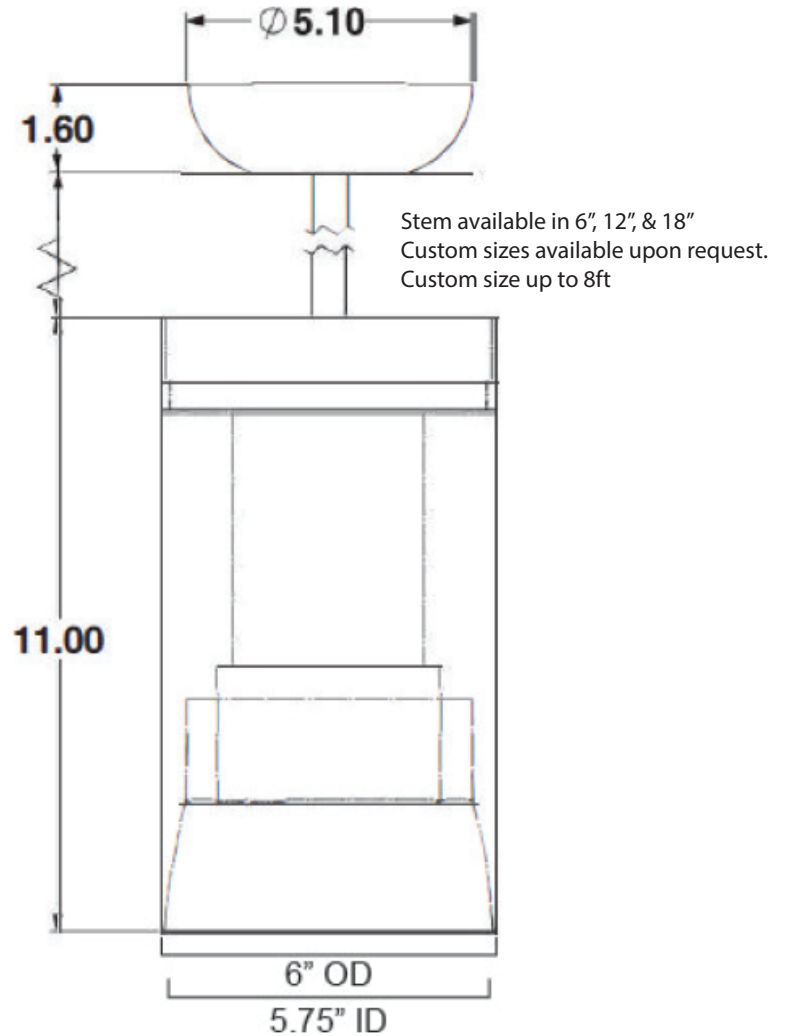
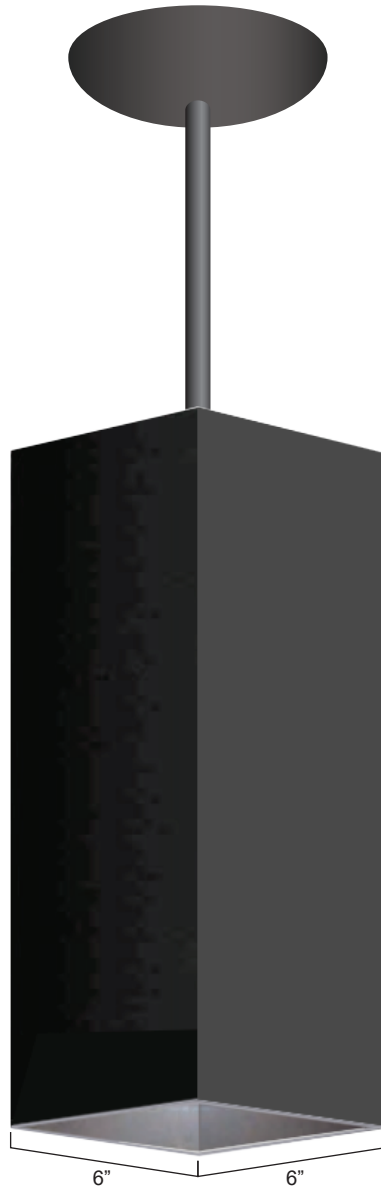


