-K40-80-4'-X-LOH-120

Report Number:
#LLIA000930-001.ies

Total Delivered Lumens: 2503

Total Efficacy: 134.6 Lms/W

Input Power per 4': 18.6 Watts

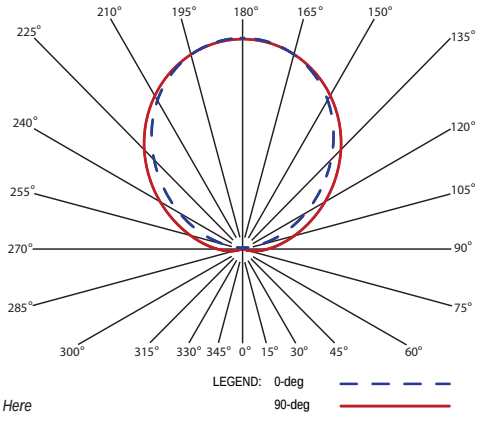
3.5% Up 96.5% Down

Color Rendering Index (CRI) = 84

To see the complete photometric report, visit:
AR300-D-MO-K40-LOH Report - Click Here

AR300-I-HO-K40-LOH

Suspended Mount
Indirect Distribution - LOH Lens
High Output



Catalog Number:
AR300-I-HO-K40-80-4'-X-LOH-120

Report Number:
#LLIA000930-006.ies

Total Delivered Lumens: 3796

Total Efficacy: 136.1 Lms/W

Input Power per 4': 27.9 Watts

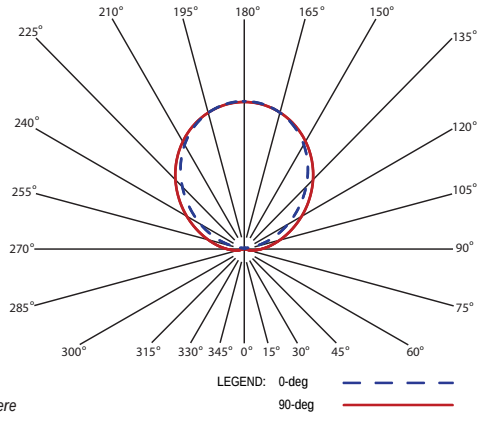
96.3% Up 3.7% Down

Color Rendering Index (CRI) = 84

To see the complete photometric report, visit:
AR300-I-HO-K40-LOH Report - Click Here

AR300-I-MO-K40-LOH

Suspended Mount
Indirect Distribution - LOH Lens
Medium Output



Catalog Number:
AR300-I-MO-K40-80-4'-X-LOH-120

Report Number:
#LLIA000930-005.ies

Total Delivered Lumens: 2603

Total Efficacy: 139.9 Lms/W

Input Power per 4': 18.6 Watts

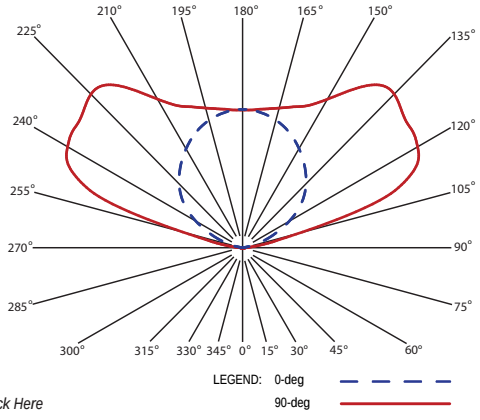
96.3% Up 3.7% Down

Color Rendering Index (CRI) = 85

To see the complete photometric report, visit:
AR300-I-MO-K40-LOH Report - Click Here

