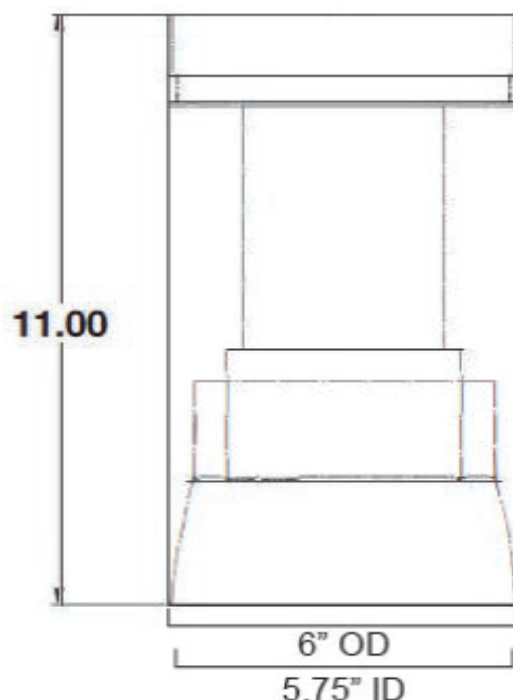


Clarté Lighting
SS6-642-PAR30
 6" Surface Mounted Square

Features

Project Name:		Type:	
Catalog Number:		Date:	



Key Features

- 6" OD
- Up to 4 Accessories
- Remote Transformer Option
- Over 6,500 Color Options Available
- 100,000+ hr L70 Life
- **See Page 3 for additional options**

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 = 3,870 lumens

Last revised: 09/14/2026

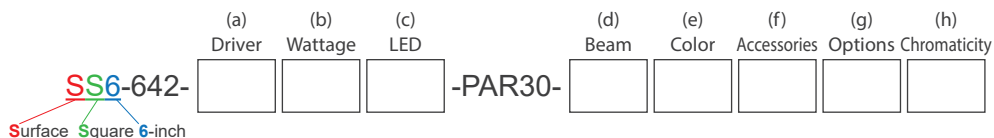
Clarté Lighting

SS6-642-PAR30

6" Surface Mounted Square

Ordering

Project Name:		Type:	
Catalog Number:		Date:	



(a) Driver Options

D	= .01% Magnetic Low Voltage Dimming (2 wire)
E	= ON/OFF (Electronic)
12V AC	= .01% PWM AC dimming (2 wire) remote magnetic 12V AC transformer
24V DC	= .01% PWM DC dimming (2 wire) 24V DC power supply
ED	= 1% Electronic Reverse Phase Dimming (2 wire)
0-10V1	= 1% 0-10V Dimming (4 wire)
DALI2	= .01% Digital Addressable Lighting Interface V2
RDM DMX	= .001% 16 Bit, 4-Channel Dimming (2 wire with CAT5)
ABS	= Absolute Light .001% Dimming (use with RGBW)
ABSX	= DMX Absolute Light .001% RGBW dimming

(b) Wattage Options

21W (700mA - 1890 lumens)	= ON/OFF, 0-10V 1%
33W (850mA - 1890 lumens)	= MLV <1% Dimming
33W (1100mA - 1890 lumens)	= ON/OFF, 0-10V 1%
38W (1050mA - 3420 lumens)	= MLV <1% Dimming
41W (1400mA - 3690 lumens)	= DMX White
43W (1400mA - 3870 lumens)	= ON/OFF, 0-10V 1%
54W (700mA - 4860 lumens)	= Absolute Light
55W (500mA per LED - 4950 lumens)	= DMX RGBW

(c) Lamp Type Options

XLED	= Cree XPL2 LED @ All Wattages
------	--------------------------------

(d) Beam Options

NSP	= Narrow Spot 12°	SP	= Spot 19°
NFL	= Narrow Flood 22°	FL	= Flood

(e) Fixture Color Options

BLK	= Black	WHT	= White
PWT	= Pewter	CC*	= Custom Color

*Custom Color (Review Website for Over 6,500 Color Options)

(f) 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	

(g) Options

120V	= 120VAC 60Hz (Standard)
230V	= 230VAC 50Hz
277V	= 277VAC 60Hz
SCM1	= Side Conduit Mount In (3/4" In)
SCM2	= Side Conduit Mount In and Out (3/4" In and Out)
80+	= CRI over 80
90+	= CRI over 90
BD	= Barn Doors
ES	= Extended Snoot 1" Extension, 2" Regress