SS6-643-PAR30-PND

6" Stem Mounted Square

Project Name:		Type:	
Catalog Number:		Date:	

**Key Features**

- 6" OD
- Up to 4 accessories
- Remote transformer optoin
- Over 10,000+ fixture custom color finish options
- 100,000+ hr L70 life

LED Source Details

CREE XML2 LED maximum rating 3,000 mA

- Fixture operating milliamps = 700 mA – 1,400 mA
- Operating 23% to 47% of rated value
- Fixture Delivered Lumens = 3500 lumens

Last revised: 02/10/2025

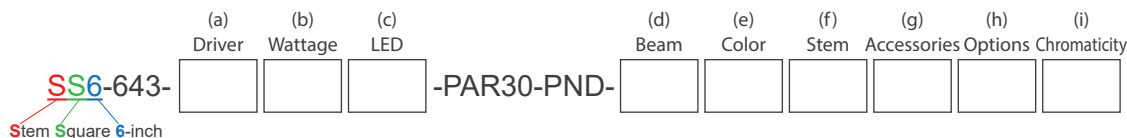
Clarté Lighting

SS6-643-PAR30-PND

6" Stem Mounted Square

Ordering

Project Name:		Type:	
Catalog Number:		Date:	



(a) Driver Options

E	= ON/OFF (Electronic)
D	= MLV 1% Dimming (2 wire)
DC12V	= .01% PWM DC dimming (2 wire)
DC24V	= .01% PWM DC dimming (2 wire)
ED	= Electronic Reverse Phase Dimming 1% (2 wire)
0-10V1	= 0-10V 1% Dimming (4 wire)
RDM DMX	= 16 Bit, 4 Channel (2 wire with CAT5)

(b) Wattage Options

24W (700 milliamps/1600 lumens)	= ON/OFF, 0-10V 1%
27W (700 milliamps/1600 lumens)	= MLV <1% Dimming
36W (1050 milliamps/2400 lumens)	= ON/OFF, 0-10V 1%
42W (1050 milliamps/2400 lumens)	= MLV <1% Dimming
48W (600 milliamps/2000 lumens)	= RDM DMX RGBW
48W (1200 milliamps/3000 lumens)	= Lutron Dimming
51W (1200 milliamps/3000 lumens)	= MLV <1% Dimming
55W (1400 milliamps /3500 lumens)	= ON/OFF, 0-10V 1% or RDM DMX

(c) Lamp Type Options

XLED	= Cree XPL2 LED @ All Wattages
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(d) Beam Options

NSP	= Narrow Spot	NFL	= Narrow Flood
SP	= Spot	FL	= Flood

(e) Fixture Color Options

BLK	= Black
WHT	= White
PWT	= Pewter
Select Custom Color (Review Website for Over 3,300 Color Options)	

(f) Stem Options

S6*	= Stem Size 6"	S18*	= Stem Size 18"
S12*	= Stem Size 12"	CS	= Custom Stem (up to 96")

(g) Optical and Accessory Options

LS	= Lens Softener - +20% increase in beam width. Shields optical face visually. Softens edges of beam.	
LSL	= Linear Spread Lens - Horizontal or vertical beam elongation.	
WFL	= Wide Flood Lens - Wall washing increases the beam by 50% width with elimination of center beam.	
LV	= Louver - Small black hexcel louver eliminates all surface brightness. Creates stronger vertical cut off with -20% beam width.	
CHL	= Cross Hiar Louver	
H	= Halogen - 150K warmer. 2700k to 2550K	
DH	= Dimmed Halogen - 300K warmer. 2700k to 2400K	

(h) Options

120V	= 120VAC 60Hz (Standard)
230V	= 230VAC 50Hz
277V	= 277VAC 60Hz
80+	= CRI over 80
90+	= CRI over 90

