

PLUS SERIES | P3SA 3-Inch Square Adjustable Downlight

A family of Downlights, Adjustables, and Wall Wash luminaires; the PLUS Series provides an exceptional balance of performance, quality and value.



FEATURES

- Performance:** Providing outstanding performance, the PLUS Series Adjustable Downlights deliver up to 2500 Lumens, and efficacies up to 100 Lumens per Watt
- Visual Comfort:** Precise optical control with three (3) beam distributions from 22° to 52°; Trims available in Angle-Cut or Beveled
- Light Quality:** Premium quality light source: color consistency within 2 SDCM and excellent color rendering over 90 CRI
- Flexibility:** Designed as a direct install product for effortless installation; additional housing options are available to accommodate a variety of applications



P3SA DOWNLIGHT MODULE	10L	15L	20L	25L
NOMINAL LUMEN OUTPUT ¹	1000Lm	1500Lm	2000Lm	2500Lm
NOMINAL WATTAGE	10W	14W	20W	28W
INPUT VOLTAGE	120V - 277V / 347V			
COLOR TEMPERATURE CRI	2700K / 3000K / 3500K / 4000K 80 / 90+ CRI			
BEAM DISTRIBUTIONS	Narrow (22°), Medium (35°), Flood (52°)			
DRIVER DIMMING OPTIONS	Phase (Forward / Reverse), 0-10V, Lutron EcoSystem, DALI			
MOUNTING OPTIONS	Direct Mount Remodel Non-IC New Construction Frame Insulated Ceiling (IC) / StopAire™ / Chicago Plenum Housing			
LISTINGS	cCSAus Certified to UL and CSA Standards; Suitable for Damp Locations ICSA Housing / Chicago Plenum Housing is CCEA Listed ICSA Housing conforms to Washington State Energy Code (WSEC) for Low Air Infiltration; tested in accordance with ASTM E283 (2.0 CFM or less) ENERGY STAR® Certified ² Can be used to comply with CEC Title 24 Part 6 JA8 High Efficacy LED Light Source Requirements ²			
WARRANTY	Five (5) year replacement after date of purchase Emergency battery backup option covered by a one (1) year replacement guarantee after date of purchase			
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance			

1. Approximate lumen output based on 3000K performance; see photometric test results for additional information
 2. Some restrictions apply, see Certification section of Product Specifications (page 4) for details

PLUS SERIES | P3SA 3-Inch Square Adjustable Downlight

ORDERING INFORMATION

Example Order: P3SA-25L30KMMVD2 / P3STA-SL / P3SA-NC

MODULE ORDERING INFORMATION

Series	Lumens	CCT/CRI	Beam Dist.	Electrical/Driver	Options
P3SA PLUS Series 3-Inch Square Adjustable Downlight	10L 1000Lm 15L 1500Lm 20L 2000Lm 25L³ 2500Lm	80+ CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 90+ CRI 27KC 2700K 30KC 3000K 35KC 3500K 40KC 4000K	N 22° Narrow M 35° Medium F 52° Flood	ALL MVD DRIVER OPTIONS ARE MULTI-VOLT: 120 - 277V MVD Phase (Forward/Reverse)/0-10V Dimming MVD2 0-10V, 1% Dimming MVD4 Lutron Hi-lume EcoSystem 1% Dimming with Soft-on, Fade-to-Black MVD6⁴ eldoLED ECOdrive 0-10V, 1% Dimming MVD7⁴ eldoLED ECOdrive DALI, 1% Dimming MVD8⁴ eldoLED SOLOdrive 0-10V, 0.1% Dimming MVD9⁴ eldoLED SOLOdrive DALI, 0.1% Dimming 34D2 347V 0-10V Dimming	No Battery Back-Up Leave Blank ER⁵ Emergency Battery Backup with Remote Test Switch

3. 25L Lumen Option (28W) is not available for use with ICESA Housings and is restricted up to the 20L option max.
 4. eldoLED Drivers are programmed for Linear Curve Dimming as standard; for Logarithmic Curve Dimming, consult factory
 5. The ER Emergency Battery Backup for Damp Location only

