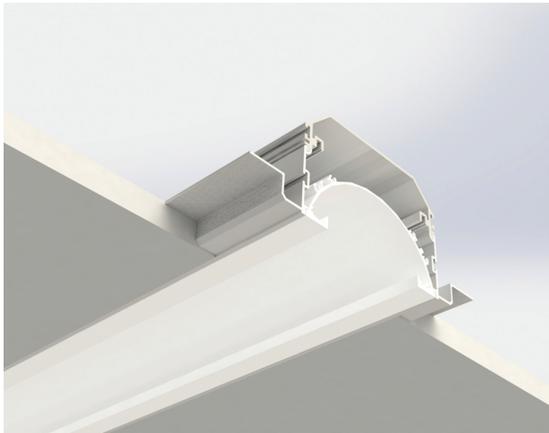# PAL™
ARCHITECTURAL

ARCATA RECESSED

Qty: **Type:**

Project Name:

Catalog Number:

ARCATA'S precisely designed indirect optics and parabolic reflector combine to produce uniform direct illumination without distracting glare. Joint shields eliminate the look of fixture connections, creating lines of continuous, unbroken light.

ARCATA fits into drywall ceilings as well as most grid ceiling systems, including the Armstrong TechZone™ system. In addition to a standard wide-spread distribution, ARCATA also offers an asymmetric distribution for wall washing.

ARCATA's excellent performance make it an ideal fixture for accumulating LEED certification points.

SPECIFICATIONS

Grid Ceiling Mount
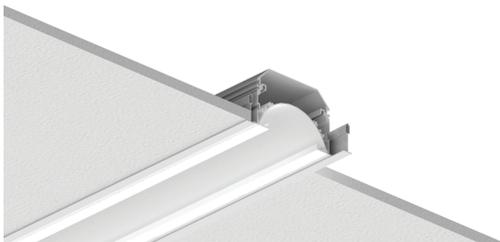
Drywall Ceiling Mount

Housing
Constructed of three-piece .090" thick extruded aluminum and available in single sections of 2', 3', 4', 5', 6', 7' and 8' long. Continuous rows and custom lengths are available in increments down to 1".
Standard flange finish is white. Custom flange colors are also available.

Optical Controls/Distribution
Standard Distribution -and-
Asymmetric (Wall Wash) Distribution

Matte white film (minimum 96% reflectivity) installed into curved parabolic reflector - conforming to its shape.
Clear acrylic snap-in lenses cover the LED light engines for easy wipe-down cleaning.
Arcata is available in two distinct distributions:
Symmetric: Soft, glare-free wide-spread distribution for even, natural-feeling illumination.
Asymmetric: Directional glare-free distribution for high-lighting and wall washing.

Reflector
.065" thick extruded aluminum reflector assembly. Snaps-in to fixture housing and is removable from below for driver/wire-way access.

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
Fixtures are IC (Insulation Contact) rated.

Color Temperatures/CRI
LED light sources are available for the following Co-ordinated Color Temperatures (CCT):
Standard: 2700K, 3000K, 3500K, 4000K, & 5000K
Color Rendering Index (CRI): Standard: 80
Optional: 90

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
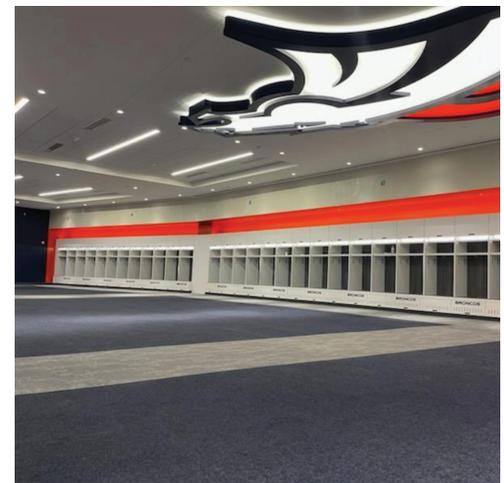
Revit Files
Revit model (BIM) files for the ARCATA Series are available by visiting:

ARCATA - Fixture Performance

Standard Lumen Outputs Available	Standard Very High Output - (VHO)		Standard High Output - (HO)		Standard Medium Output - (MO)	
Fixture / Distribution Type	ARR5 Symmetric	ARR5 Asymmetric (Wall Wash)	ARR5 Symmetric	ARR5 Asymmetric (Wall Wash)	ARR5 Symmetric	ARR5 Asymmetric (Wall Wash)
Delivered Lumens/Foot - Standard	805	396	589	299	396	200
Input Watts/Foot - Standard	8	4	6	3	4	2
Lumens/Watt - (Efficacy) - Standard	107	103	108	102	104	98
Custom Lumen Outputs Available						
Distribution Type	Symmetric Distribution			Asymmetric Distribution		
Custom Lumens/Ft - Minimum thru Maximum Available*	200 - 1500			100 - 750		

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

LEED LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN

IC RATED

ETL LISTED c us Intertek

eldoLED® your product | our drive

PAL™
ARCHITECTURAL

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

ORDERING GUIDE

Series		Outputs		Color Temperature (CCT)		Color Rendering		Fixture Lengths	
ARR5	Arcata Recessed - Symmetric Distribution	HO	High Output	K27	2700 Kelvin	80	80 CRI	2'	2 Ft
		MO	Medium Output	K30	3000 Kelvin	90	90 CRI	3'	3 Ft
		*See chart on page 1 for standard outputs in Lms/Ft.		K35	3500 Kelvin			4'	4 Ft
ARR5ASY	Arcata Recessed - Asymmetric Distribution			K40	4000 Kelvin			5'	5 Ft
		CO ____ **Custom Output		K50	5000 Kelvin			6'	6 Ft
		**Enter requested Lumens/Ft						7'	7 Ft
								8'	8 Ft

Fixture Lengths: XX' XX" : For continuous or custom row lengths, specify in increments down to 1". Example: 13' 5"

Ceiling Type [9]		Flange Color		Mounting		Voltage	
FT	Flush Tile Clg. - 15/16" or 9/16" Grid	F01M	Matte White (Standard)	TR	1/4-20 Threaded Rod - Overlap or Spackle Flange[6]- (By Others)	120	120V
TT	Tegular Tile Clg. - 15/16" or 9/16" Grid	FXXX	PAL Premium Colors: (F01G thru F22)	YK	Yoke Mount Bracket Assy - Overlap Flange or Spackle Flange[6]	277	277V
SG	Screw Slot Grid Clg.	FCC	Custom Color Match Provide RAL Color# ____	AC	Adjustable Cable Assy - Overlap Flange	UNV	Universal Voltage (120V thru 277V)
OF	Drywall Clg. - Overlap Flange			blank	Leave blank if fixture is Grid Ceiling mount	347	347V
SF1	Drywall Clg. - Spackle Flange - 1/2"						
SF5	Drywall Clg. - Spackle Flange - 5/8"						

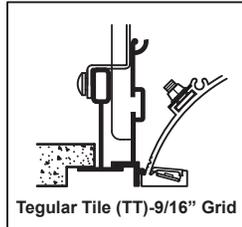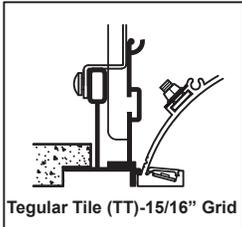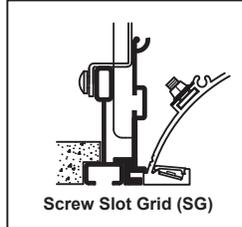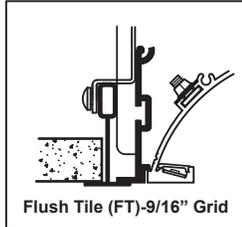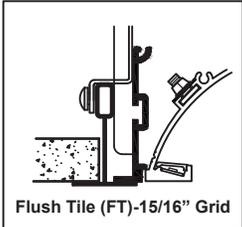| Drivers - Dimming [2, 4]		Emergency / Rating Options	
DIM0	Dimming 100% to 0%	NLCKT	Night-Light Circuit (Common Neutral)
DIM1	Dimming 100% to 1%	EMCKT	Emergency Circuit (Sep. Hot & Neutral)
DIM5	Dimming 100% to 5%	EBPHST	Emergency Battery Pack - 10 Watt [7] Self-Testing. (Integral Mount)
DIM10	Dimming 100% to 10%	GTD	Generator Transfer Device (Integral Mount)
		FS	Slow-Blow Fuse & Fuse Holder (Integral Mount)
		CP	Chicago Plenum Listing