(i) Color Temperature Options

White LED	Colored/Themed LED
22K* = 2200 Kelvin (candlelight color)	UV275** = 275 NM UV virus sterilizer
27K = 2700 Kelvin (incandescent color)	UV365*** = 365 NM UV black light
30K = 3000 Kelvin (halogen color)	UV390*** = 390 NM UV black light
35K = 3500 Kelvin (warm incandescent)	Blue*** = 465 - 485 NM wavelength
40K = 4000 Kelvin (cool incandescent)	Green*** = 520 - 535 NM wavelength
50K = 5000 Kelvin (day white)	Amber*** = 585 - 595NM wavelength
65K = 6500 Kelvin (12 noon sunlight)	Red*** = 620 - 630 NM wavelength
	RGBW3K**** = Red, Green, Blue, White
	RGBW4K**** = Red, Green, Blue, White
*1050 mA or less	**500 mA
	***700 mA
	****Must utilize DMX @ 700 mA

SS6-643-PAR30-PND

6" Stem Mounted Square

Project Name:		Type:	
Catalog Number:		Date:	

Housing

- 100% aluminum construction

Electrical

- Optional - 12V AC remote class 2
- 100V, 120V, 230V, 277V or 347V

LED

- 3,000mA maximum rated CREE XPL2 LED
- Operates between 450 to 1200mA
- 15% to 40% of rated mA

LED Driver

- D – 2 wire forward phase .01% LED driver fade to off glow to on
- ED – 2 wire reverse phase 1% LED driver
- DC – 12V or 24V

Optics

- TIR discrete injection molded polycarbonate precision LED optic
- 45-degree vertical cut off

Installation

- IPS Nipple - Unistrut (Not provided)

Certification

- UL Damp Listed – IP 52

Warranty

- 5 Year – ED, 0-10V, DMX and colored LED fixtures
- 7 Year – D and White LED fixtures

Clarté Lighting

SS6-643-PAR30-PND

6" Stem Mounted Square

Photometrics

Project Name:		Type:	
Catalog Number:		Date:	

Wattage & Lumen Output

700 Milliamps - 1800 Lumens
22W

1000 Milliamps - 2500 Lumens
33W

1200 Milliamps - 3100 Lumens
42W

1400 Milliamps - 3400 Lumens
46W

1600 Milliamps - 3900 Lumens
55W

3 Step CREE XPL2 LED

Kelvin-CRI	Multiplier
27K-80+ CRI	1
27K-90+ CRI	0.80
30K-80+ CRI	1
30K-90+ CRI	0.85
35K-80+ CRI	1.05
35K-90+ CRI	0.9
40K-80+ CRI	1.09
50K-80+ CRI	1.09
65K-80+ CRI	1.05

80+ = 84 CRI
90+ = 94 CRI

RGBW V2 Light Output Luminous Flux Clarté Lighting offers 100% of fixtures in optional RGBW3K or RGBW4K

	Line Voltage 600 mA RGBW3K	ABS Light 700 mA RGBW3K	700 mA White 3K
Red	1296	1440	
Green	2511	2790	
Blue	372	414	
White	2106	2340	
Total	6285	6984	2533

*RGBW Fixtures are designed to not operate with all 4 colors at 100% of light for more than 24hrs continuously and suggest operating 55% or less of all 4 colors ON to ensure optimum thermal life of the RGBW LED.

Narrow Spot 12°

2'	11,097 fc	0.4'
4'	2,774 fc	0.9'
6'	1,233 fc	1.3'
8'	694 fc	1.7'
10'	444 fc	2.1'
12'	308 fc	2.6'

55W PAR30 - 3,372 lm

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	44389	
5	27240	1963
10	9044	
15	2798	872
20	854	
25	440	214
30	285	
35	211	135
40	172	
45	133	105
50	102	
55	57	56
60	45	
65	29	25
70	3	
75	1	1
80	1	
85	0	0
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	3049	90.4
0-40	3784	94.4
0-60	3345	99.2
0-90	3372	100.0
40-90	188	5.6
60-90	27	0.8
90-180	0	0.0
0-180	3372	100.0