TRIM & HOUSING ORDERING INFORMATION

Series	Trim Type	Lens	Trim Finish	Housing Type
P3ST PLUS Series Square Trim	A Angle-Cut B⁶ Bevel	No Lens <i>Leave Blank</i> LSOL Wet Listed Trim with Solite Lens LCL Wet Listed Trim with Clear Lens	SL Satin Silver SLW Satin Silver with White Painted Flange WHT⁶ Matte White BLK⁶ Matte Black	P3SA-NC Large New Construction Frame: 10-1/2" x 15" P3SA-ICESA Large Insulated Ceiling / StopAire™ / Chicago Plenum Housing: 10-1/2" x 15"

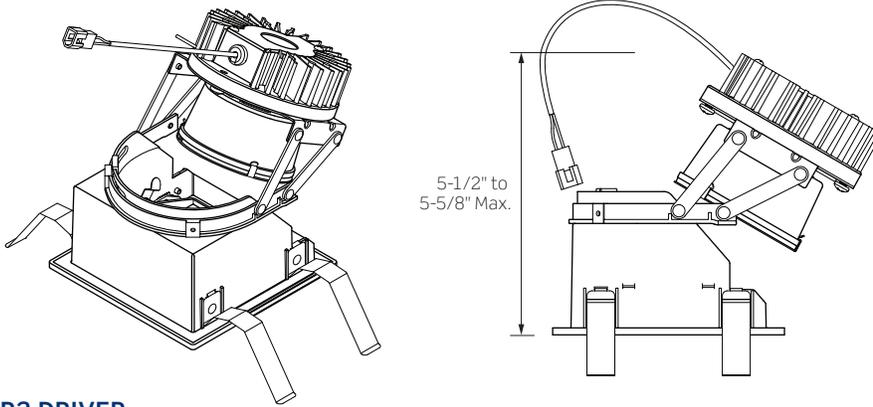
6. Bevel Style Trim available in Black and White Finishes only

ACCESSORY & REPLACEMENT OPTIC ORDERING INFORMATION

Replacement Optics	NC Frame / ICESA Housing Accessories	Trim Accessories
P3OPT-N Narrow Beam P3OPT-M Medium Beam P3OPT-FA Flood Beam	RL-KIT Commercial Mounting Brackets HB-24 27-Inch Flat Hanger Bars for RL-KIT HBC-24 25-Inch C-Channel Hanger Bars for RL-KIT in Grid Ceiling Construction HB-30 T-Bar Hanger Set	3-3/8-Inch Square Tempered Glass Lenses LF52-CL Clear Lens LF52-SL Soft Light Lens LF52-SOL Solite Lens LF52-LS Linear Spread Lens

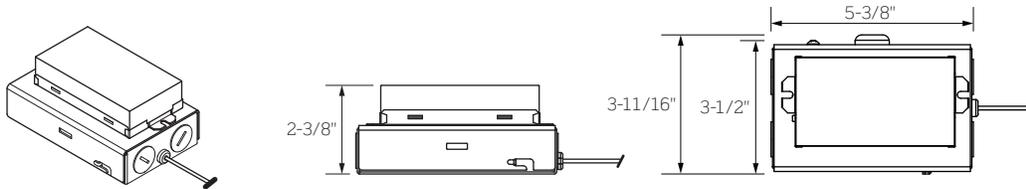
PLUS SERIES | P3SA 3-Inch Square Adjustable Downlight