AR300-I-HO-K40-WSCL

Suspended Mount
Indirect Distribution - Wide-Spread Optic & Lens
High Output



Catalog Number:
AR300-I-HO-K40-80-4'-X-WSCL-120

Report Number:
#LLIA000930-004.ies

Total Delivered Lumens: 3590

Total Efficacy: 128.7 Lms/W

Input Power per 4': 27.9 Watts

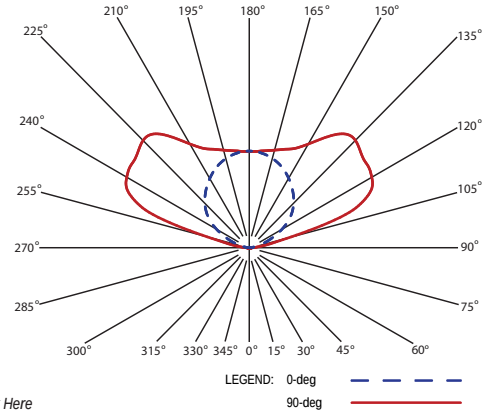
99.4% Up .6% Down

Color Rendering Index (CRI) = 84

To see the complete photometric report, visit:
AR300-I-HO-K40-WSCL Report - Click Here

AR300-I-MO-K40-WSCL

Suspended Mount
Indirect Distribution - Wide-Spread Optic & Lens
Medium Output



Catalog Number:
AR300-I-MO-K40-80-4'-X-WSCL-120

Report Number:
#LLIA000930-003.ies

Total Delivered Lumens: 2603

Total Efficacy: 139.9 Lms/W

Input Power per 4': 18.6 Watts

99.4% Up .6% Down

Color Rendering Index (CRI) = 85

To see the complete photometric report, visit:
AR300-I-MO-K40-WSCL Report - Click Here

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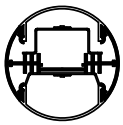
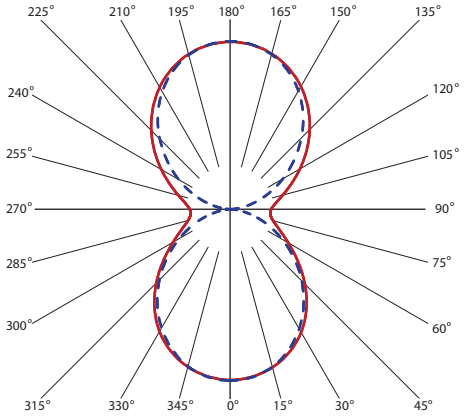
AR300 SERIES
PHOTOMETRIC PERFORMANCE

PHOTOMETRY / LIGHT DISTRIBUTIONS

AR300-I/D-HO/HO-K40-LOH/LOH

Suspended Mount
Indirect/Direct - LOH Lens Up/LOH Lens Down
High Output - Up and Down





Catalog Number:
AR300-I/D-HO/HO-K40-80-4'-X-LOH/LOH-120

Report Number:
#LLIA000930-010.ies

Total Delivered Lumens: 7682

Total Efficacy: 128.9 Lms/W

Input Power per 4': 59.6 Watts

51% Up 49% Down

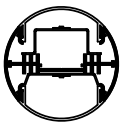
Color Rendering Index (CRI) = 84

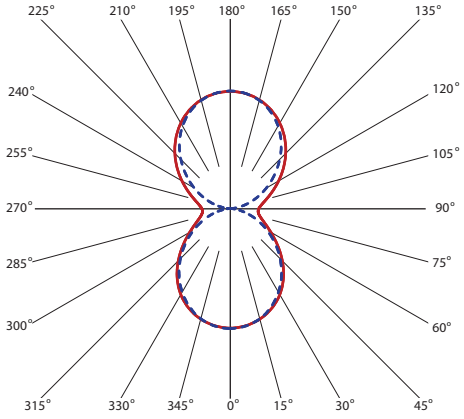
To see the complete photometric report, visit:

AR300-I/D-HO/HO-K40-LOH/LOH Report - Click Here

AR300-I/D-MO/MO-K40-LOH/LOH

Suspended Mount
Indirect/Direct - LOH Lens Up/LOH Lens Down
Medium Output - Up and Down





