

LTC-3SQD SpectraSync

LITEISTRY 3" SQUARE CYLINDER WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- 3" architectural LED downlight and wall wash cylinder delivering 600 up to 1000 lm
- 4 beam distributions from 0.4 to 1.1 Spacing Criteria
- Quiet reflector appearance with 50° optical cutoff
- SpectraSync™ Color Tuning technology allows the flexibility to tailor CCT to aesthetic preferences
- Available in Dim To Warm (2200K–3000K) or Tunable White (2700K–5000K or 2700K–6500K), 90+ CRI
- Available in Surface, Wall, Pendant, or Cord Mount configurations
- Versatile canopy options for recessed and surface-mounted J-box applications
- Standard with 0–10V dimming to 5%



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Seamless heavy gauge aluminum cylinder body with a clean appearance
- Available in Surface (S), Wall (W), Pendant (P), or Cord (CM) mounting types
- Canopy options include Conduit Canopy (CC), Power Canopy (PC), Power Conduit Canopy (PCC), or Recessed Mount Driver (RMD). (See Dimensions section for details)
- For S, P, or CM mounting with PCC canopy options, use 4" octagonal junction box (by others)
- Wall Mount: Die cast aluminum mounting arm allows direct mounting to standard 4" octagonal or square junction box
- Pendant Mount canopy options allow sloped ceiling up to 35° (5° for RMD)
- Select from 4 standard architectural painted finishes, Brushed Aluminum, or specified custom color

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity spun aluminum reflector, self-flanged
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- LED array with 3 SDCM color consistency
- Dim to Warm (2200K–3000K) or Tunable White (2700K–5000K or 2700K–6500K) options available
- 90+ CRI standard
- Long LED life: L70 at >60,000 hrs (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0–10V dimming to 5%
- Lutron Athena control option available

INSTALLATION

- Light Engine/Trim assembly is mechanically secured and includes a retention cable for ease of installation
- A quick connect is provided for easy maintenance or upgrade
- Recessed Mount Driver (RMD) is accessible from above or below ceiling; assembly mounts with 1/4-20 threaded rod (by others) and requires 6" plenum clearance
- Conduit Canopy options (CC or PCC) allow field selectable conduit entry (up to 4@ 90°) (See Dimensions section)
- Conduit Canopy utilizes a patent pending mounting yoke to secure cylinder to the ceiling surface
- Cord can be cut in the field to custom length
- Standard and Custom Pendant lengths available (specify when ordering)

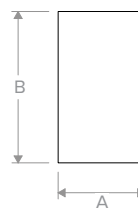
CERTIFICATIONS

- cCSAus certified to UL 1598
- Wall Mount (except CC): Suitable for wet locations
- Pendant Mount (except PCC): Suitable for wet locations under covered ceiling
- Surface, Cord Mount, all CC and PCC and all Wall Wash: Suitable for damp locations
- For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). [See Buy America\(n\) Solutions](#)
- For -TAA Option: Product configurations meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). [See Buy America\(n\) Solutions](#)

WARRANTY

- 5 year warranty

LITEISTRY™



Typical Dimensions and Weights			
Lumen Package	"A" Width (SQ) Inches (mm)	"B" Height Inches (mm)	Weight lbs (kg)
06–10L	4 (102)	7 (178)	7.5 (3.4)

See DIMENSIONS section for complete details

KEY DATA	
Lumen Range	600–1000
Wattage Range	10–18
Efficacy Range (LPW)	52–59*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83–150 (120V)

*Based on Specular, 30K, 90 CRI

LTC-3SQD SpectraSync

LITEISTRY 3" SQUARE CYLINDER WITH COLOR TUNING

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ORDERING GUIDE

Example: LTC-3SQD-CM15WHPCC-10L2230TD9WD-DMTW-SS-WH

CATALOG #	
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LTC-3SQD					
Aperture/Shape/Function		Cylinder Mounting		Canopy Option	
LTC-3SQD	3" Square Downlight Cylinder	S	Surface	Refer to chart on Page 3 for available canopy options based on driver/controls selection	
		W	Wall		
		P	Pendant (Standard)		
			Nominal 18" length from cylinder top to ceiling ⁷		
LTC-3SQDS	3" Square Shallow Downlight Cylinder ⁹	P_	Pendant (Custom)	Standard Canopy ^{3,6}	
			Specify length from cylinder top to ceiling in 1 inch increments from 15 to 60 ⁷	CC Conduit Canopy ^{3,6}	
				PC Power Canopy ^{3,6}	
				PCC Power Conduit Canopy ^{3,6}	
				RMD Recessed Mount Driver ^{3,6}	
		Cord ⁵			
		CM	6ft Clear Cord		
		CMBL	6ft Black Cord		
		CMWH	6ft White Cord		
		CM15	15ft Clear Cord		
		CM15BL	15ft Black Cord		
		CM15WH	15ft White Cord		
				Lumen Output	
				06L 600 Lumens ³	2230TD 2200K-3000K SpectraSync™ Dim to Warm
				10L 1000 Lumens ³	2750T 2700K-5000K SpectraSync™ Tunable White
					2765T 2700K-6500K SpectraSync™ Tunable White

CRI		Distribution		Driver Options		Control Options		Voltage		Reflector Finish		Reflector Color	
9	90+ CRI	NR	Narrow (0.6 SC/38")	DMTW	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% ^{1,3}	AWNR	Lutron Athena Enabled ^{3,10}	Standard 120-277V		Finish not applicable with painted reflectors (WC or BC)		CG	Champagne Gold
		MD	Medium (0.7 SC/48")	DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% ^{2,3}					S	Specular	BL	Black
		WD	Wide (1.0 SC/62")							SS	Semi-Specular	LW	Light Wheat
		XW	Extra Wide (1.2 SC/74")	DM00T	Lutron Athena compatible driver option for SpectraSync™ Tunable White ^{3,10}					MFC	American Matte™	PW	Pewter
										VS	Softglow®	WC	Painted White Cone and Flange
												BC	Painted Black Cone and Flange