P3SA MODULE



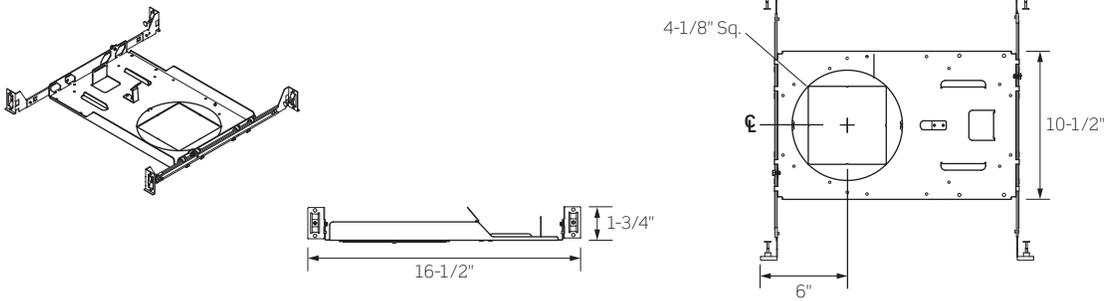
APERTURE	3-1/2" Square
REFLECTOR FLANGE	4-1/2" Square
REFLECTOR FLANGE WIDTH	1/2"
CEILING CUTOUT	4-1/8" Square
CEILING THICKNESS	1/2" to 1"
MODULE CABLE LENGTH	6"
JUNCTION BOX CABLE LENGTH	16"
ADJUSTABILITY RANGE	0° to 40°

P3 DRIVER

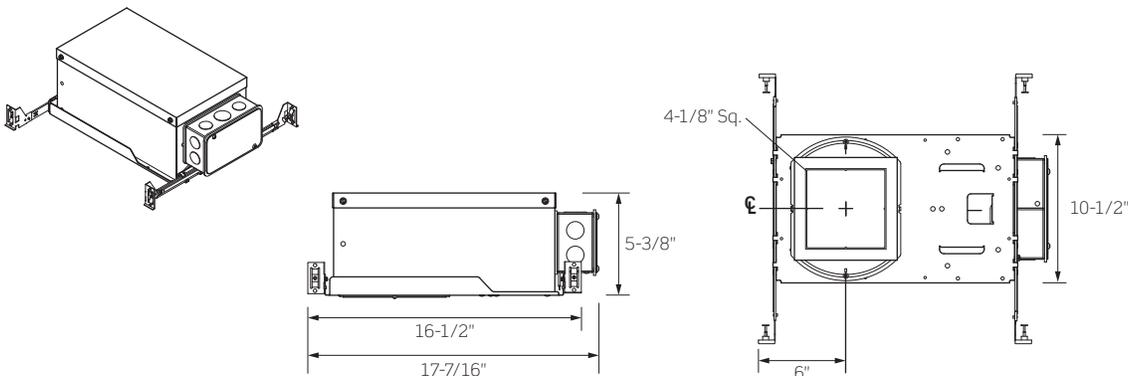


OPTIONAL P3 SQUARE ADJUSTABLE DOWNLIGHT HOUSINGS

LARGE NEW CONSTRUCTION FRAME



LARGE INSULATED CEILING/STOPAIRE™ (ICSA)



PLUS SERIES | P3SA 3-Inch Square Adjustable Downlight

PRODUCT SPECIFICATIONS

LIGHT ENGINE

- 2700K, 3000K, 3500K and 4000K; 80 or 90 CRI
- Color consistency within 2 SDCM

ELECTRICAL/DRIVER

- Driver Options include Universal Voltage 120–277V; 347V optional
- Flicker free Dimming Options include 0–10V, Phase (Forward/Reverse), EldoLED (0–10V and DALI), and Lutron EcoSystem
- All Driver options are field replaceable and accessible from below the ceiling
- Class 2 output with over-voltage, over-current and short circuit protection; >0.9 power factor.

