

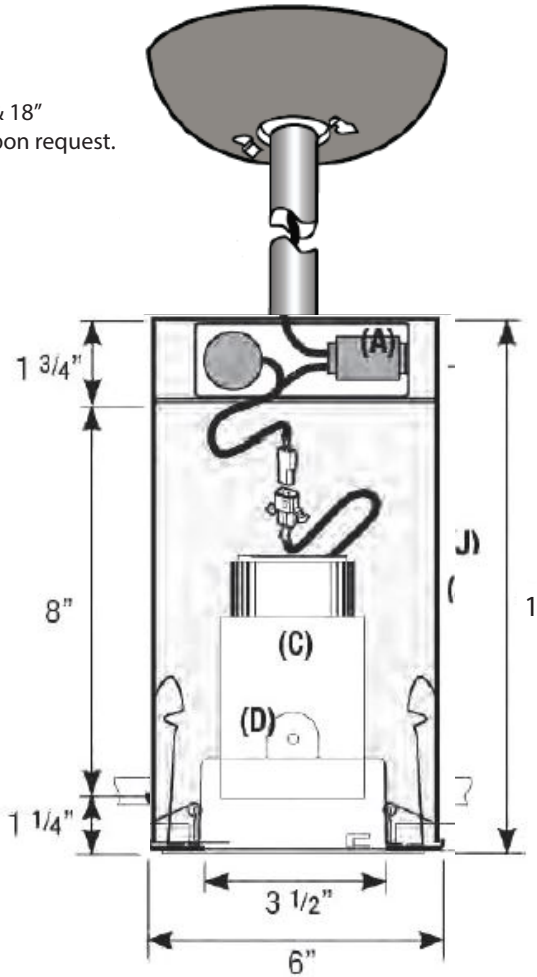
Clarté Lighting
SR6-647-PAR20-PND
 6" Stem Mounted Cylinder

Features

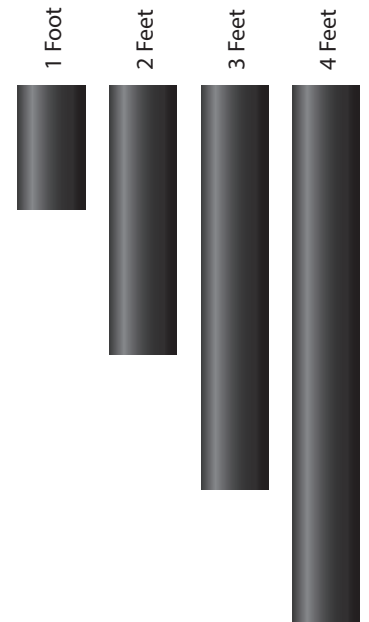
Project Name:		Type:	
Catalog Number:		Date:	



Stem available in 6", 12", & 18"
 Custom sizes available upon request.
 Custom size up to 8ft



Fixture Available in Longer Lengths.
 Custom lengths available upon request.



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 XPL2 LED maximum rating = 3,000mA
- Fixture operating milliamp range = 700mA to 1200mA.
 - Operating 23% to 40% of rated value
 - Fixture wattage range = 16W to 28W
 - Fixture delivered lumens = 1,200 to 2,000 lumens

Last revised: 01/28/2025

Clarté Lighting

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6" Stem Mounted Cylinder

Ordering

Project Name:		Type:	
Catalog Number:		Date:	

(a) Driver	(b) Wattage	(c) LED	(d) Beam	(e) Snoot	(f) Length	(g) Mounting Accessories	(h) Options	(i) Options	(j) Chromaticity
SR6-647-			-PAR20-PND-						

Surface Round 6Inch

(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)
DALI2	= .01% Digital Addressable Lighting Interface V2
0-10V**	= Remote mount 4 wire 0-10V LED driver single fixture
0-10V 2	= Remote mount 4 wire 0-10V driver for up to 2 fixtures
0-10V 3	= Remote mount 4 wire 0-10V driver for up to 3 fixtures
0-10V 4***	= Remote mount 4 wire 0-10V driver for up to 4 fixtures
0-10V MRI****	= 0-10V Dimming with 100bd Filter
RDM DMX	= 16 Bit, 4 Channel (2 wire with CAT5)
ABS	= Absolute Light .001% Dimming (use with RGBW)
ABSX	= DMX Absolute Light .001% RGBW dimming

*MLV power supply is intended for use with forward phase SCR or Triac dimmers.

*Do not use with relays or toggle switches, do not use with reverse phase dimmers.

