

RR1-189-PAR8-3/4"TL-ANG-X2

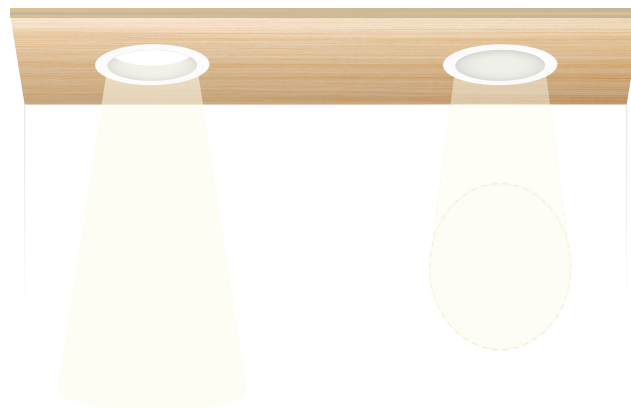
2 Lamp Trimless Fixed Downlight & Angle

Project Name:		Type:	
Catalog Number:		Date:	

Trimless - Plaster (TLP)

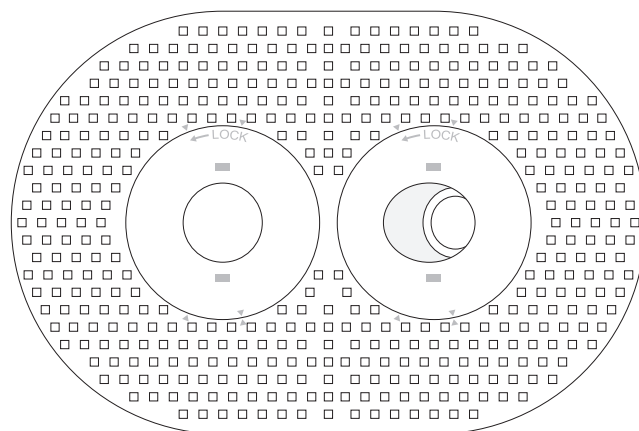
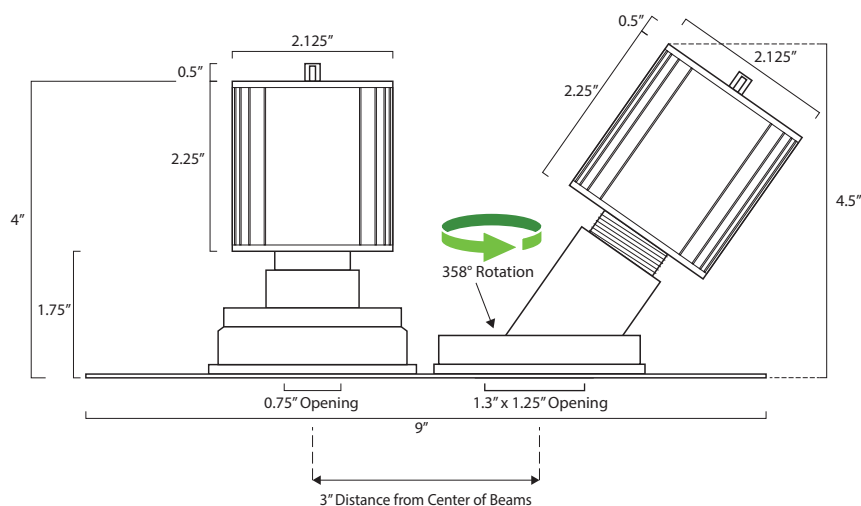


Trimless - Wood (TLW)



Fixed Downlight

35° Fixed Angle

**Key Features**

- 0.75" Fixture ID
- Up to 2 Accessories
- 358° Rotation
- Fixed Trimless Plaster
- NON IC
- Remote Transformer
- 0.03" Trimless Screen Edge
- 100,000+ L70 life

LED Source Details

- CREE XHP50 LED maximum rating = 1,500mA
- Fixture operating milliamp range = 300mA to 700mA.
- Operating 15% to 38% of rated value 20% to 47%
- Fixture wattage range = 5W to 17W
- Fixture delivered lumens = 500 to 1,150 lumens
- Calculated L70 CREE LED Life – 145,000 hrs*
- Projected L70 CREE LED Life – 315,000 hrs*