EMERGENCY BATTERY

- 6W Emergency Battery Backup option provides illumination for a minimum duration of 90 minutes
- Certified to UL924 and CSA 222.2 No. 141 Standards for Emergency Lighting
- Lithium-Ion Battery with self-testing and self-diagnostics
- Available with Remote Test Switch Option
- Emergency Battery Backup is accessible from below the ceiling
- Meets Title 20 CEC (California Energy Commission) efficiency standards

OPTICS

- Three (3) beam distributions are available: Narrow (22°), Medium (35°), and Flood (52°)
- Optics are field interchangeable and provide smooth, striation-free beams

TRIMS

- Self-flanged, die-cast Aluminum Angle-Cut Reflectors are available in Silver, White, and Black Painted finishes with and without White Painted Flanges
- A Die-cast Bevel Trim is available in White and Black painted finishes, providing a clean, architectural finish
- For Wet Location applications, Trim must include a lens; all Trim Options will accept up to one (1) Lens. See ordering information for available Tempered Glass Lens options.

INSTALLATION

- **CEILING OPENING:** A ceiling cut-out of 4-1/8-inches square is required
- **CEILING THICKNESS:** Accommodates ceiling thicknesses of 1/2- to 1-inch
- A Safety Tether is included for additional support between the Fixture Module and Junction Box/Driver assembly

CONSTRUCTION

- General Fixture construction is designed for quick, direct install into Non-IC applications
- Optional Non-IC Mounting Frame and Insulated Ceiling/StopAire™ (ICSA) Housing available
- Non-IC Mounting Frame is available for new construction applications; includes pre-installed hanger bars and requires a minimum 3-inch clearance around fixture from insulation material
- ICSA Housing is available for new construction applications; includes pre-installed hanger bars and may be used various applications including IC (direct insulation contact), restrictive air flow, and Chicago Plenum
- Adjustable Downlight Module features adjustability up to 40° when installed in a 1/2- to 1-inch thick ceiling
- Module includes aiming indicator marks in 15° increments for consistent aiming
- Downlight Module Quick-connect design enables easy installation and removal of Universal LED Module; four (4) Spring Steel Supports secure Module into Housing/ceiling.
- LED Module consists of a Die-Cast Aluminum Heat Sink and Die-Cast Aluminum Mounting Ring; four (4) Steel Mounting Springs ensure secure mounting
- Junction Box/Driver assembly can be easily accessed from below the ceiling; when used with optional Frame or Housing, it is secured with a positive spring latch design
- Fixture Module Junction Box includes four (4) 1/2-inch screwdriver pry-out knockouts
- ICSA Housing includes Junction Box with six (6) 1/2-inch knockouts and one (1) 3/4-inch knockout
- Approved for through circuit wiring: Max. eight (8) 12 AWG (4 in/4 out), wiring rated to 90°C

CERTIFICATION

- cCSAus Certified to UL and CSA Standards; suitable for Damp Locations. Suitable for Wet Locations (covered ceiling) when Trim is used with a Lens Accessory.
- Emergency Battery Backup option is cCSAus certified to UL924 and CSA 222.2 No. 141 Standards for Emergency Lighting
- ICSA Housings meet the air leakage requirements per ASTM E283; conforms to Washington State Energy Code (WSEC) for low air infiltration
- ICSA Housings are City of Chicago Environmental Air (CCEA) approved
- ENERGY STAR® Certified
 - Includes all lumen packages, all CCT/CRI options, all beam distributions, all Emergency Battery Backup options (ER & EI) and MVD and MVD2 Driver options
 - 347V, Lutron and eldoLED Driver options are not ENERGY STAR® Certified
- Can be used to comply with CEC Title 24 Part 6 JA8 High Efficacy LED Light Source Requirements
 - Includes all lumen packages, all CCT options with 90+ CRI, all beam distributions, all Emergency Battery Backup options (ER & EI) and Driver options MVD and MVD2
 - 347V, Lutron and eldoLED Driver options are not included

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TRIMS AND TRIM ACCESSORIES

P3STA: Angle-Cut Reflector Trims

- Reflector Trims will accept one (1) LF52 Series 3-3/8-inch Tempered Glass Lens
- For Wet Listing, Lens is required