Flange Color Options		Exterior Cylinder Color		Options	
Standard matches reflector color		BA	Brushed Aluminum ⁸	BAA	Buy American Act (FAR 52.225-9) Compliant
WT	White Flange ⁴	BZ	Bronze	TAA	Trade Agreements Act (FAR 52.225-11) Compliant
BT	Black Flange ⁴	BL	Matte Black		
		WH	Matte White		
		SVR	Silver		
		CC_	Custom Color (Specify RAL#, Example: CCRAL1073)		
		TCC_	True Custom Color (Specify description, Example: TCC BABY BLUE, Paint chip must be provided to match)		

Notes:

- Must select 2230TD with DMTW or DM00T driver.
- Must select either 2750T or 2765T with DMT or DM00T driver.
- For lumen outputs/configurations available, see chart on page 3.
- WT not needed for WC, BT not needed for BC.
- Cord can be cut in the field to custom length.
- See Dimensions section for canopy configuration details.
- Stem length varies by canopy configuration. See Dimensions section for details.
- Canopy and metal accent color for Brushed Aluminum is Black.
- Available in Wall Mount only.
- DM00T must be selected with AWNR Lutron Athena controls option.

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DRIVER/CONTROL OPTION AVAILABILITY

Driver and Control options listed below are available in the configurations and lumen packages as shown.

For LTC-3SQD:

Driver/Control Option		Cylinder Mounting ¹	Canopy Options ²	06L	10L
DMT	0–10V 5%	W	Standard/CC	●	●
		P/S/CM	PC/PCC/RMD ⁴	●	●
DMTW	0–10V 5%	W	Standard/CC	●	●
		P/S/CM	PC/PCC/RMD	●	●
DM00T / AWNRR	Lutron Athena 0–10V Dim to Off	W	PC/PCC	●	●
		S	RMD	●	●
		P/CM	PC/PCC	●	●

For LTC-3SQDS Shallow Cylinder Body:

Driver/Control Option		Cylinder Mounting	Canopy Options	06L	10L
DMT	0–10V 5%	W	PC/PCC	●	●
DMTW		W	PC/PCC	●	●
DM00T / AWNRR	Lutron Athena 0–10V Dim to Off	W	PC/PCC	●	●

- 1 See Cylinder Mounting chart.
- 2 See Canopy Options chart and Dimensions section for details.
- 3 RMD is Non-IC rated unless noted.
- 4 IC Rated.

Cylinder Mounting	
S	Surface Mount
W	Wall Mount
P	Pendant Mount
CM	Cord Mount

Canopy Options	
(Blank)	Standard Canopy
CC	Conduit Canopy
PC	Power Canopy
PCC	Power Conduit Canopy
RMD	Recessed Mount Driver ³

CONTROLS

SpectraSync™ Color Tuning Technology:

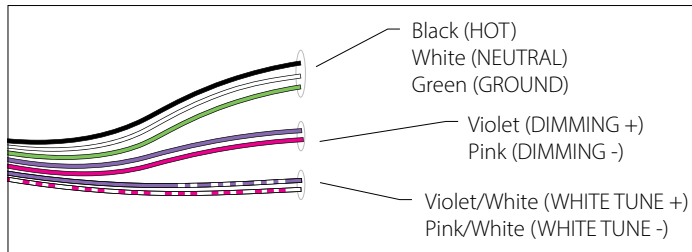
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCH COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Dim to Warm	2200K–3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed
Tunable White	2700K–5000K 2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space
Scheduled White	2700K–5000K 2700K–6500K	Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being

SpectraSync Tunable White

Available in two options: 2750T (2700K–5000K) or 2765T (2700K–6500K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

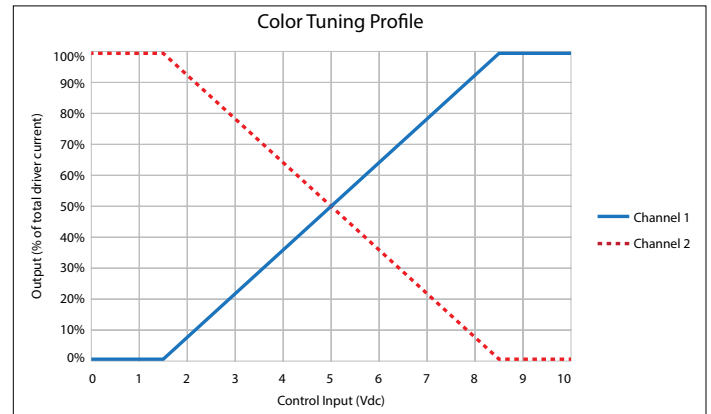


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data


SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, DVSTV, and NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

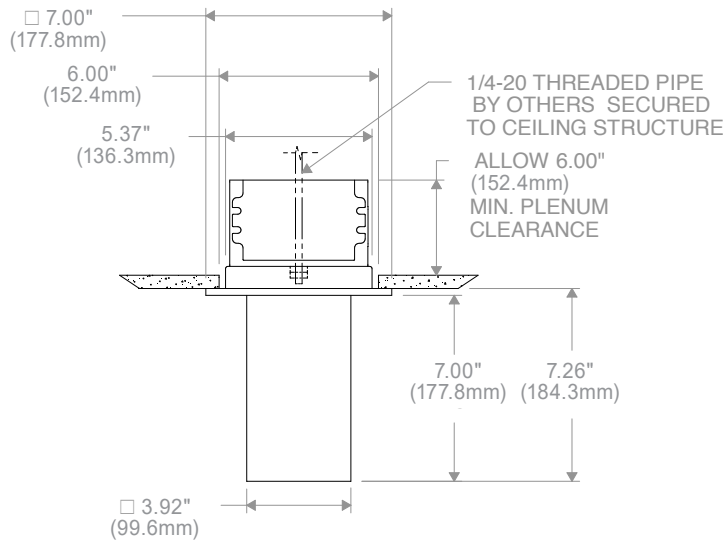
OTHER LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	AWNDR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. ¹	✓	✓	–	–	–	✓	✓	–		A-WN-D01-RF-WH