Catalog Number:
AR300-I/D-MO/MO-K40-80-4'-X-LOH/LOH-120

Report Number:
#LLIA000930-009.ies

Total Delivered Lumens: 5057

Total Efficacy: 139.9 Lms/W

Input Power per 4': 36.2 Watts

51% Up 49% Down

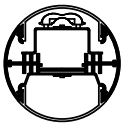
Color Rendering Index (CRI) = 85

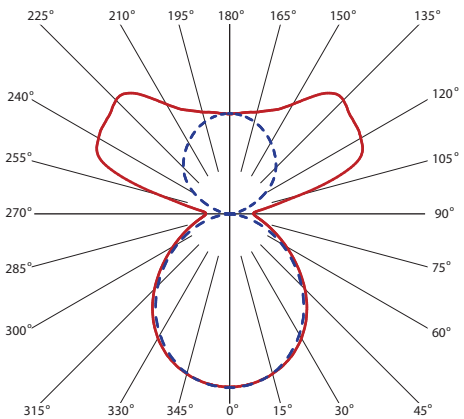
To see the complete photometric report, visit:

AR300-I/D-MO/MO-K40-LOH/LOH Report - Click Here

AR300-I/D-HO/HO-K40-WSCL/LOH

Suspended Mount
Indirect/Direct - WSCL Lens Up/LOH Lens Down
High Output - Up and Down





Catalog Number:
AR300-I/D-HO/HO-K40-80-4'-X-WSCL/LOH-120

Report Number:
#LLIA000930-008.ies

Total Delivered Lumens: 7494

Total Efficacy: 126.1 Lms/W

Input Power per 4': 59.5 Watts

51% Up 49% Down

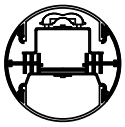
Color Rendering Index (CRI) = 84

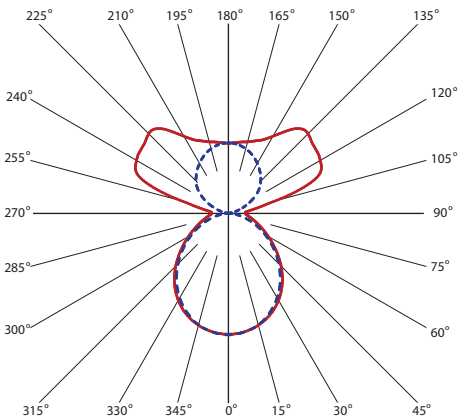
To see the complete photometric report, visit:

AR300-I/D-HO/HO-K40-WSCL/LOH Report - Click Here

AR300-I/D-MO/MO-K40-WSCL/LOH

Suspended Mount
Indirect/Direct - WSCL LENS UP/LOH Lens Down
Medium Output - Up and Down





Catalog Number:
AR300-I/D-MO/MO-K40-80-4'-X-WSCL/LOH-120

Report Number:
#LLIA000930-007.ies

Total Delivered Lumens: 4933

Total Efficacy: 136.5 Lms/W

Input Power per 4': 36.1 Watts

51% Up 49% Down

Color Rendering Index (CRI) = 85

To see the complete photometric report, visit:

AR300-I/D-MO/MO-K40-WSCL/LOH Report - Click Here

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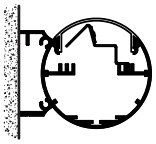
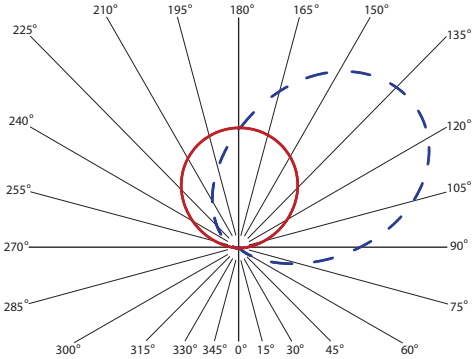
PHOTOMETRY / LIGHT DISTRIBUTIONS

AR300-IASY-HO-K40-LOH

Wall Mount
Indirect-Asymmetric - LOH Lens Up
High Output





Catalog Number:
AR300-IASY-HO-K40-80-4'-W-LOH-120

Report Number:
#LLIA000938-006.ies

Total Delivered Lumens: 3137

Total Efficacy: 113.0 Lms/W

Input Power per 4': 27.8 Watts

91% Up 9% Down

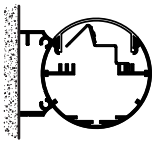
Color Rendering Index (CRI) = 84

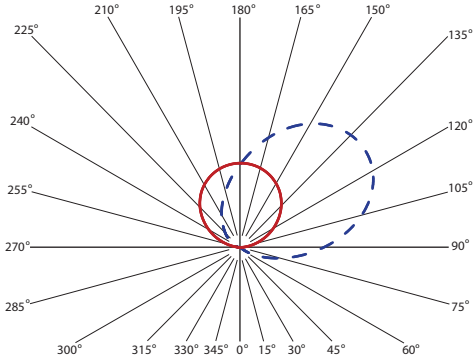
To see the complete photometric report, visit:

AR300-IASY-HO-K40-LOH Report - Click Here

AR300-IASY-MO-K40-LOH

Wall Mount
Indirect-Asymmetric - LOH Lens Up
Medium Output





Catalog Number:
AR300-IASY-MO-K40-80-4'-X-LOH-120

Report Number:
#LLIA000938-005.ies

Total Delivered Lumens: 2345

Total Efficacy: 115.4 Lms/W

Input Power per 4': 20.3 Watts

91% Up 9% Down

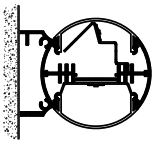
Color Rendering Index (CRI) = 84

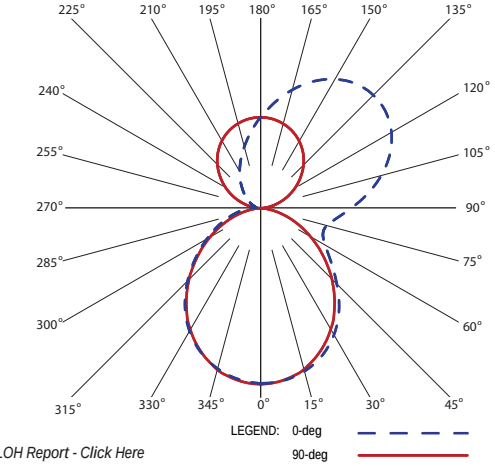
To see the complete photometric report, visit:

AR300-IASY-MO-K40-LOH Report - Click Here

AR300-IASY/D-HO/HO-K40-LOH/LOH

Wall Mount
Indirect-Asymm./Direct - LOH Lens Up/LOH Lens Down
High Output - Up and Down





Catalog Number:
AR300-IASY/D-HO/HO-K40-80-4'-W-LOH/LOH-120

Report Number:
#LLIA000956-002.ies

Total Delivered Lumens: 6775

Total Efficacy: 124.8 Lms/W

Input Power per 4': 54.3 Watts

43% Up 57% Down

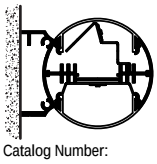
Color Rendering Index (CRI) = 84

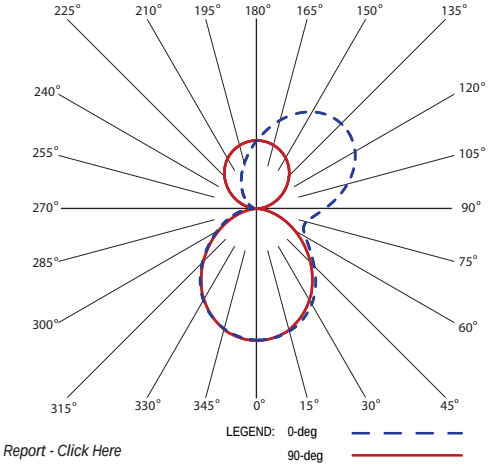
To see the complete photometric report, visit:

AR300-IASY/D-HO/HO-K40-LOH/LOH Report - Click Here

AR300-IASY/D-MO/MO-K40-LOH/LOH

Wall Mount
Indirect-Asymm./Direct - LOH LENS UP/LOH Lens Down
Medium Output - Up and Down





Catalog Number:
AR300-IASY/D-MO/MO-K40-80-4'-W-LOH/LOH-120

Report Number:
#LLIA000956-001.ies

Total Delivered Lumens: 4671

Total Efficacy: 128.0 Lms/W

Input Power per 4': 36.5 Watts

43% Up 57% Down

Color Rendering Index (CRI) = 84

To see the complete photometric report, visit:

AR300-IASY/D-MO/MO-K40-LOH/LOH Report - Click Here

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