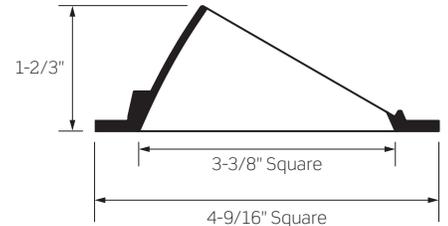
P3STA-SL
Satin Silver



P3STA-WHT
Matte White



P3STA-BLK
Matte Black



P3STA-SLW
Satin Silver with
White Painted Flange

P3STA TRIM ACCESSORIES: Tempered Glass Lenses



LF52-CL
Clear Lens



LF52-SL
Soft light Lens



LF52-SOL
Solite Lens



LF52-LS
Linear Spread Lens

P3STB: Bevel Trims

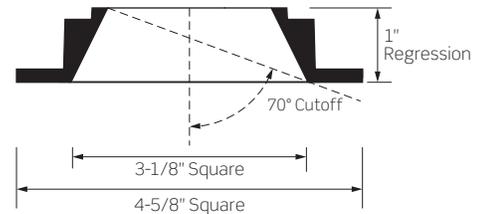
- Bevel Trims will accept one (1) LF51 Series 2-9/16-inch Lens or Louver
- Bevel Style Trim available in Black and White Finishes only
- For Wet Listing, Lens is required



P3STB-WHT
Matte White



P3STB-BLK
Matte Black



P3STB TRIM ACCESSORIES: Tempered Glass Lenses & Louver



LF51-CL
Clear Lens



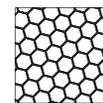
LF51-SL
Soft light Lens



LF51-SOL
Solite Lens



LF51-LS
Linear Spread Lens



FA-65
Honeycomb Louver

MEDIA MULTIPLIERS

Adding Lenses and Louvers effects lumen output values; to estimate lumen output of these combinations, multiply the published photometric results by the following factors:

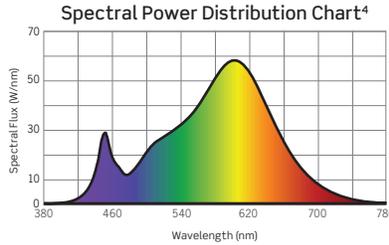
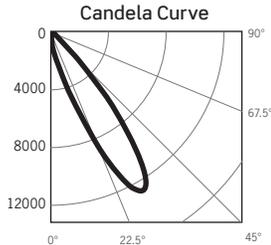
MEDIA MULTIPLIERS				
MEDIA	LF51/LF52-CL	LF51/LF52-LS	LF51/LF52-SL	LF51/LF52-SOL
MULTIPLIER	0.93	0.75	0.73	0.93

PLUS SERIES | P3SA 3-Inch Square Adjustable Downlight Photometry

P3SA-25L30KNMVD/P3STA-SL: Narrow Beam, Satin Silver Reflector

Test No. G25093003

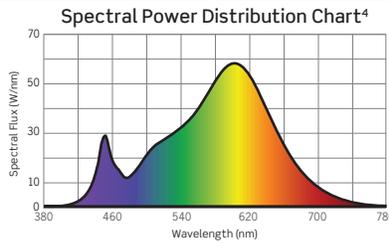
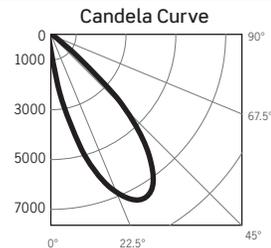
Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 2075.3
 Total Watts@120V: 26.8
 Lumens Per Watt: 77.4
 Center Beam Candle Power: 10791
 Beam Distribution: 21.7°
 Spacing Criterion: 0.35
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3024K
 Designed for 50,000 Hour Lamp Life³