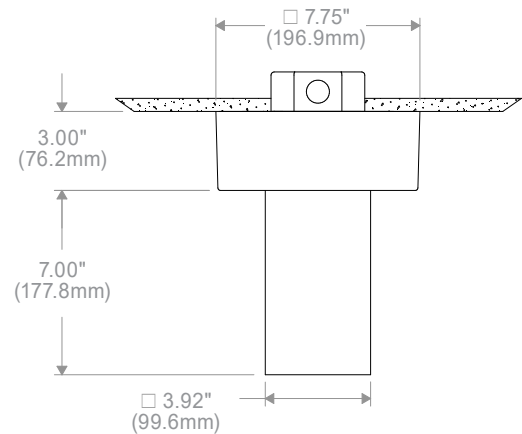
¹ Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

DIMENSIONS

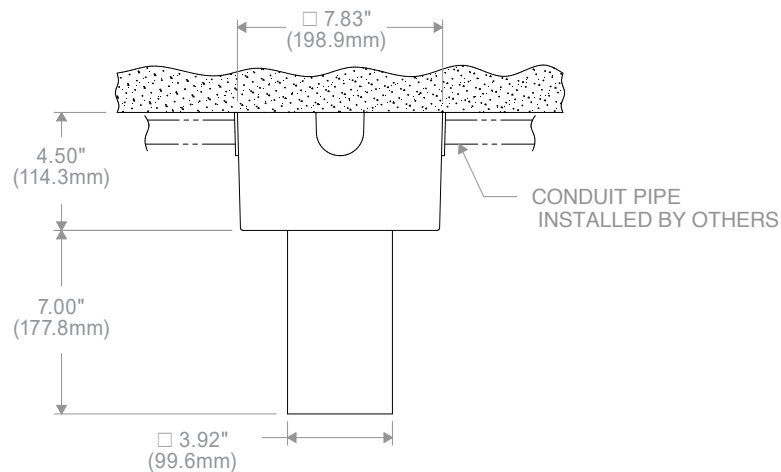
LTC-3SQD SURFACE (S)