**Remote single 0-10V LED driver up to 18' away 18ga and 50' away 12ga

***Remote 0-10V LED driver operates up to 4 fixtures up to 18' away 18ga and 50' away 12ga

****Operates up to 4 recessed LED light fixtures for MRI room installation with remote LED driver

(b) Wattage Options

16W (1200 Lumens)	= ON/OFF
18W (1200 Lumens)	= MLV <1% Dimming
24W (1800 Lumens)	= ON/OFF
28W (2000 Lumens)	= MLV <1% Dimming, ON/OFF, 0-10V 1%, Lutron, DMX

(c) Lamp Type Options

XLED = Cree XPL2 LED @ All Wattages

(d) Beam Options

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

(e) Snoot Color Options

BLKS	= Black Snoot
WHTS	= White Snoot
PWTS	= Pewter Snoot

(f) Fixture Length

1F	= 1 Foot Long	2F	= 2 Feet Long
3F	= 3 Feet Long	4F	= 4 Feet Long
CL	= Custom Length		

(g) Mounting Options

S6*	= Stem Size 6"	S18*	= Stem Size 18"
S12*	= Stem Size 12"	CS	= Custom Stem
CA	= Custom Length Aircraft Cable		

*Track only 6", 12", or 18" (up to 96" for flat canopy)

(h) 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	

(i) Options

RMT14	= 14Watt 12V AC MLV Step Down Transformer
RMT60	= 60Watt 12V AC MLV Step Down Transformer
RMT150	= 150Watt 12V AC MLV Step Down Transformer
RMT300	= 300Watt 12V AC MLV Step Down Transformer
12V	= DC
24V	= DC
120V	= 120VAC 60Hz (Standard)
230V	= 230VAC 50Hz
277V	= 277VAC 60Hz
347V	= 347VAC 60Hz
EMG	= 90min Emergency Back-Up Battery
TB	= DMX 5-pin Plug-in Terminal Block
RMT	= Remote transformer with remodel trim
80+	= CRI over 80
90+	= CRI over 90

*Eliminate the need to install new 12V AC step down transformer, Clarté LED trim installs like changing a lamp.

(j) 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

SR6-647-PAR20-PND

6" Stem Mounted Cylinder

Project Name:		Type:	
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Housing

- 100% aluminum construction

Housing Finish

- White, black or pewter power coat finish
- 3300+ Custom Power Coat Finishes

Electrical

- Optional - 12V AC remote class 2
- Optional - 12V or 24 DC remote class 2
- 100V, 120V, 230V, 277V or 347V

LED

- 3,000 maximum milliamp rated CREE LED
- Operates between 450 to 1200 milliamps
- L70 life = 100,000 hr.+

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
- 0-10V – 3 wire 1% LED driver
- Absolute Light – Remote mount class 2 48V din rail .001% LED system
- 16-bit RMD DMX – 65,536 dimming steps fade to off glow to on

Optics

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

Trim

- Hydro form reflector - no spin marks

Trim Finish

- Specular Aluminum Anodized
- Matt Aluminum Anodized

Level Plane and Trimless Installation

- Available in trimless ½" recessed, trimless and level plane

Certification

- UL Damp Listed – IP 52

Warranty

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

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6" Stem Mounted Cylinder

Photometrics

Project Name:		Type:	
Catalog Number:		Date:	

Wattage & Lumen Output

700/750 Milliamps - 1200 Lumens		1000/1050 Milliamps - 1800 Lumens		1200 Milliamps - 2000 Lumens	
16W	ON/OFF	24W	ON/OFF	28W	MLV <1% Dimming
18W	MLV <1% Dimming	28W	MLV <1% Dimming		ON/OFF 0-10V 1% Lutron DMX

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 350 mA RGBW3K	ABS Light 700 mA RGBW3K	700 mA White 3K
Red	480	960	
Green	930	1860	
Blue	138	276	
White	780	1560	
Total	2328	4656	1688

*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 14°

2'	5,051 fc	0.5'
4'	1,263 fc	1.0'
6'	561 fc	1.4'
8'	316 fc	1.9'
10'	202 fc	2.4'
12'	140 fc	2.9'

28W PAR20 - 1,638 lm

Spot 19°

2'	2,793 fc	0.7'
4'	698 fc	1.4'
6'	310 fc	2.0'
8'	175 fc	2.7'
10'	112 fc	3.4'
12'	78 fc	4.1'

28W PAR20 - 1,865 lm

Narrow Flood 22°

2'	2,014 fc	0.8'
4'	504 fc	1.5'
6'	224 fc	2.3'
8'	126 fc	3.1'
10'	81 fc	3.9'
12'	56 fc	4.6'