P3SA-25L30KMMVD/P3STA-SL: Medium Beam, Satin Silver Reflector

Test No. G25093004

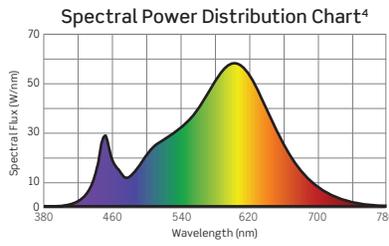
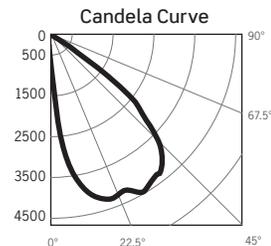
Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 2494.2
 Total Watts@120V: 26.8
 Lumens Per Watt: 93.1
 Center Beam Candle Power: 7215
 Beam Distribution: 35.1°
 Spacing Criterion: 0.58
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3024K
 Designed for 50,000 Hour Lamp Life³



P3SA-25L30KFMVD/P3STA-SL: Flood Beam, Satin Silver Reflector

Test No. G25093005

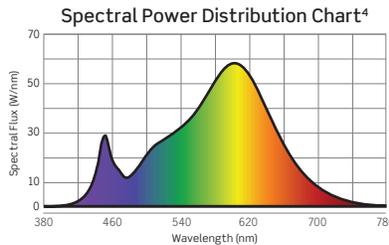
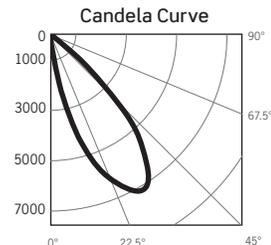
Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 2528.7
 Total Watts@120V: 26.8
 Lumens Per Watt: 94.4
 Center Beam Candle Power: 4328
 Beam Distribution: 51.7°
 Spacing Criterion: 0.87
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3024K
 Designed for 50,000 Hour Lamp Life³



P3SA-25L30KMMVD/P3STB-WHT: Medium Beam, White Bevel Trim

Test No. G25100106

Luminaire aimed 30° from Nadir
 Fixture Delivered Lumens: 2235.0
 Total Watts@120V: 26.8
 Lumens Per Watt: 83.4
 Center Beam Candle Power: 6750
 Beam Distribution: 35.1°
 Spacing Criterion: 0.58
 Color Rendering Index (CRI)¹: 83.3
 Color Temperature (CCT)²: 3024K
 Designed for 50,000 Hour Lamp Life³



1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on Color Temperature (CCT), Color Rendering Index (CRI), Trim Finish, and Wattage. To estimate lumen output of other combinations, multiply the published results by the following factors:

CCT MULTIPLIERS		
CCT	80+ CRI	90+ CRI
2700K	0.95	0.84
3000K	1.00	0.87
3500K	1.02	0.90
4000K	1.04	0.92

OUTPUT MULTIPLIERS				
BEAM	10L	15L	20L	25L
SPOT	0.52	0.72	1.00	N/A
ALL OTHERS	0.39	0.54	0.75	1.00

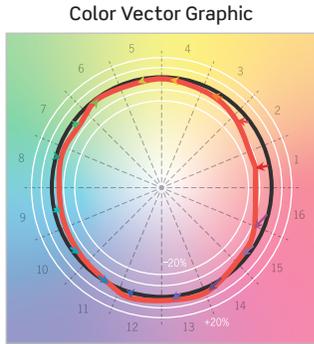
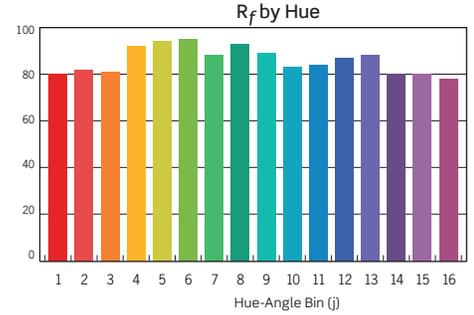
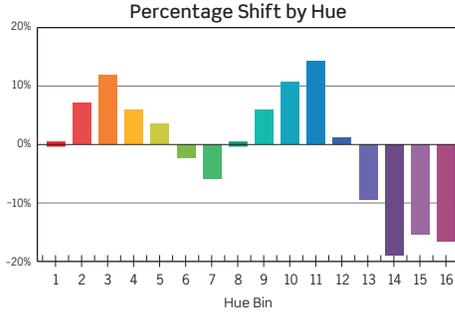
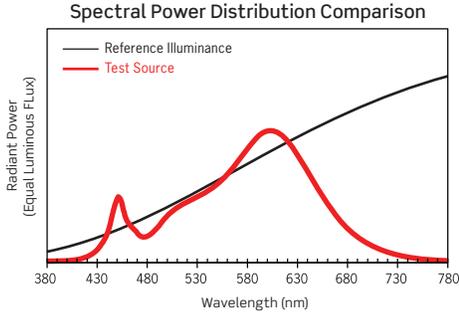
TRIM FINISH MULTIPLIERS		
FINISH	P3STA REFLECT.	P3STB BEVEL
SATIN SILVER	1.00	N/A
MATTE WHITE	1.01	1.00
MATTE BLACK	0.98	0.92