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 with 0-10V dimming capability and 120 thru 277 universal voltage.
5. All ARCATA recessed fixtures carry an "IC" - Insulation Contact Rating.
6. Note: Spackle Flange fixtures are not intended for post-ceiling installation. (Fixtures must be mounted prior to installation of the ceiling.)
7. 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.
8. Custom length fixtures and fixtures rows may require a longer lead time. Contact specs@pallighting.com for more information.
9. ARCATA fits into Armstrong TechZone™ ceiling systems.
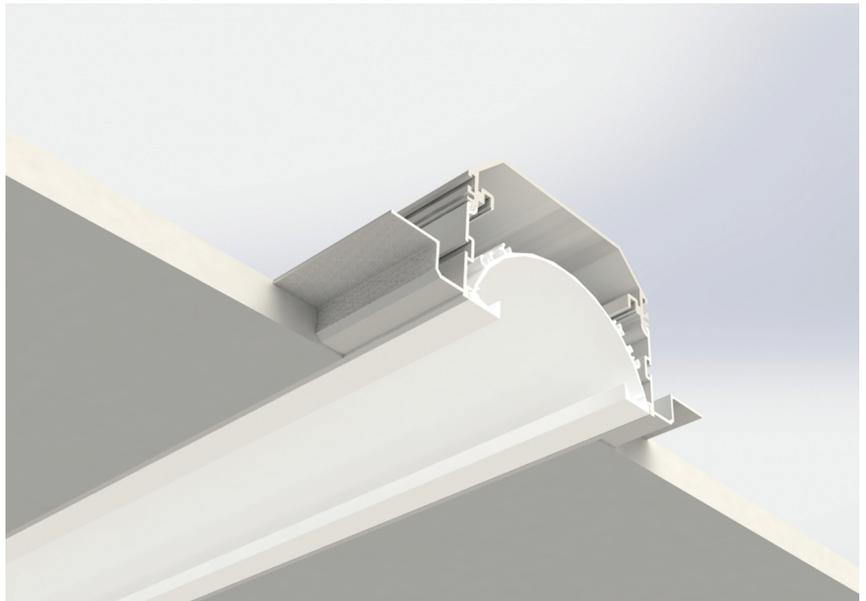
ARCATA RECESSED

CEILING TRIMS

Grid Ceiling

Flush Tile (FT)-15/16" Grid

Flush Tile (FT)-9/16" Grid

Screw Slot Grid (SG)

Tegular Tile (TT)-15/16" Grid

Tegular Tile (TT)-9/16" Grid

Drywall Ceiling

Overlap Flange (OF)

Spackle Flange-1/2" (SF1)

Spackle Flange-5/8" (SF5)
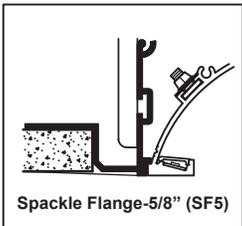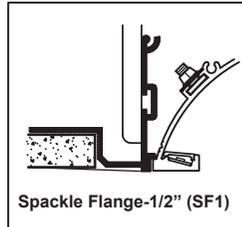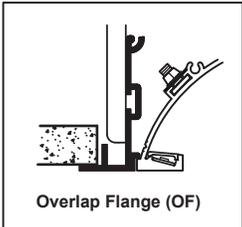
TECHNICAL DRAWINGS

4"

$3\frac{1}{2}$"

6" "T-CENTERS"
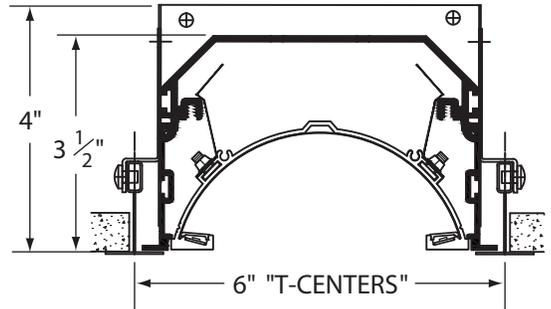
ARCATA RECESSED
GRID CEILING