**Surface
Recessed Mount Driver
SRMD**



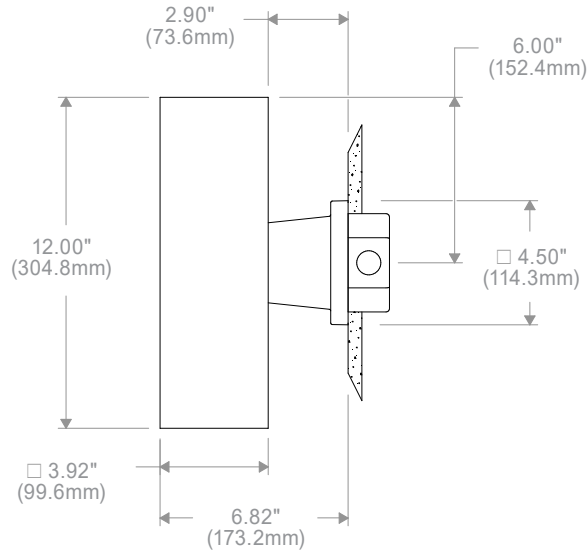
**Surface
Power Canopy
SPC**



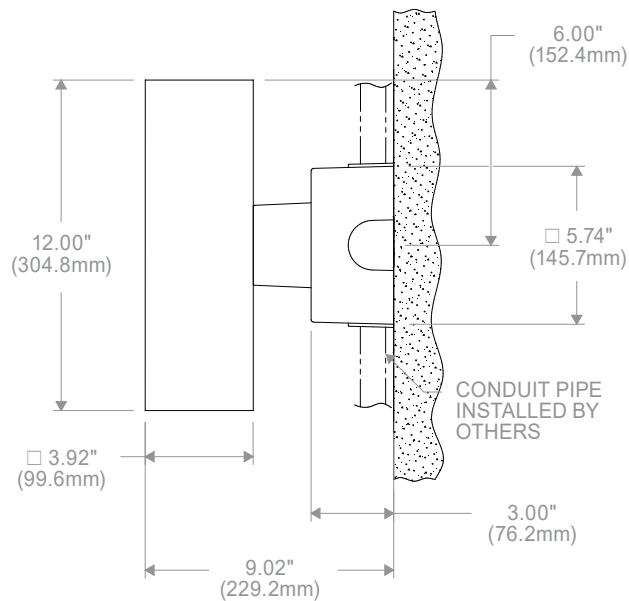
**Surface
Power Conduit Canopy
SPCC**

DIMENSIONS

**LTC-3SQD
(12" CYLINDER BODY)
WALL (W)**



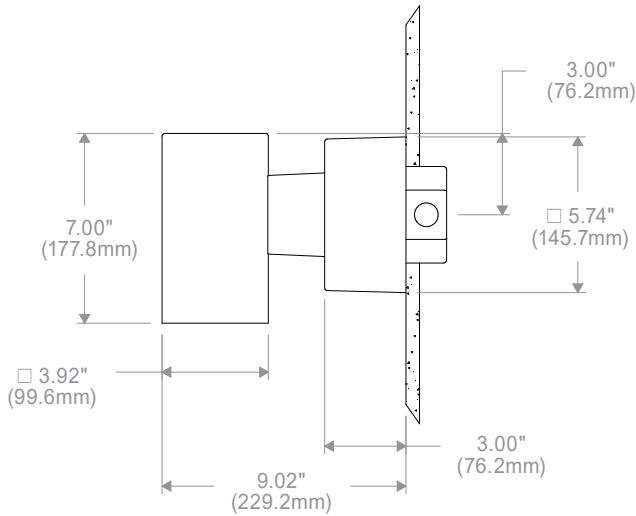
**Wall
Standard Canopy
W**



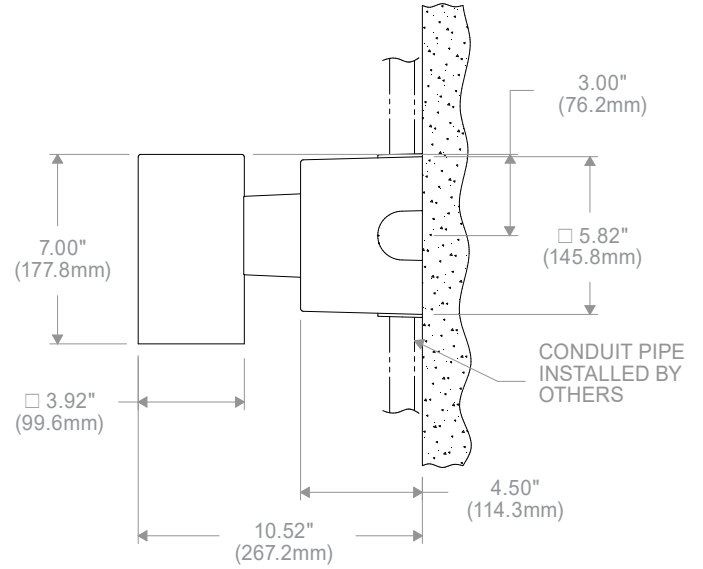
**Wall
Conduit Canopy
WCC**

DIMENSIONS

**LTC-3SQDS
(7" CYLINDER BODY)
WALL (W)**

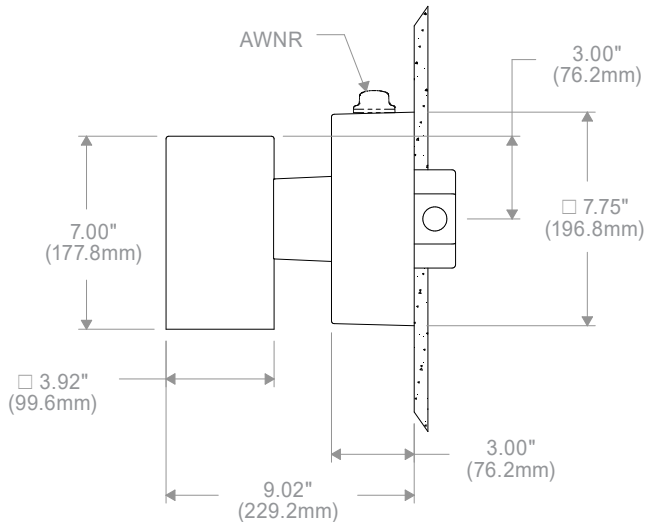


**Wall
Power Canopy
WPC**

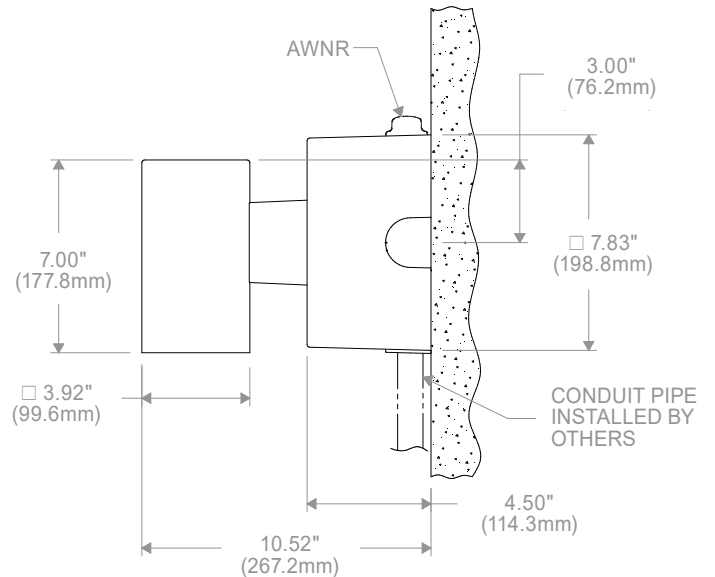


**Wall
Power Conduit Canopy
WPCC**

(FOR CONTROLS OPTIONS ONLY)



