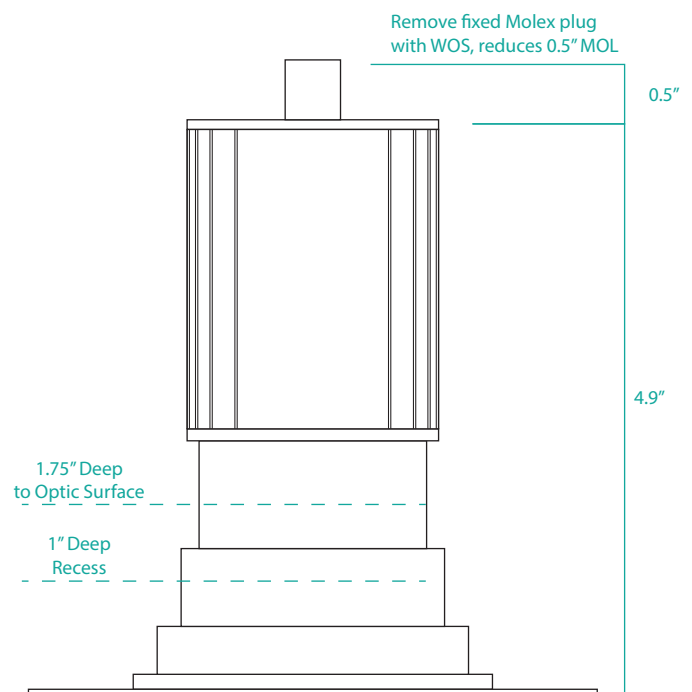
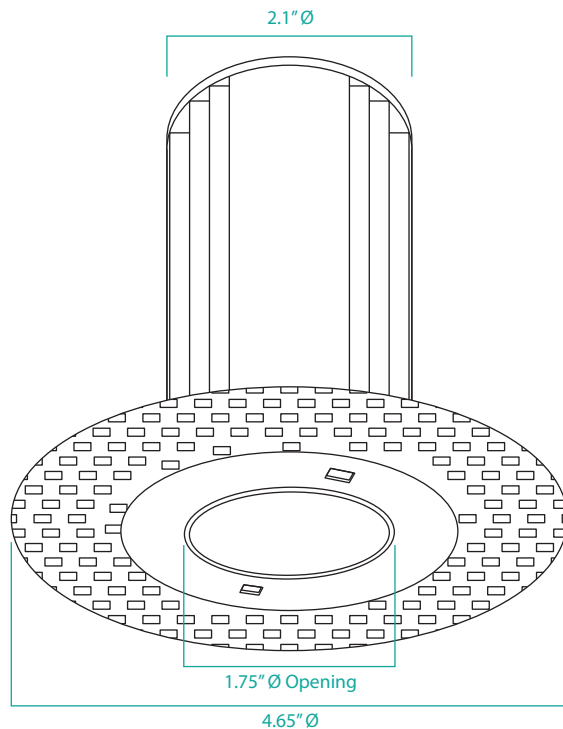
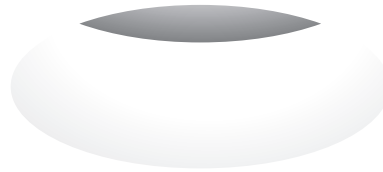


RR2-297-PAR16-1 $\frac{3}{4}$ "TL1 $\frac{3}{4}$ " Trimless Fixed Plaster Fixture

Project Name:		Type:	
Catalog Number:		Date:	

Trimless - Plaster (TLP)

**Key Features**

- 1.75" ID
- Fixed
- Trimless Plaster
- IC or NON IC version
- Remote or In-Line Transformer Option
- 100,000+ L70 life

LED Source Details

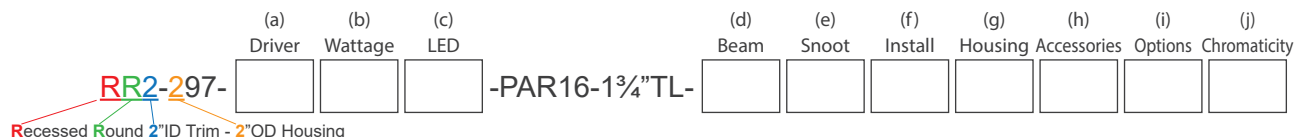
CREE XPL LED maximum rating = 3,000mA

- Fixture operating milliamp range = 450mA to 1150mA.
- Operating 15% to 38% of rated value
- Fixture wattage range = 8W to 20W
- Fixture delivered lumens = 700 to 1,300 lumens