(h) Color Temperature Options

White LED		Colored/Themed LED	
22K*	= 2200 Kelvin (candlelight color)	UV365**	= 365 NM UV black light
27K	= 2700 Kelvin (incandescent color)	UV390**	= 390 NM UV black light
30K	= 3000 Kelvin (halogen color)	Blue**	= 465 - 485 NM wavelength
35K	= 3500 Kelvin (warm incandescent)	Green**	= 520 - 535 NM wavelength
40K	= 4000 Kelvin (cool incandescent)	Amber**	= 585 - 595NM wavelength
50K	= 5000 Kelvin (day white)	Red**	= 620 - 630 NM wavelength
65K	= 6500 Kelvin (12 noon sunlight)	Photo Red***	= 650 - 670 NM wavelength
		RGBW3K***	= Red, Green, Blue, White
		RGBW4K***	= Red, Green, Blue, White

*1050 mA or less

**700 mA

***Must utilize DMX @ 600 mA

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
- 12V AC – (2 wire) remote magnetic 12V AC transformer
- 24V DC – (2 wire) 24V DC power supply
- ED – 1% Electronic Reverse Phase Dimming (2 wire)
- 0-10V1 – 1% 0-10V Dimming (4 wire)
- DALI2 – .01% Digital Addressable Lighting Interface V2
- RDM DMX – .001% 16 Bit, 4-Channel Dimming (2 wire with CAT5)
- ABS – Absolute Light .001% Dimming (use with RGBW)
- ABSX – DMX Absolute Light .001% RGBW dimming

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

SS6-642-PAR30

6" Surface 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

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	105
35K-90+ CRI	0.9
40K-80+ CRI	109
50K-80+ CRI	109
65K-80+ CRI	105

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'

46W PAR30 - 3,372 lm

Spot 19°

2'	4,301 fc	0.7'
4'	1,075 fc	1.4'
6'	478 fc	2.1'
8'	269 fc	2.8'
10'	172 fc	3.5'
12'	119 fc	4.2'

46W PAR30 - 3,226 lm

Narrow Flood 23°

2'	3,200 fc	0.8'
4'	800 fc	1.7'
6'	356 fc	2.5'
8'	200 fc	3.3'
10'	128 fc	4.1'
12'	89 fc	5.0'

46W PAR30 - 3,126 lm

Flood 32°

2'	1,613 fc	1.1'
4'	403 fc	2.3'
6'	179 fc	3.4'
8'	101 fc	4.5'
10'	65 fc	5.7'
12'	45 fc	6.8'

46W PAR30 - XXXX 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	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	17204	
5	14400	1175
10	8520	
15	4164	1184
20	1951	
25	921	451
30	476	
35	287	188
40	205	
45	163	126
50	125	
55	68	68
60	49	
65	36	32
70	8	
75	2	2
80	1	
85	0	0
90	0	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	12801	
5	11202	950
10	7615	
15	4219	1171
20	2068	
25	1034	502
30	575	
35	356	231
40	249	
45	194	149
50	144	
55	85	81
60	59	
65	42	39
70	12	
75	2	3
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

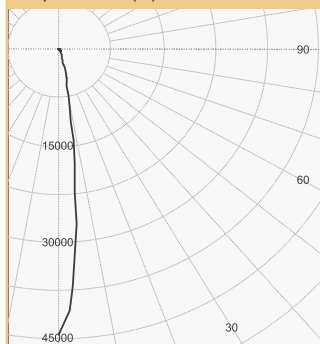
Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	2810	87.1
0-40	2997	92.9
0-60	3191	98.9
0-90	3226	100.0
40-90	228	7.1
60-90	35	1.1
90-180	0	0.0
0-180	3226	100.0

Zonal Flux and Percentages

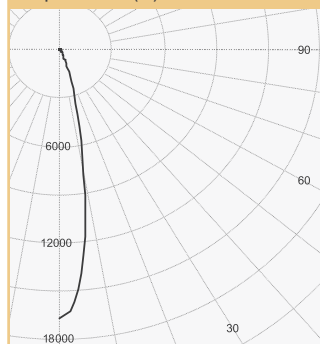
Zone	Flux (lm)	%Luminaire
0-30	2623	83.9
0-40	2854	91.3
0-60	3084	98.6
0-90	3126	100.0
40-90	273	8.7
60-90	43	1.4
90-180	0	0.0
0-180	3126	100.0

All planes - Solid (cd)



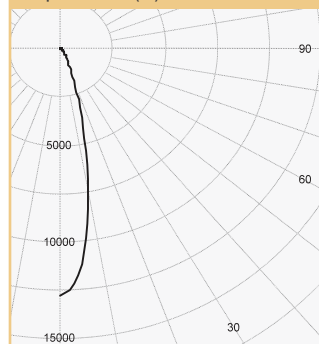
(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

Clarté Lighting

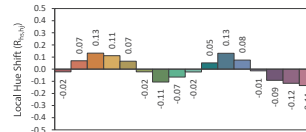
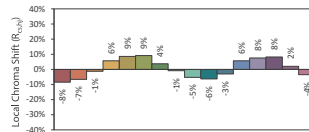
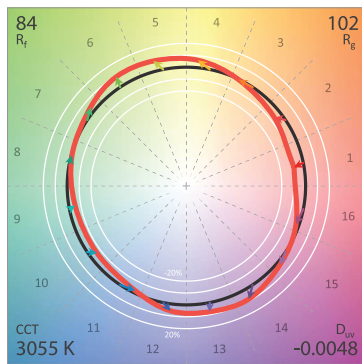
SS6-642-PAR30