Narrow Flood 22°

2'	x fc	x.x'
4'	x fc	x.x'
6'	x fc	x.x'
8'	x fc	x.x'
10'	x fc	x.x'
12'	x fc	x.x'

55W PAR30 - 3,841 lm

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	19074	
5	16233	1332
10	9848	
15	5190	1461
20	2626	
25	1289	620
30	632	
35	329	220
40	211	
45	146	114
50	98	
55	57	55
60	42	
65	27	26
70	14	
75	9	10
80	6	
85	2	3
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	3413	88.8
0-40	3633	94.6
0-60	3802	99.0
0-90	3840	100.0
40-90	208	5.4
60-90	39	1.0
90-180	0	0.0
0-180	3841	100.0

Flood

2'	fc	'
4'	fc	'
6'	fc	'
8'	fc	'
10'	fc	'
12'	fc	'

55W PAR30 - 2,919 lm

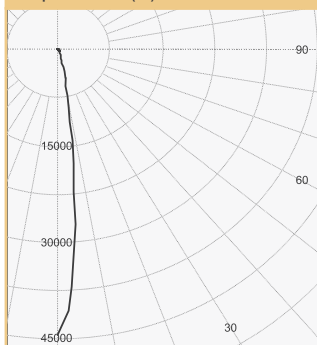
Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	6451	
5	5949	529
10	4754	
15	3424	944
20	2326	
25	1552	720
30	1033	
35	639	405
40	368	
45	227	181
50	145	
55	88	83
60	58	
65	39	39
70	21	
75	14	15
80	9	
85	4	4
90	0	

Zonal Flux and Percentages

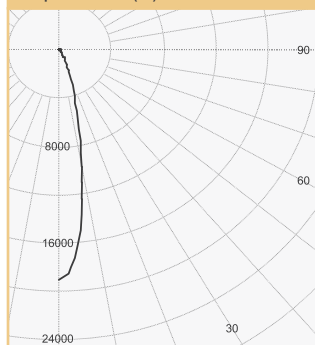
Zone	Flux (lm)	%Luminaire
0-30	2193	75.1
0-40	2598	89.0
0-60	2862	98.0
0-90	2919	100.0
40-90	321	11.0
60-90	58	2.0
90-180	0	0.0
0-180	2919	100.0

All planes - Solid (cd)



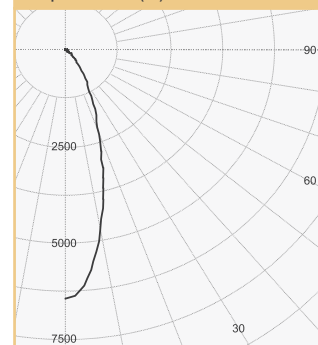
(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

Clarté Lighting

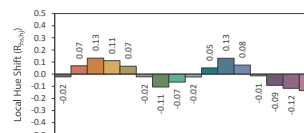
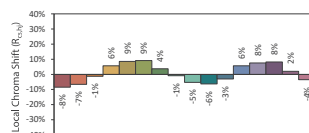
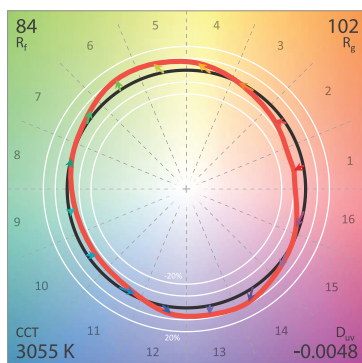
SS6-643-PAR30-PND

6" Stem Mounted Square

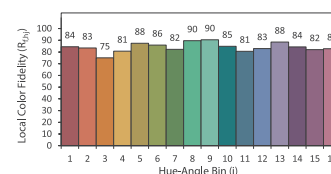
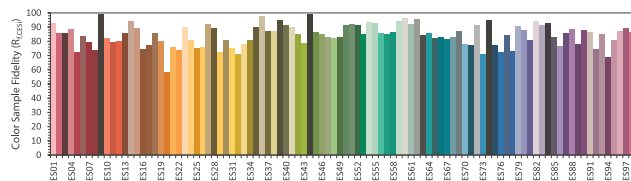
TM-30-18 Color Metrics