*CREE calculated from XHP502 LM80 and TM21 data

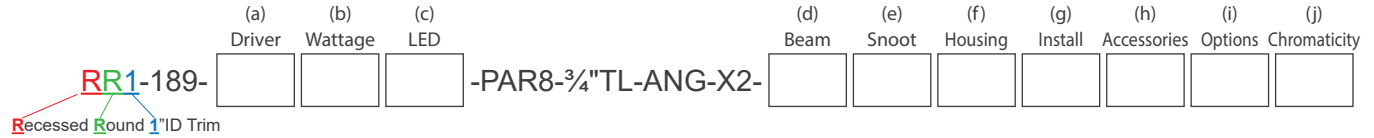
Patent No.: US 10,208,928 B1

Last revised: 12/01/2025

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**(a) Driver Options**

D	= 0.1% MLV 12V AC Dimming (2 wire)
E	= ON/OFF (Electronic)
ED	= 1% Electronic Reverse Phase Dimming (2 wire)
12V AC	= 0.1% PWM AC Remote Magnetic Dimming (2 wire)
24V DC	= 0.1% PWM DC Remote Magnetic Dimming (2 wire)
0-10V*	= Remote Mount 0-10V driver for single fixture (4 wire)
0-10V 2	= Remote Mount 0-10V driver for up to 2 fixtures (4 wire)
0-10V 3	= Remote Mount 0-10V driver for up to 3 fixtures (4 wire)
0-10V 4**	= Remote Mount 0-10V driver for up to 4 fixtures (4 wire)
DALI2	= 0.1% Digital Addressable Lighting Interface V2
DALI2-4***	= 0.1% Digital Addressable Lighting Interface V2 (4 fixture)
RDM DMX	= 0.001% 16 Bit, 4-Channel Dimming (2 wire with CAT5)
ABS	= 0.001% Absolute Light Dimming (use with RGBW)
ABSX	= 0.001% DMX Absolute Light Dimming (use with RGBW)

*Remote 0-10V LED driver operates single fixture 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 with remote LED driver

(b) Wattage Options

5W (500 Lumens)	= ON/OFF, 0-10V 1%, ED*
7W (500 Lumens)	= MLV <1% Dimming
10W (000 Lumens)	= ABS
11W (525 Lumens)	= ON/OFF, 0-10V 1%, ED*
14W (525 Lumens)	= MLV <1% Dimming
15W (1150 Lumens)	= ON/OFF, 0-10V 1%, ED*
17W (1150 Lumens)	= MLV <1% Dimming, DMX

*Only with no accessories.

(c) Lamp Type OptionsX4LED = Cree XHP50 LED = 50+% brighter than XLED
(available in spot, narrow flood, and flood)**(d) Beam Options**

SP	= Spot	NFL	= Narrow Flood
FL	= Flood		

(e) Snoot Color Options

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

(f) 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

IC Rated:

AH	= 8" x 8" Architectural housing to be used with trimmed or level plane installation
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(g) Installation Options

TLP	= Trimless Plaster
TLW	= Trimless Wood

(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 - 100K warmer. 2700k to 2500K	
DH	= Dimmed Halogen - 400K warmer. 2700k to 2300K	

(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
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
RET*	= Bi-pin whip to plug Clarté LED trim module into existing MLV transformed recessed halogen MR16 fixtures.
80+	= CRI over 80
90+	= CRI over 90
EXT	= Exterior zinc primer with zinc infused paint

*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**

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)