4"

$3\frac{1}{2}$"

ARCATA RECESSED
DRYWALL CEILING - OVERLAP FLANGE

4"

$3\frac{1}{2}$"
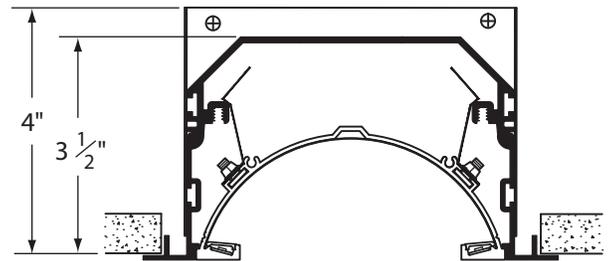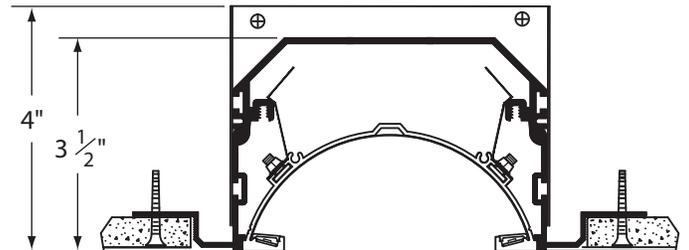
ARCATA RECESSED
DRYWALL CEILING - SPACKLE FLANGE

QUICK-CONNECT WIRING
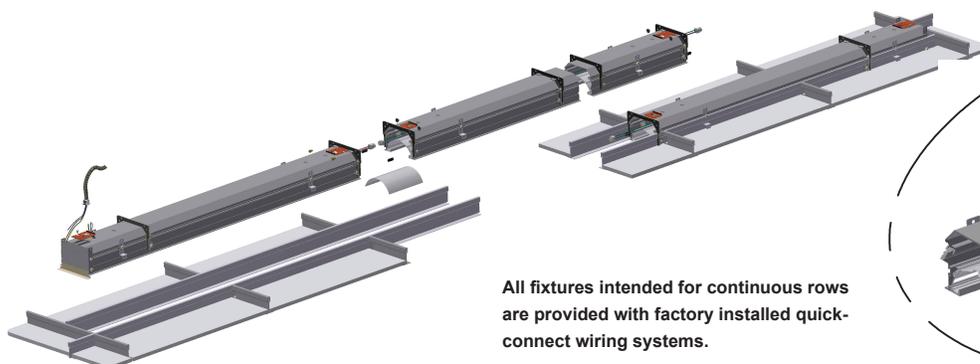
All fixtures intended for continuous rows are provided with factory installed quick-connect wiring systems.

PAL™ ARCHITECTURAL
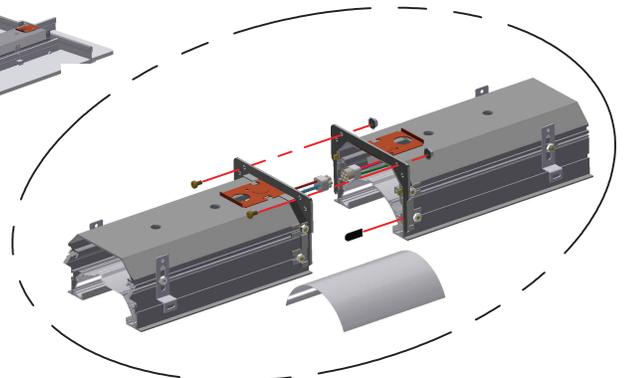
ROW GUIDES - SINGLE FIXTURES & CONTINUOUS ROWS

NOMINAL LENGTH	DIM "B" INCLUDES BLANK ENDS	ROW ARRANGEMENT - GRID CEILING MOUNT
2'	23-13/16"	(2) Single Fixture Housing
3'	35-13/16"	(3) Single Fixture Housing
4'	47-13/16"	(4) Single Fixture Housing
5'	59-11/16"	(3) (2) Single Fixture Housing
6'	71-11/16"	(3) (3) Single Fixture Housing
7'	83-11/16"	(4) (3) Single Fixture Housing
8'	95-11/16"	(4) (4) Single Fixture Housing
9'	107-3/4"	(3) (3) (3)
10'	119-3/4"	(4) (3) (3)
12'	143-3/4"	(3) (3) (3) (3)
14'	167-3/4"	(4) (4) (3) (3)
16'	191-3/4"	(4) (3) (3) (3) (3)
		Contact *specs@pallighting.com* For Rows Longer Than 16'

Blank End (Typ.)