28W PAR20 - 1,785 lm

Flood

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

28W PAR20 - 1,721 lm

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	20206	
5	13883	1000
10	4389	
15	921	334
20	336	
25	210	99
30	149	
35	117	75
40	102	
45	81	65
50	73	
55	49	47
60	41	
65	15	17
70	1	
75	0	0
80	0	
85	0	
90	0	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	11174	
5	9332	519
10	5281	
15	2307	475
20	977	
25	422	166
30	220	
35	144	71
40	112	
45	92	50
50	72	
55	48	26
60	41	
65	14	5
70	2	
75	1	1
80	0	
85	0	0
90	0	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	8057	
5	6932	579
10	4463	
15	2316	650
20	1093	
25	535	261
30	300	
35	194	126
40	146	
45	118	91
50	88	
55	58	56
60	50	
65	14	20
70	3	
75	1	1
80	1	
85	0	0
90	0	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	3157	
5	3048	281
10	2720	
15	2189	597
20	1558	
25	989	454
30	564	
35	320	207
40	181	
45	105	85
50	67	
55	49	45
60	39	
65	28	28
70	20	
75	17	18
80	13	
85	6	7
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	1433	87.5
0-40	1508	92.1
0-60	1620	98.9
0-90	1638	100.0
40-90	130	7.9
60-90	18	1.1
90-180	0	0.0
0-180	1638	100.0

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	1635	90.6
0-40	1729	94.6
0-60	1846	99.6
0-90	1865	100.0
40-90	136	5.4
60-90	19	0.4
90-180	0	0.0
0-180	1865	100.0

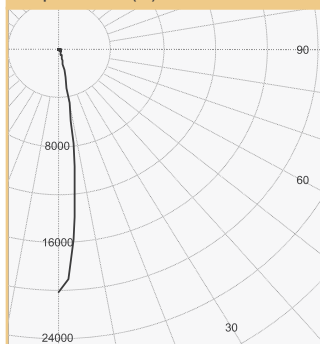
Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	1490	83.5
0-40	1616	90.5
0-60	1763	98.8
0-90	1785	100.0
40-90	169	9.5
60-90	22	1.2
90-180	0	0.0
0-180	1785	100.0

Zonal Flux and Percentages

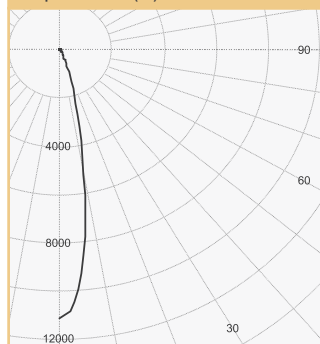
Zone	Flux (lm)	%Luminaire
0-30	1332	77.4
0-40	1539	89.4
0-60	1668	96.9
0-90	1721	100.0
40-90	182	10.6
60-90	53	3.1
90-180	0	0.0
0-180	1721	100.0

All planes - Solid (cd)



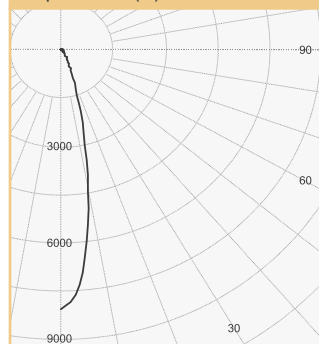
(Rotational Symmetry)

All planes - Solid (cd)



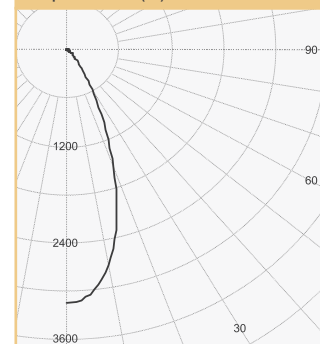
(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