Colored/Themed LED

RGBW3K*	= Red, Green, Blue, White
RGBW4K*	= Red, Green, Blue, White

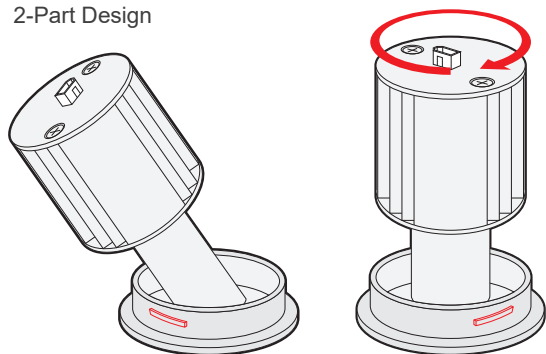
*Must utilize DMX fixture option

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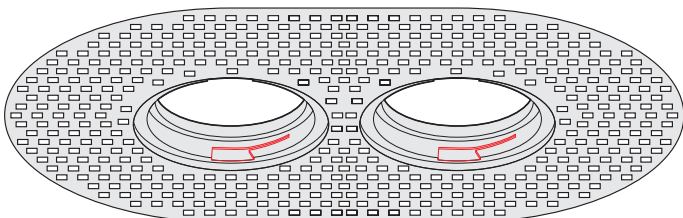
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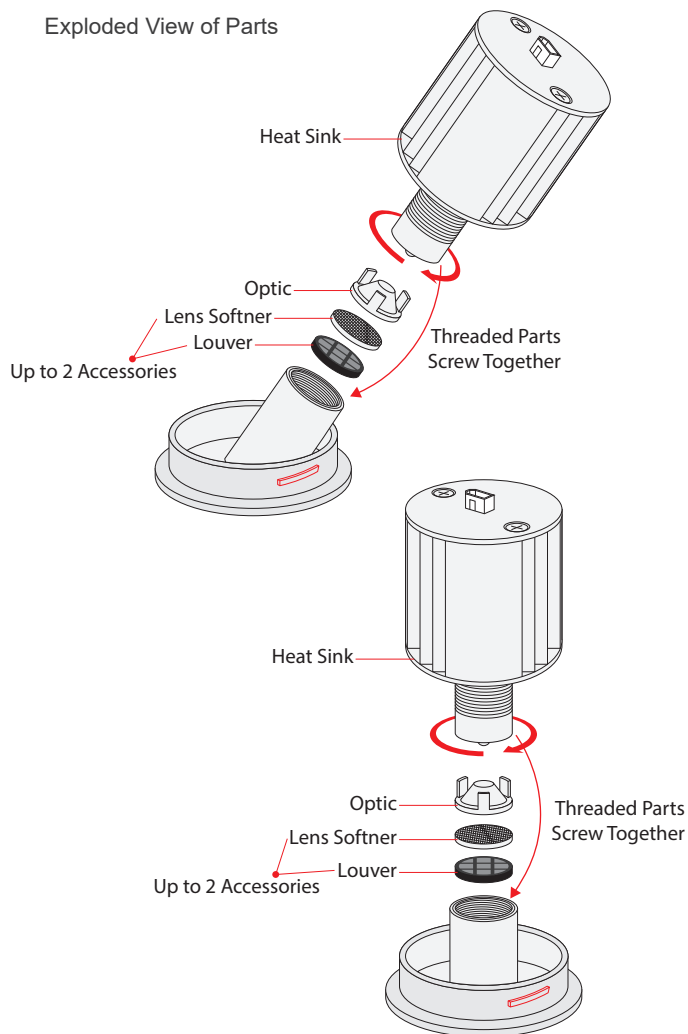
2-Part Design



Quick and easy install.
Line up slots and twist.



Exploded View of Parts

**Electrical**

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

Heat Sync

- 100% extruded aluminum construction

LED

- 1,500 maximum milliamp rated CREE XHP50 LED
- Operates between 450 to 700 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

Accessories

- Up to 2 accessories

Trimless

- 0.03" Screen Edge
- 2-Part design for easy access to LED or driver

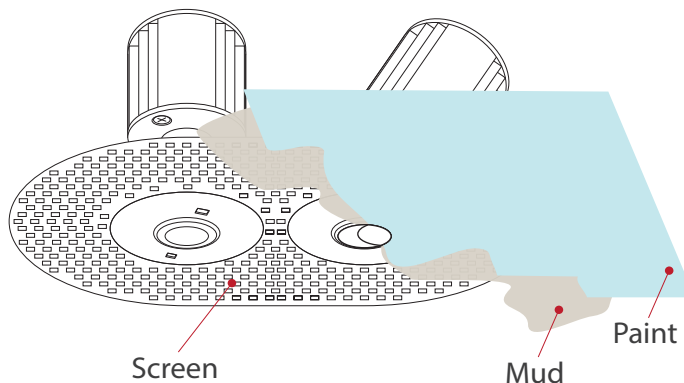
Certification

- UL Damp Listed – IP 52 – Open trim

Warranty

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

Quick Install Diagram



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2 Lamp Trimless Fixed Downlight & Angle

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Wattage & Lumen Output

300 Milliamps - 500 Lumens

5W	ON/OFF
	0-10V 1% Dimming
	ED
7W	MLV <1% Dimming

700 Milliamps

10W	Red - Up to 150 Lumens
	Green - Up to 150 Lumens
	Blue - Up to 150 Lumens
	White - Up to 300 Lumens

525 Milliamps - 900 Lumens

11W	ON/OFF
	0-10V 1% Dimming
	ED
14W	MLV <1% Dimming

700 Milliamps - 1150 Lumens

15W	ON/OFF
	0-10V 1% Dimming
	ED
14W	MLV <1% Dimming
	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

	700 mA RGBW3K	700 mA White 3K
Red	160	
Green	310	
Blue	46	
White	260	
Total	776	907