"B" Overall Length - Including Blank Ends
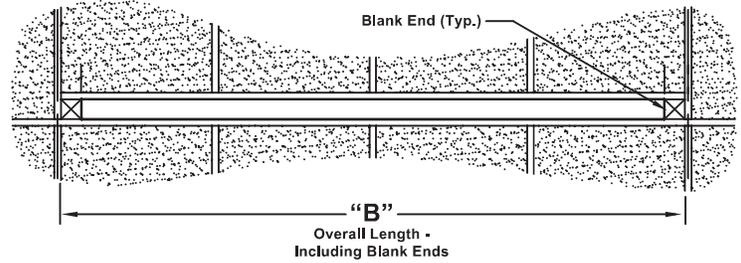
To view the GRID CEILING MOUNT installation sheet, visit:
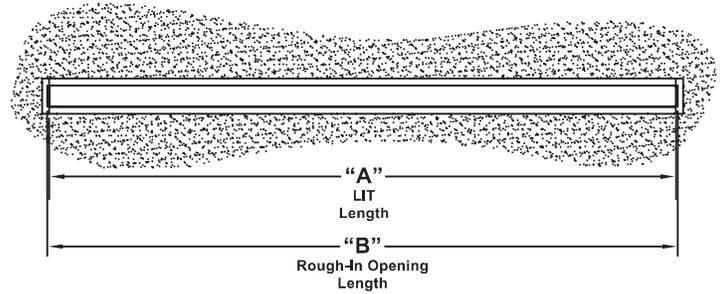*Grid Ceiling Installation Sheet - Click Here*

NOMINAL LENGTH	DIM "A" LIT LENGTH	DIM "B" ROUGH-IN OPENING	ROW ARRANGEMENT - DRYWALL - OVERLAP FLANGE MOUNT
2'	22-13/16"	23-9/16"	(2) Single Fixture Housing
3'	34-13/16"	35-9/16"	(3) Single Fixture Housing
4'	46-13/16"	47-9/16"	(4) Single Fixture Housing
5'	57-5/8"	58-3/8"	(3) (2) Single Fixture Housing
6'	69-5/8"	70-3/8"	(3) (3) Single Fixture Housing
7'	81-5/8"	82-3/8"	(4) (3) Single Fixture Housing
8'	93-5/8"	94-3/8"	(4) (4) Single Fixture Housing
9'	106-3/4"	107-1/2"	(3) (3) (3)
10'	118-3/4"	119-1/2"	(4) (3) (3)
12'	142-3/4"	143-1/2"	(3) (3) (3) (3)
14'	166-3/4"	167-1/2"	(4) (4) (3) (3)
16'	190-3/4"	191-1/2"	(4) (3) (3) (3) (3)
			Contact *specs@pallighting.com* For Rows Longer Than 16'

"A" LIT Length

"B" Rough-In Opening Length

To view the DRYWALL - OVERLAP FLANGE MOUNT installation sheets, visit:
Drywall - Overlap Flange Installation Sheet - Click Here
Drywall - Overlap Flange Threaded Rod Installation Sheet - Click Here
Drywall - Overlap Flange Snap-In Yoke Installation Sheet - Click Here

NOMINAL LENGTH	DIM "A" LIT LENGTH	ROW ARRANGEMENT - DRYWALL - SPACKLE FLANGE MOUNT
2'	22-13/16"	(2) Single Fixture Housing
3'	34-13/16"	(3) Single Fixture Housing
4'	46-13/16"	(4) Single Fixture Housing
5'	57-5/8"	(3) (2) Single Fixture Housing
6'	69-5/8"	(3) (3) Single Fixture Housing
7'	81-5/8"	(4) (3) Single Fixture Housing
8'	93-5/8"	(4) (4) Single Fixture Housing
9'	106-3/4"	(3) (3) (3)
10'	118-3/4"	(4) (3) (3)
12'	142-3/4"	(3) (3) (3) (3)
14'	166-3/4"	(4) (4) (3) (3)
16'	190-3/4"	(4) (3) (3) (3) (3)
		Contact *specs@pallighting.com* For Rows Longer Than 16'

Spackle Flange Mount fixtures must be installed PRIOR to ceiling installation.