Project Name:		Type:	
Catalog Number:		Date:	

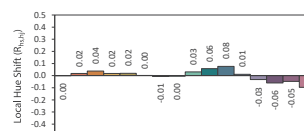
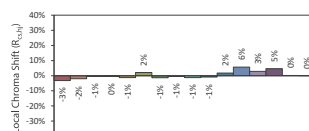
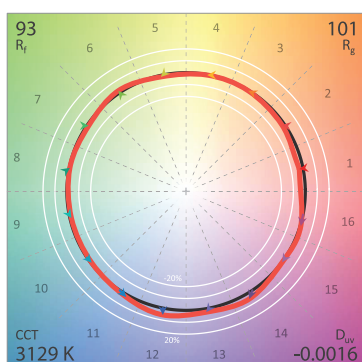
Clarté Lighting 3000K 80+ CRI Color Metrics



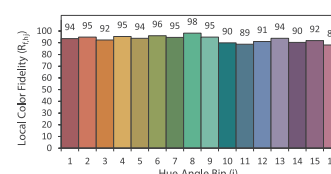
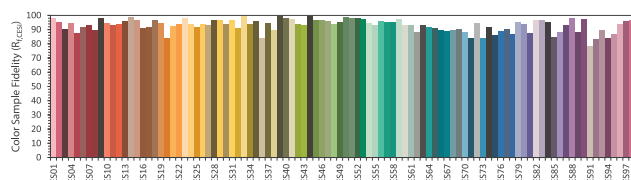
CIE 13.3-1995 (CRI)
R _a 86
R _g 29



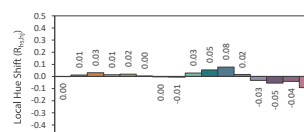
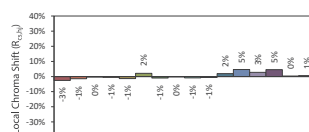
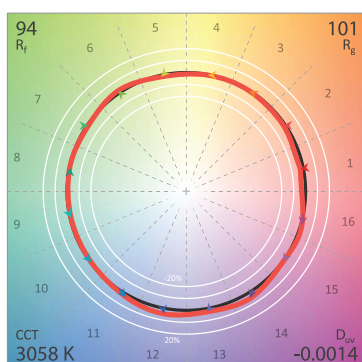
Clarté Lighting 3000K 90+ CRI Color Metrics



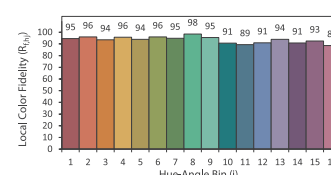
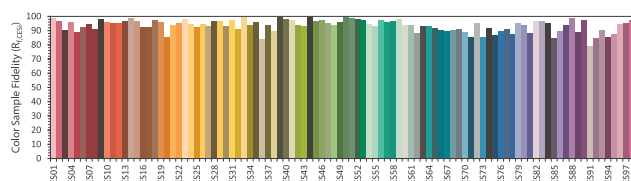
CIE 13.3-1995 (CRI)
R _a 95
R _g 74



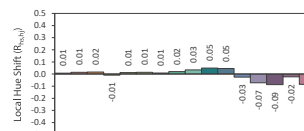
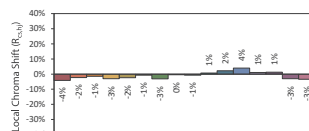
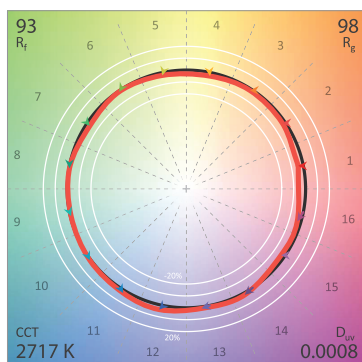
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



CIE 13.3-1995 (CRI)
R _a 96
R _g 79



Clarté Lighting 3000K 90+ CRI Dimmed Halogen Lens (DH) Color Metrics



CIE 13.3-1995 (CRI)
R _a 95
R _g 64