PLUS SERIES | P3SA 3-Inch Square Adjustable Downlight Photometry

TM-30 DATA Colors are for visual orientation purposes only

SATIN SILVER REFLECTOR, 3000K, 80+ CRI

ANSI/IES TM-30-18 Color Rendition Report Test No. S25100803

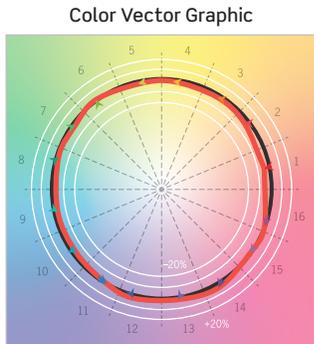
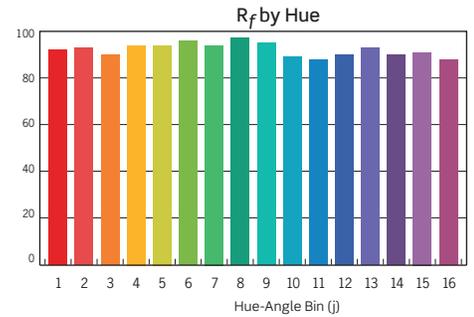
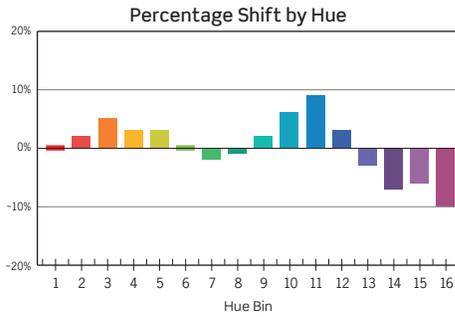
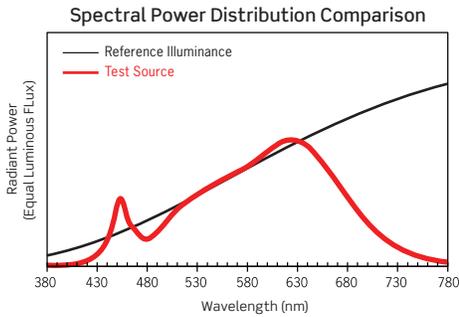


HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	6%	10%	5%	3%	-2%	-5%	0%	5%	9%	12%	1%	-8%	-16%	-13%	-14%
R _f VALUE	80	82	81	92	94	95	88	93	89	83	84	87	88	80	80	78

R _t	86
R _g	95
CCT(K)	3024K
D _{uv}	0.0008
u ^l	0.2494
v ^l	0.5220

SATIN SILVER REFLECTOR, 3000K, 90+ CRI

ANSI/IES TM-30-18 Color Rendition Report Test No. S25100802



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	0%	2%	5%	3%	3%	0%	-2%	-1%	2%	6%	9%	3%	-3%	-7%	-6%	-10%
R _f VALUE	92	93	90	94	94	96	94	97	95	89	88	90	93	90	91	88

R _t	92
R _g	100
CCT(K)	3029K
D _{uv}	0.0001
u ^l	0.2495
v ^l	0.5210