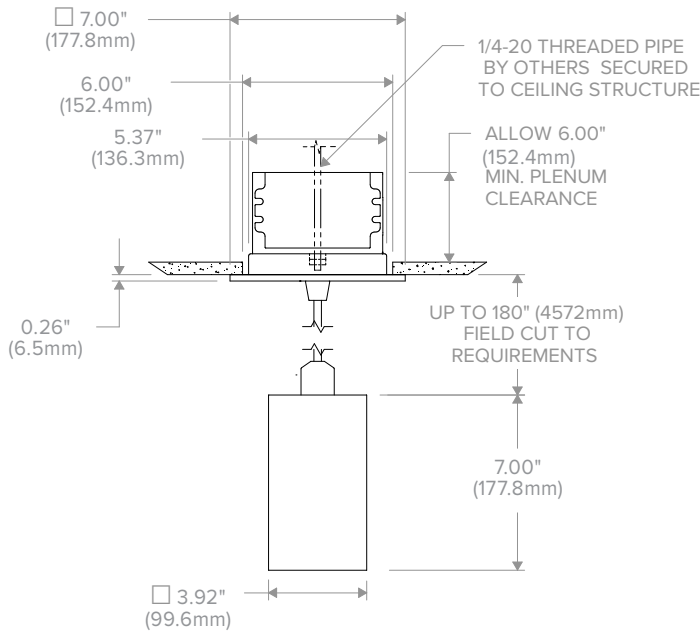
**Wall
Power Canopy
WPC**



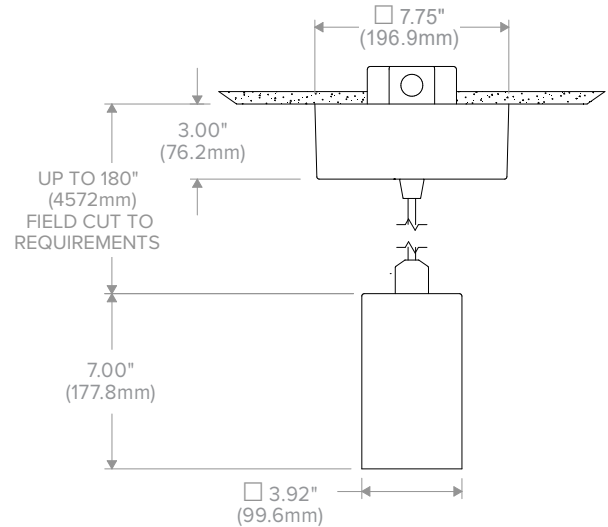
**Wall
Power Conduit Canopy
WPCC**

DIMENSIONS

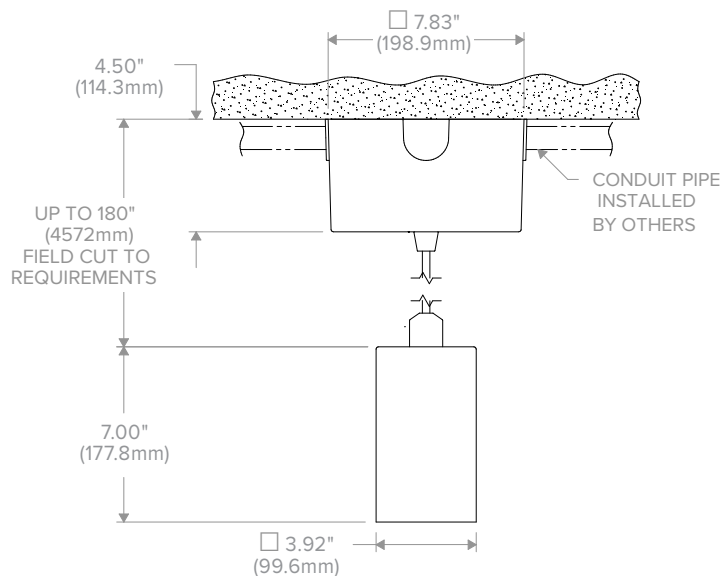
LTC-3SQD CORD (CM)



**Cord
Recessed Mount Driver
CMRMD**



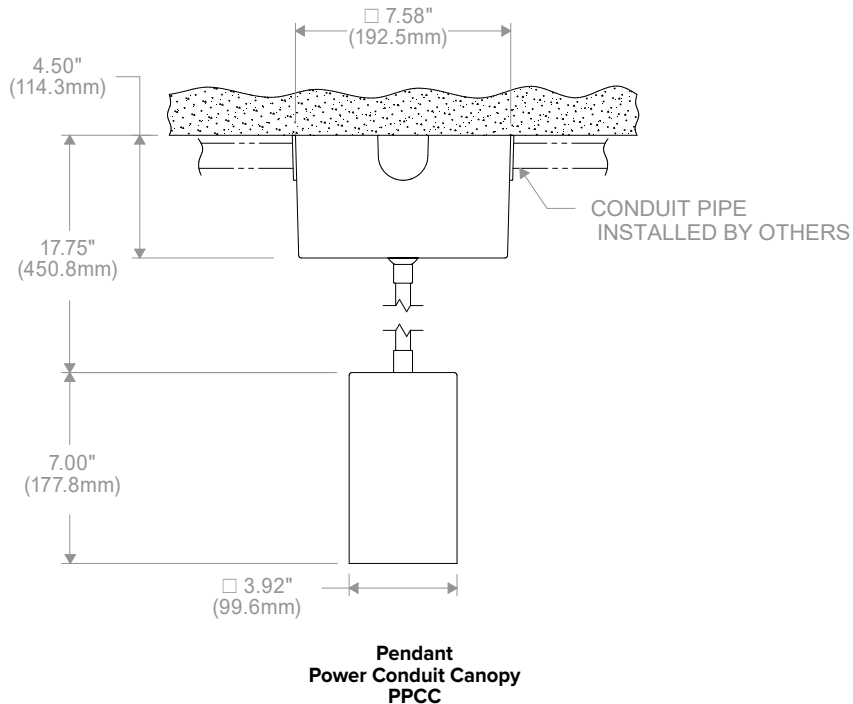
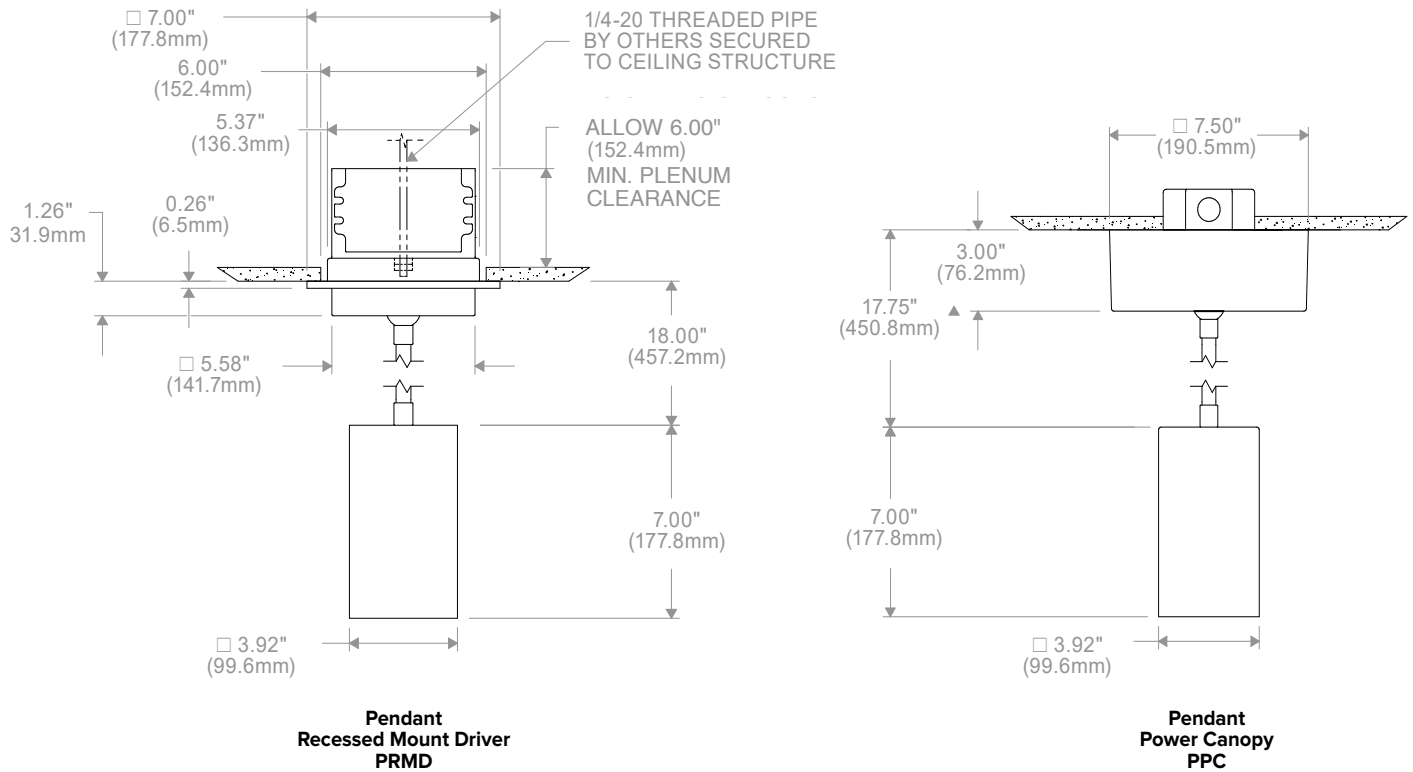
**Cord
Power Canopy
CMPC**