Clarté Lighting

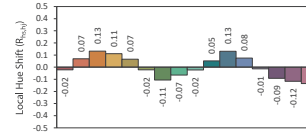
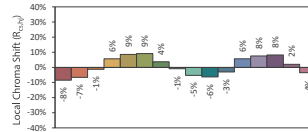
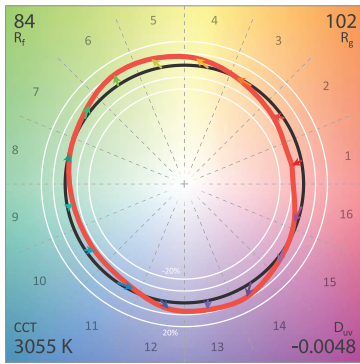
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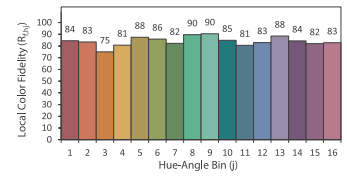
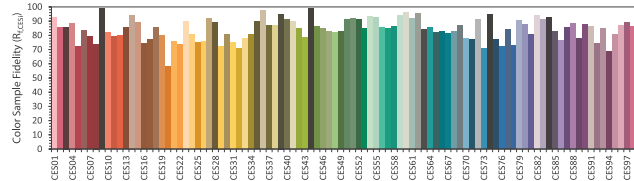
TM-30-18 Color Metrics

Project Name:		Type:	
Catalog Number:		Date:	

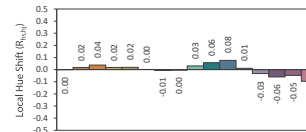
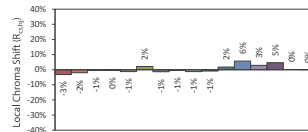
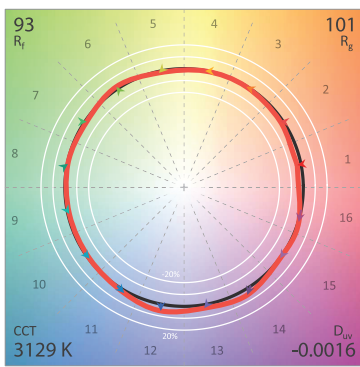
Clarté Lighting 3000K 80+ CRI Color Metrics



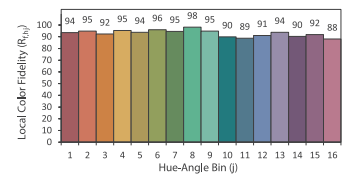
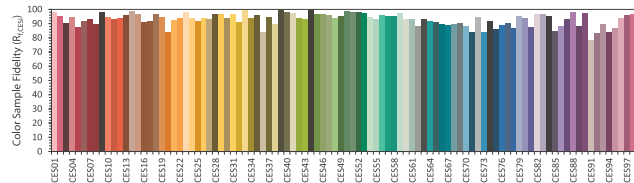
CIE 13.3-1995
(CRI)
R_a 86
R_g 29



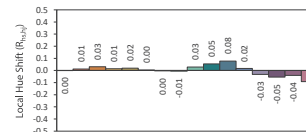
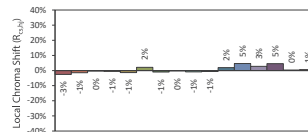
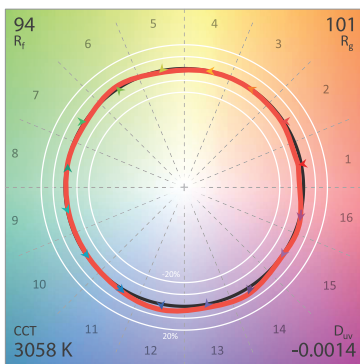
Clarté Lighting 3000K 90+ CRI Color Metrics



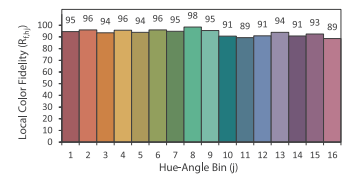
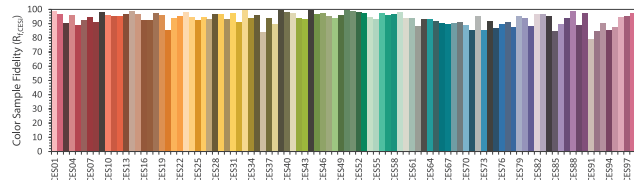
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R_a 95
R_g 74



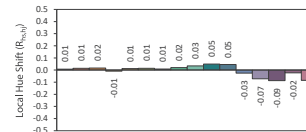
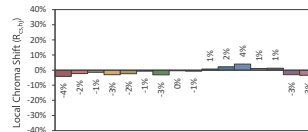
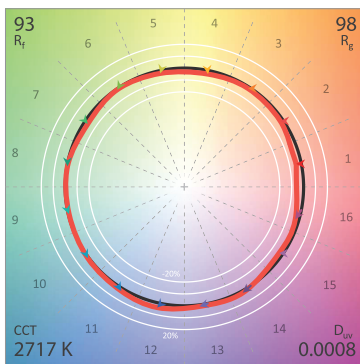
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



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