Last revised: 12/03/2024

RR2-297-PAR16-1³/₄"TL1³/₄" Trimless Fixed Plaster Fixture

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)
0-10V**	= 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

8W (520 Lumens)	= ON/OFF, 0-10V 1%
9W (520 Lumens)	= MLV <1% Dimming
12W (800 Lumens)	= ON/OFF, 0-10V 1%, ED
14W (800 Lumens)	= MLV <1% Dimming
16W (1100 Lumens)	= ON/OFF, 0-10V 1%, ED
17W (1100 Lumens)	= MLV <1% Dimming
18W (900 Lumens)	= Absolute Light RGBW
19W (1300 Lumens)	= DMX Dimming
20W (1300 Lumens)	= ON/OFF, 0-10V 1%, ED

(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

(g) Installation Options

TLP	= Trimless Plaster
-----	--------------------

(h) Fixture Housing Options**Non-IC Rated:**

RMT	= No housing, no frame, remote transformer spring clip loaded trim
NIC	= Frame and junction box to be used with trim version
NH-T1	= No housing with zero plane installation

IC Rated:

AH	= 8" x 8" Architectural housing to be used with trimmed or zero plane installation
----	--

(i) 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 - 100K warmer. 2700k to 2500K
---	---

DH	= Dimmed Halogen - 400K warmer. 2700k to 2300K
----	--

(j) 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
FX	= Fixed (standard)
WOS	= Wires Out the Side (reduces height by 0.5")
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.

(k) Color Temperature Options**White LED**

22K*	= 2200 Kelvin (candlelight color)
27K	= 2700 Kelvin (incandescent color)
30K	= 3000 Kelvin (halogen color)
35K	= 3500 Kelvin (warm incandescent)
40K	= 4000 Kelvin (cool incandescent)
50K	= 5000 Kelvin (day white)
65K	= 6500 Kelvin (12 noon sunlight)

Colored/Themed LED

UV365**	= 365 NM UV black light
UV390**	= 390 NM UV black light
Blue**	= 465 - 485 NM wavelength
Green**	= 520 - 535 NM wavelength
Amber**	= 585 - 595NM wavelength
Red**	= 620 - 630 NM wavelength
RGBW3K***	= Red, Green, Blue, White
RGBW4K***	= Red, Green, Blue, White

*1050 mA or less

**700 mA

***Must utilize DMX @ 700 mA

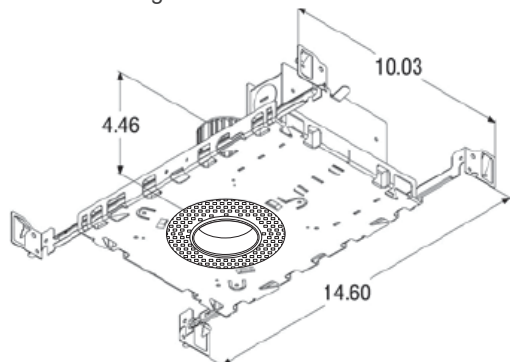
RR2-297-PAR16-1 $\frac{3}{4}$ "TL1 $\frac{3}{4}$ " Trimless Fixed Plaster Fixture

Project Name:		Type:	
Catalog Number:		Date:	

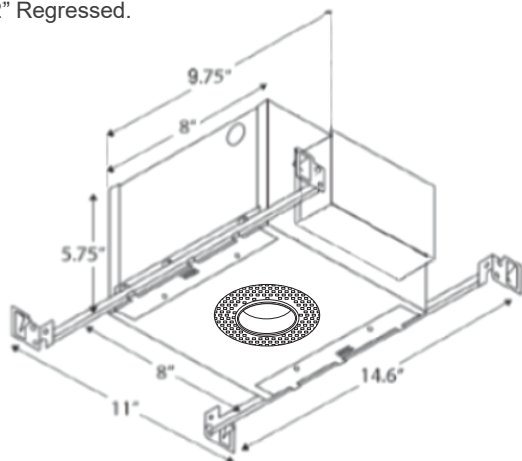
Non-IC: No Housing Remote Transformer Remodel - Trimmed



Non-IC: No Housing Framed Fixture with J-Box - Trimmed

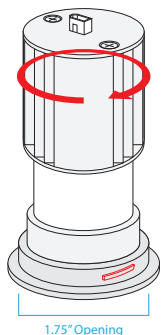


IC: Architectural Housing - Trimless, Level Plane or 1/2" Regressed.