**Cord
Power Conduit Canopy
CMPCC**

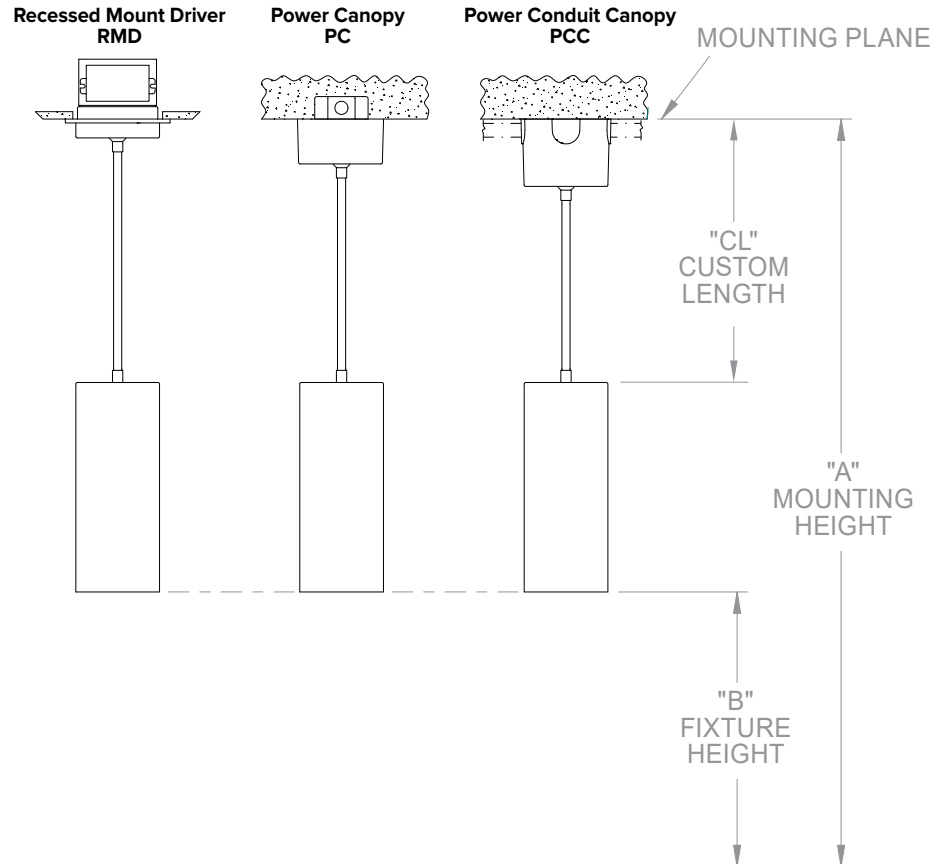
DIMENSIONS

LTC-3SQD PENDANT (P)



DIMENSIONS

PENDANT CUSTOM LENGTH



ILLUMINATED SURFACE

Custom Length (CL) = Mounting Height (A) - Fixture Height (B) - 7" Cylinder

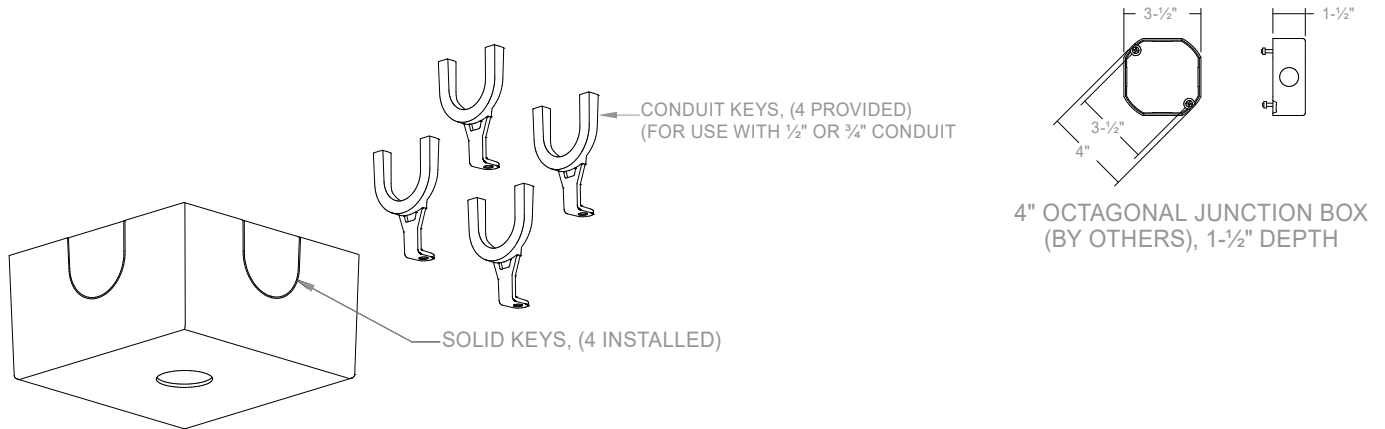
Ordering Example:

A (120") - B (72") - 7" = 41" Custom Length
LTC-3SQD-P41

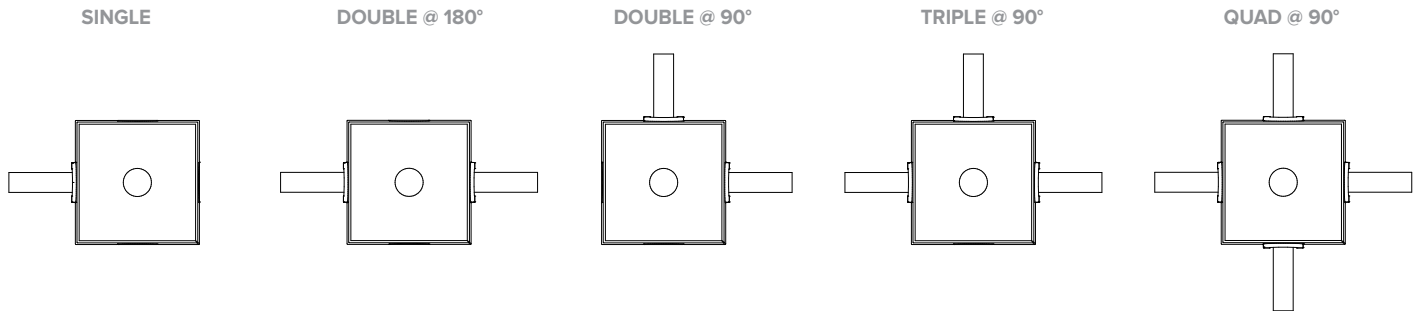
DIMENSIONS

CONDUIT CANOPY DETAILS

CC and PCC Conduit Canopy options come standard with (4) Solid Keys installed and (4) Conduit Keys provided.
Accommodates a 4" octagonal junction box with 1-1/2" depth (by others).



CONDUIT MOUNTING EXAMPLES - FIELD INTERCHANGEABLE



PHOTOMETRY

LTC-3SQD-P-10L2765T9NR-DMT-S-BL

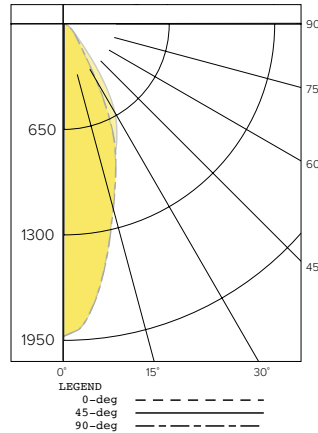
LUMINAIRE DATA

Test No.	R19.00953-C02
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1065
Watts	18.0W
Efficacy	59
Mounting	Pendant
Spacing Criterion	0.6
Beam Angle (FWHM)	38

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	962	90.4
0-60	1057	99.3
0-90	1065	100.0
0-180	1065	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1924	1924	1924
5	1786	1787	1790
15	1160	1137	1167
25	657	763	669
35	175	382	181
45	78	93	81
55	27	29	13
65	4	5	4
75	2	2	2
85	1	1	1
90	0	0	0

LTC-3SQD-P-10L2765T9MD-DMT-S-BL

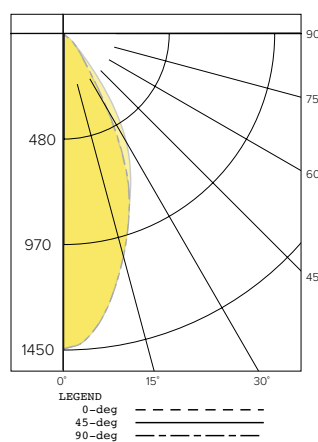
LUMINAIRE DATA

Test No.	R19.00954-C02
Description	1000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1031
Watts	18.0W
Efficacy	57
Mounting	Pendant
Spacing Criterion	0.7
Beam Angle (FWHM)	48

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	919	89.2
0-60	1024	99.3
0-90	1031	100.0
0-180	1031	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1452	1452	1452
5	1394	1393	1394
15	1063	1053	1064
25	669	732	676
35	209	394	216
45	84	103	87
55	30	32	33
65	4	5	4
75	2	2	2
85	1	1	1
90	0	0	0

LTC-3SQD-P-10L2765T9WD-DMT-S-BL

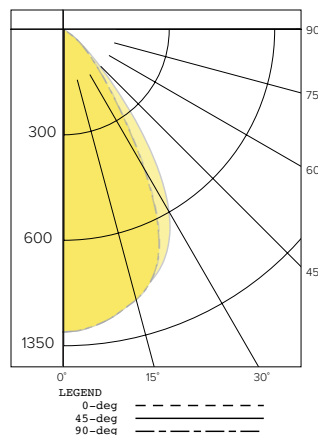
LUMINAIRE DATA

Test No.	R19.01044-C02
Description	1000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	965
Watts	18.0W
Efficacy	54
Mounting	Pendant
Spacing Criterion	1.0
Beam Angle (FWHM)	62

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	817	84.6
0-60	956	99.1
0-90	965	100.0
0-180	965	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1730	1730	1730
5	1713	1711	1711
15	1605	1594	1602
25	1305	1403	1292
35	600	914	580
45	236	304	224
55	87	84	75
65	10	12	9
75	4	5	4
85	1	1	1
90	0	0	0

PHOTOMETRY (CONTINUED)