"A" LIT Length
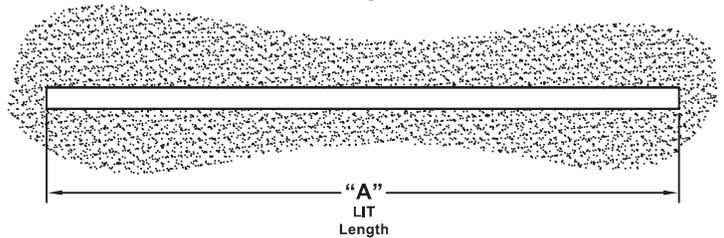
To view the DRYWALL - SPACKLE FLANGE MOUNT installation sheets, visit:
Drywall - Spackle Flange Installation Sheet - Click Here
Drywall - Spackle Flange Threaded Rod Installation Sheet - Click Here

Indicates Nominal LED Module Length in Feet — (4) | (4) — Indicates Joint Between Fixture Housings

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

PAL ARCHITECTURAL™

ARCATA RECESSED

LIGHT DISTRIBUTIONS - SYMMETRIC

ARR5-VHO-K40
Very High Output

Catalog Number:
ARR5-VHO-K40-80-4'-X-UNV

Report Number:
#LLIA001570-002.ies

Total Efficacy: 107.3 Lms/W

Input Power per 4': 30.00 Watts

0% Up   100% Down

Color Rendering Index (CRI) = 83

To see the complete photometric report, visit:

ARR5-VHO-K40 Report - Click Here

LEGEND: 0-deg ----   90-deg ——

ARR5-HO-K40
High Output

Catalog Number:
ARR5-HO-K40-80-4'-X-UNV

Report Number:
#LLIA001570-003.ies

Total Efficacy: 107.7 Lms/W

Input Power per 4': 21.89 Watts

0% Up   100% Down

Color Rendering Index (CRI) = 83

To see the complete photometric report, visit:

ARR5-HO-K40 Report - Click Here

LEGEND: 0-deg ----   90-deg ——

ARR5-MO-K40
Medium Output

Catalog Number:
ARR5-MO-K40-80-4'-X-UNV

Report Number:
#LLIA001570-004.ies

Total Efficacy: 103.8 Lms/W

Input Power per 4': 15.24 Watts

0% Up   100% Down

Color Rendering Index (CRI) = 83

To see the complete photometric report, visit:

ARR5-MO-K40 Report - Click Here

LEGEND: 0-deg ----   90-deg ——

LIGHT DISTRIBUTIONS - ASYMMETRIC

ARR5ASY-VHO-K40
Very High Output

Catalog Number:
ARR5-VHO-K40-80-4'-X-UNV

Report Number:
#LLIA001607-001.ies

Total Efficacy: 102.8 Lms/W

Input Power per 4': 15.42 Watts

0% Up   100% Down

Color Rendering Index (CRI) = 83

To see the complete photometric report, visit:

ARR5ASY-VHO-K40 Report - Click Here

LEGEND: 0-deg ----   90-deg ——

ARR5ASY-HO-K40
High Output

Catalog Number:
ARR5-HO-K40-80-4'-X-UNV

Report Number:
#LLIA001607-002.ies

Total Efficacy: 101.9 Lms/W

Input Power per 4': 11.72 Watts

0% Up   100% Down

Color Rendering Index (CRI) = 83

To see the complete photometric report, visit:

ARR5ASY-HO-K40 Report - Click Here

LEGEND: 0-deg ----   90-deg ——

ARR5ASY-MO-K40
Medium Output

Catalog Number:
ARR5-MO-K40-80-4'-X-UNV

Report Number:
#LLIA001607-003.ies

Total Efficacy: 98.2 Lms/W

Input Power per 4': 8.12 Watts

0% Up   100% Down

Color Rendering Index (CRI) = 83

To see the complete photometric report, visit:

ARR5ASY-MO-K40 Report - Click Here

LEGEND: 0-deg ----   90-deg ——