Trimless - 2-Part Design

Standard Unit



Absolute Light 2.0

**Housing**

- 100% aluminum construction
- IC housing 8" x 8" x 5 $\frac{3}{4}$ " with j-box
- NIC housing
- Remote transformer up to 100' away with 12 gage wire
- Universal 24" adjustable hangar bars

Electrical

- IC fixture housing or NON-IC fixture frame with J-Box
- Optional - 12V AC remote class 2
- 120V or 277V

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
- 0-10V - 4 wire 1% LED driver
- Absolute Light - Remote mount class 2 48V din rail .001% LED system
- 16-bit RMD DMX or 32 bits NON DMX - 65,536 dimming steps fade to OFF glow to ON

Optics

- TIR discrete injection molded polycarbonate precision LED optic
- Narrow Narrow Spot 8°, Narrow Spot 12°, Spot 17°, Narrow Flood 23°, or Flood 40°
- 45-degree vertical cut off

Optical Accessories

- Up to 3 optical accessories
- Lens softener (LS), Wide Flood (WFL), LSL (20x60 linear spread lens), Honeycomb Louver (LV)
- White or black color optical accessory cup

Trim Finish

- White or black

Certification

- UL Damp Listed - IP 52

Installation

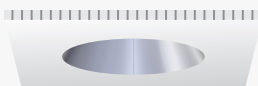
- 3D printed 2-part, trimless design
- 3D printed .02" tapered edge mud screen
- 3D printed quarter turn reverse thread optical insert
- Installs into any thickness of drywall/plaster ceiling

Warranty

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

1 Trim Installation Option

Trimless



RR2-297-PAR16-1³/₄"TL1³/₄" Trimless Fixed Plaster Fixture

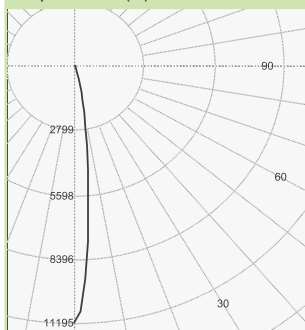
Project Name:		Type:	
Catalog Number:		Date:	

Narrow Narrow Spot 8.5°

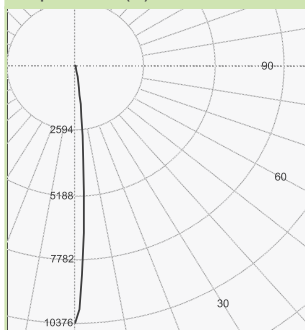
3.3'	1,028 fc	0.5'
6.7'	249 fc	1.0'
10'	112 fc	1.5'
13.3'	63.3 fc	2.0'
16.7'	40.1 fc	2.5'
20'	28 fc	3.0'
26.7'	15.7 fc	4.0'
33.3'	10.1 fc	5.0'
40'	7 fc	6.0'

20W PAR16 - 472 lm
11,195 CBCP**Zonal Flux and Percentages**

Zone	Flux (lm)	%Luminaire
0-30	460	97.5
0-40	467	99.0
0-60	472	100.0
0-90	472	100.0
40-70	5	1.0
60-80	0	0.0
90-180	0	0.0
0-180	472	100.0

All planes - Solid (cd)**Narrow Narrow Spot 7.9° (with Louver)**

3.3'	953 fc	0.5'
6.7'	231 fc	0.9'
10'	104 fc	1.4'
13.3'	58.7 fc	1.8'
16.7'	37.2 fc	2.3'
20'	25.9 fc	2.8'
26.7'	14.6 fc	3.7'
33.3'	9.36 fc	4.6'
40'	6.48 fc	5.5'

20W PAR16 - 382 lm
10,376 CBCP**All planes - Solid (cd)****Wattage & Lumen Output**

450 Milliamps - 520 Lumens		700 Milliamps - 800 Lumens	
8W	ON/OFF	12W	ON/OFF
	0-10V 1% Dimming		0-10V 1% Dimming
9W	MLV <1% Dimming		ELV 10% Dimming
		14W	MLV <1% Dimming
1000 Milliamps - 1100 Lumens		1150 Milliamps - 1300 Lumens	
16W	ON/OFF	20W	ON/OFF
	0-10V 1% Dimming		0-10V 1% Dimming
	ELV 10% Dimming		ELV 10% Dimming
17W	MLV <1% Dimming		
19W	Lutron 1% Dimming		
	DMX .33% Dimming		

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

	700 mA	700 mA
	RGBW3K	White 3K
Red	480	
Green	930	
Blue	138	
White	780	
Total	2328	844