6" Surface Mounted Square

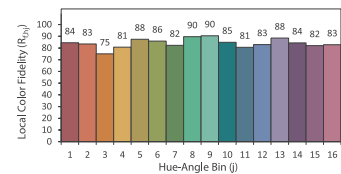
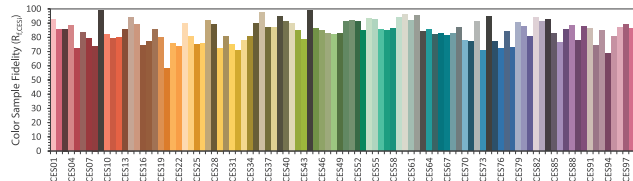
TM-30-18 Color Metrics

Project Name:		Type:	
Catalog Number:		Date:	

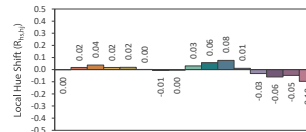
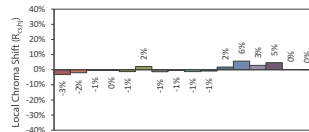
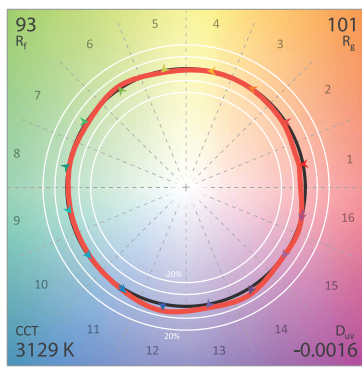
Clarté Lighting 3000K 80+ CRI Color Metrics



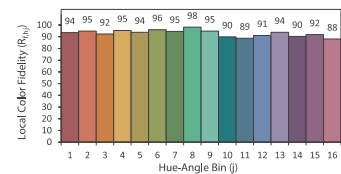
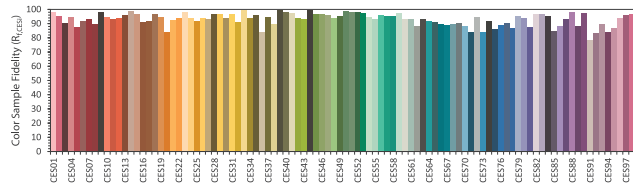
CIE 13.3-1995
(CRI)
 R_a 86
 R_g 29



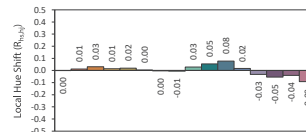
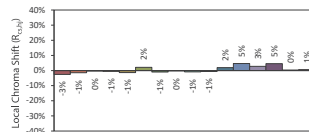
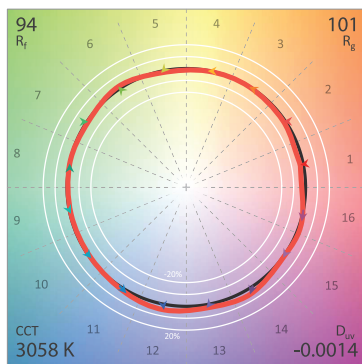
Clarté Lighting 3000K 90+ CRI Color Metrics



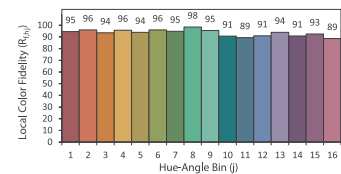
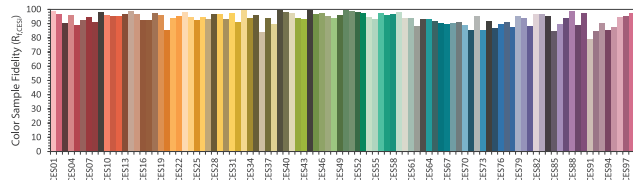
CIE 13.3-1995
(CRI)
 R_a 95
 R_g 74



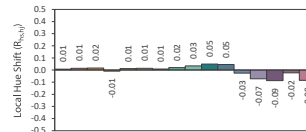
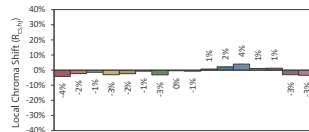
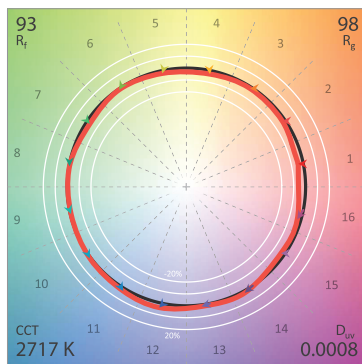
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



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