LTC-3SQD-P-10L2765T9XW-DMT-S-BL

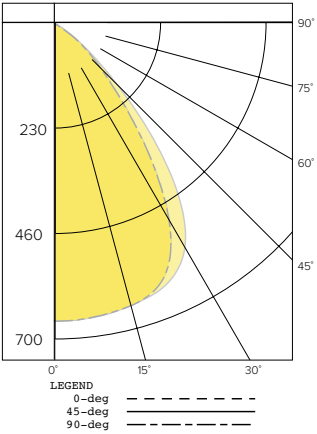
LUMINAIRE DATA

Test No.	R19.00956-C02
Description	1000 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	945
Watts	18.0W
Efficacy	52
Mounting	Pendant
Spacing Criterion	1.2
Beam Angle (FWHM)	74

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1092	83.9
0-60	1293	99.3
0-90	945	100.0
0-180	945	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

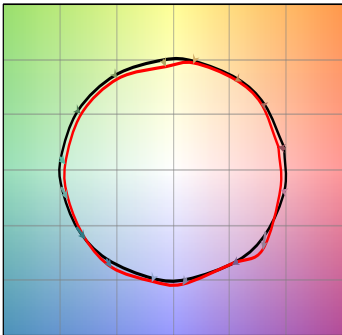
Degree	Candela - 0	Candela - 45	Candela - 90
0	879	879	879
5	882	884	882
15	911	920	911
25	838	937	836
35	476	684	474
45	174	242	174
55	31	47	31
65	5	6	5
75	2	3	2
85	1	1	1
90	0	0	0

— Reference Illuminant — Test Source

TM-30 DATA

SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

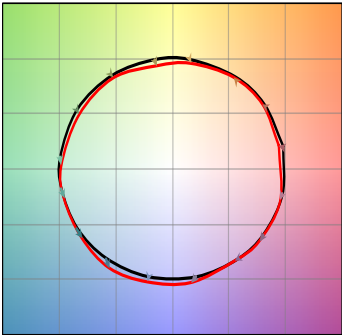


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI



COLOR VECTOR GRAPHIC
4600K, 90+ CRI

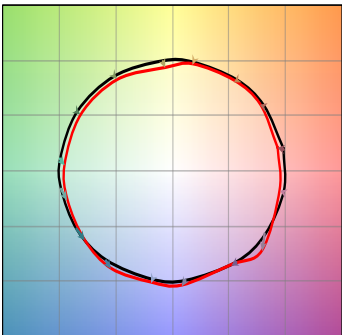


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI



COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
6500K, 90+ CRI

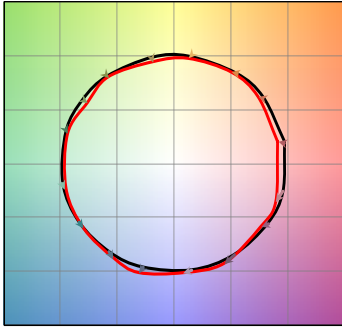


TEST RESULTS - TUNABLE WHITE @ 1000 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	846	941	982
Wattage (W)	17.0	16.8	16.9
Efficacy (lm/W)	50	56	58
R _t	88	89	88
R _g	97	98	97
CCT (K)	2809	4597	6326
D _{uv}	-0.0018	-0.0052	0.0017
x	0.4481	0.3558	0.3163
y	0.4035	0.3502	0.33
CIE R _a	91	95	94
CIE R _g	48	83	73

TM-30 DATA CONTINUED

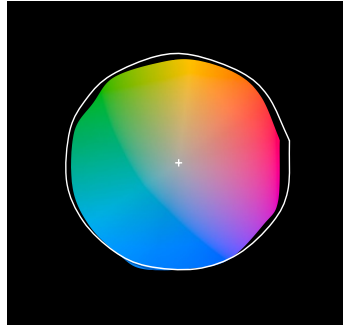
SPECTRASYNCTM DIM TO WARM (2230TD)

COLOR VECTOR GRAPHIC
3000K, 90+ CRI @ 100%

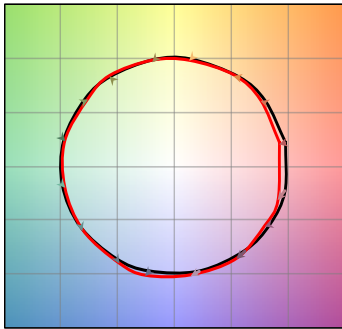


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3000K, 90+ CRI @ 100%



COLOR VECTOR GRAPHIC
2600K, 90 CRI @ 50% DIM

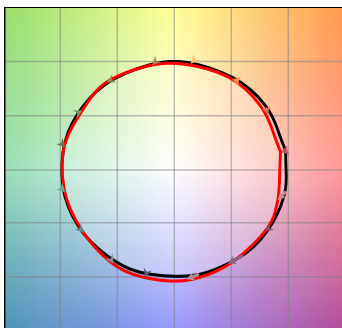


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2600K, 90 CRI @ 50% DIM

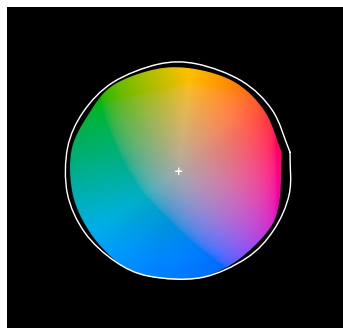


COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2200K, 90 CRI @ 5% DIM



TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS

Value	100%	50% Dim	5% Dim
Luminous Flux (lm)	945	507	34
Wattage (W)	16.94	9.69	2.43
Efficacy (lm/W)	56	52	14
R _f	90	92	92
R _g	97	99	98
CCT (K)	3136	2650	2204
D _{uv}	-0.0016	-0.0016	-0.0005
x	0.4254	0.461	0.5063
y	0.3965	0.4069	0.4168
CIE R _a	92	93	92
CIE R _g	52	60	57

LTC-3SQD SpectraSync

LITEISTRY 3" SQUARE CYLINDER WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ELECTRICAL DATA

DRIVER DATA	
Input Voltage	120–277 V
Input Frequency	50/60 Hz
Power Factor	≥ 0.90
THD	< 20%
EMI Filtering (FCC 47 CFR Part 15)	Class A

ADDITIONAL INFORMATION

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite for your Central Lighting Inverter options. Please contact your local Current representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.