*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°

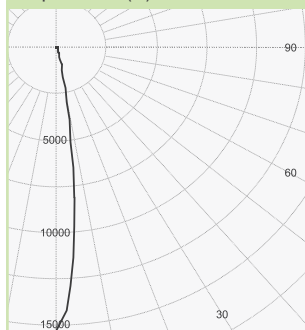
2'	3,824 fc	0.4'
4'	956 fc	0.9'
6'	425 fc	1.3'
8'	239 fc	1.8'
10'	153 fc	2.2'
12'	106 fc	2.7'
20'	28 fc	5.2'
26'	16 fc	7.0'
33'	10 fc	8.7'
40'	7 fc	10.5'

20W PAR16 - 1,100 lm
15,296 CBCP**Intensity Summary (cd)**

Gamma	All Planes	Flux (lm)
0	15296	
5	9739	696
10	2978	
15	676	236
20	229	
25	135	64
30	90	
35	67	43
40	53	
45	46	35
50	34	
55	23	21
60	15	
65	2	4
70	1	
75	0	0
80	0	
85	0	0
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	997	90.6
0-40	1040	94.6
0-60	1096	99.6
0-90	1100	100.0
40-90	60	5.4
60-90	4	0.4
90-180	0	0.0
0-180	1100	100.0

All planes - Solid (cd)**Spot 19°**

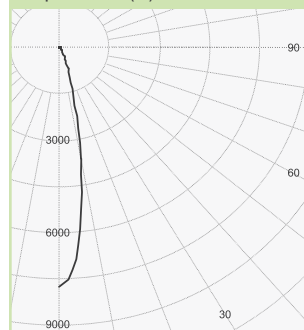
2'	1,939 fc	0.7'
4'	485 fc	1.4'
6'	215 fc	2.0'
8'	121 fc	2.7'
10'	78 fc	3.4'
12'	54 fc	4.1'
20'	28 fc	6.1'
26'	16 fc	8.1'
33'	10 fc	10.1'
40'	7 fc	12.1'

20W PAR16 - 1,313 lm
7,757 CBCP**Intensity Summary (cd)**

Gamma	All Planes	Flux (lm)
0	7757	
5	6432	519
10	3640	
15	1648	475
20	731	
25	336	166
30	176	
35	110	71
40	77	
45	67	50
50	47	
55	29	26
60	15	
65	3	5
70	1	
75	0	1
80	0	
85	0	0
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	1160	88.3
0-40	1231	93.8
0-60	1308	99.6
0-90	1313	100.0
40-90	82	6.2
60-90	5	0.4
90-180	0	0.0
0-180	1313	100.0

All planes - Solid (cd)**Narrow Flood 24°**

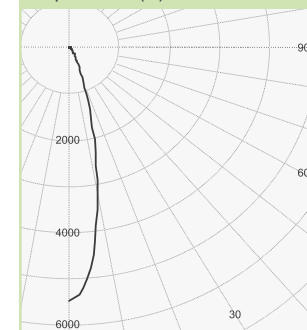
2'	1,705 fc	0.7'
4'	426 fc	1.4'
6'	189 fc	2.1'
8'	107 fc	2.8'
10'	68 fc	3.5'
12'	47 fc	4.3'
20'	17 fc	7.5'
26'	10 fc	10.0'
33'	6 fc	12.4'
40'	5 fc	14.9'

20W PAR16 - 1,306 lm
5,478 CBCP**Intensity Summary (cd)**

Gamma	All Planes	Flux (lm)
0	5478	
5	4774	404
10	3229	
15	1800	500
20	905	
25	452	219
30	244	
35	146	95
40	98	
45	75	57
50	47	
55	25	25
60	15	
65	3	5
70	1	
75	1	1
80	0	
85	0	0
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	1123	86.0
0-40	1219	93.3
0-60	1301	99.6
0-90	1306	100.0
40-90	88	6.7
60-90	6	0.4
90-180	0	0.0
0-180	1306	100.0

All planes - Solid (cd)

Clarté Lighting

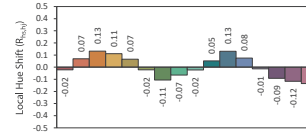
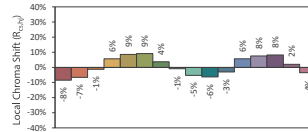
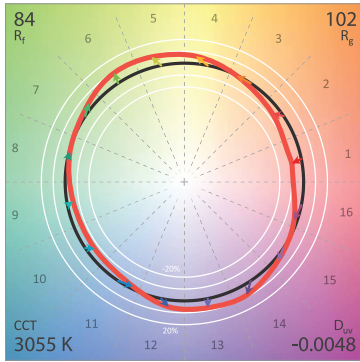
RR2-297-PAR16-1³/₄"TL

1³/₄" Trimless Fixed Plaster Fixture

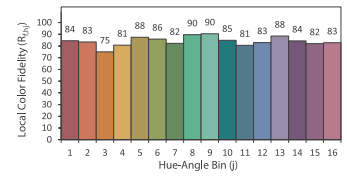
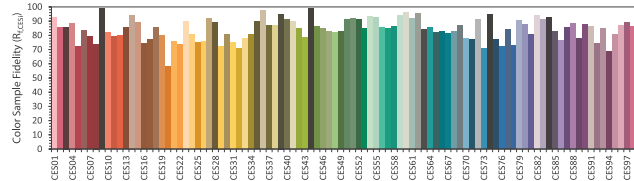
TM-30-18 Color Metrics

Project Name:		Type:	
Catalog Number:		Date:	

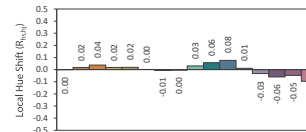
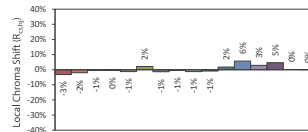
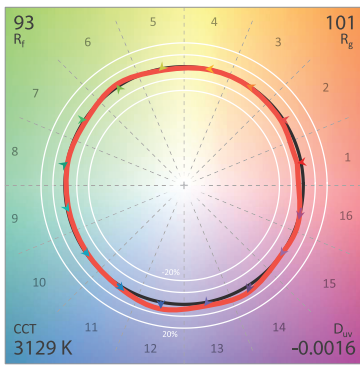
Clarté Lighting 3000K 80+ CRI Color Metrics



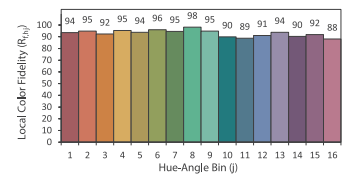
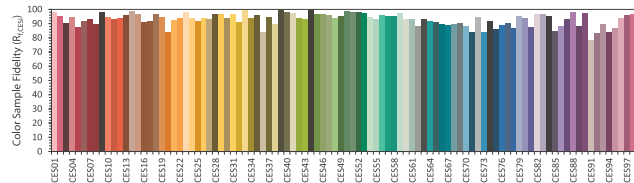
CIE 13.3-1995 (CRI)
R _a 86
R _g 29



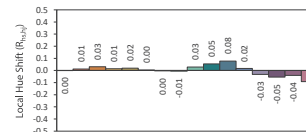
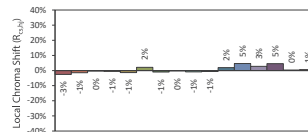
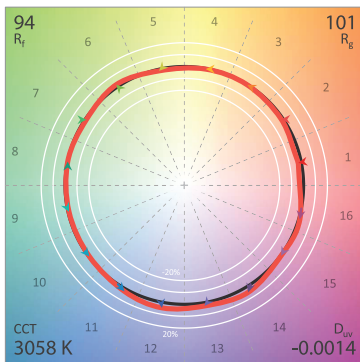
Clarté Lighting 3000K 90+ CRI Color Metrics



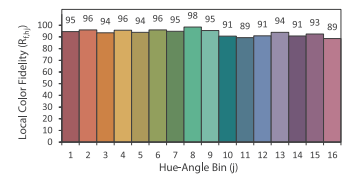
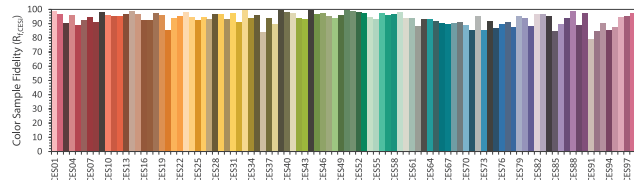
CIE 13.3-1995 (CRI)
R _a 95
R _g 74



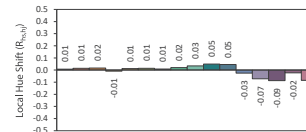
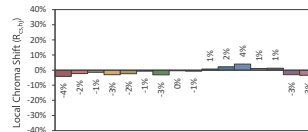
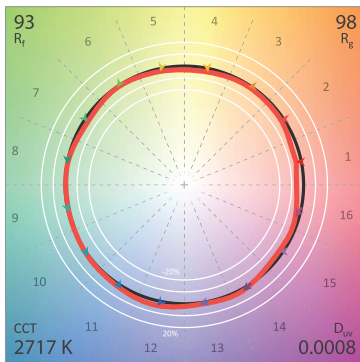
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



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