*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 Flood 26°

2'	559 fc	0.9'
4'	140 fc	1.9'
6'	62 fc	2.8'
8'	35 fc	3.7'
10'	22 fc	4.7'
12'	16 fc	5.6'

11W PAR8 - 525mA - 670 lm

Narrow Flood 26°

2'	699 fc	0.9'
4'	175 fc	1.9'
6'	78 fc	2.8'
8'	44 fc	3.7'
10'	28 fc	4.7'
12'	20 fc	5.6'

15W PAR8 - 700mA - 893 lm

Flood 40°

2'	402 fc	1.5'
4'	101 fc	2.9'
6'	45 fc	4.4'
8'	25 fc	5.9'
10'	16 fc	7.4'
12'	11 fc	8.8'

11W PAR8 - 525mA - 907 lm

Flood 40°

2'	503 fc	1.5'
4'	127 fc	2.9'
6'	57 fc	4.4'
8'	32 fc	5.9'
10'	20 fc	7.4'
12'	14 fc	8.8'

15W PAR8 - 700mA - 1209 lm

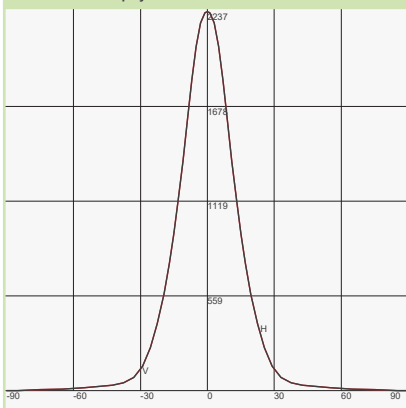
Zonal Flux and Percentages

Zone	%Luminaire
0-20	63
0-30	83.3
0-40	89.8
0-60	95.8
0-80	99.2
0-90	100
10-90	77.9
20-40	26.7
20-50	30.6
40-70	8
60-80	3.4
70-80	1.4
80-90	0.8

Zonal Flux and Percentages

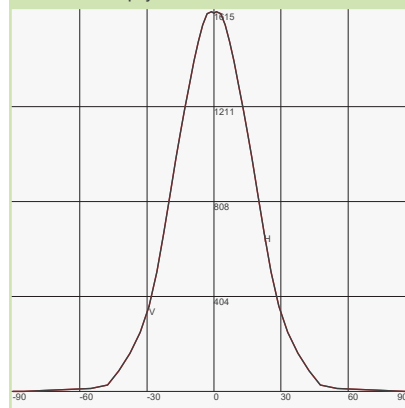
Zone	%Luminaire
0-20	47.3
0-30	74.3
0-40	88.5
0-60	97.5
0-80	99.5
0-90	100
10-90	87.1
20-40	41.2
20-50	48.7
40-70	10.1
60-80	2
70-80	0.9
80-90	0.5

Axial Candela Display



Maximum Candela = 2237 - Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Axial Candela Display



Maximum Candela = 1615 - Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Clarté Lighting

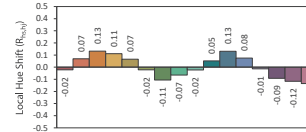
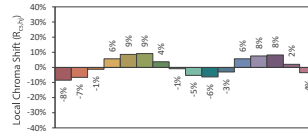
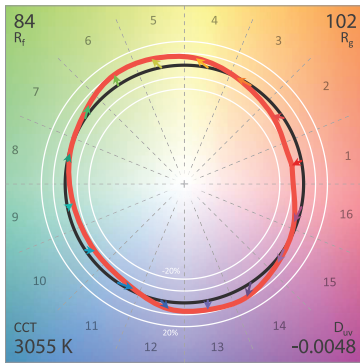
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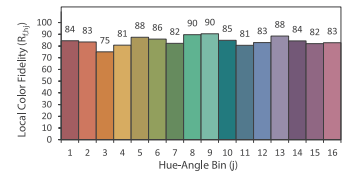
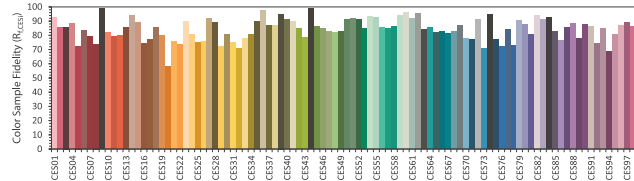
TM-30-18 Color Metrics

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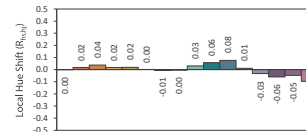
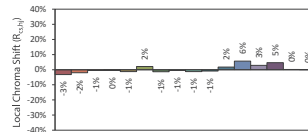
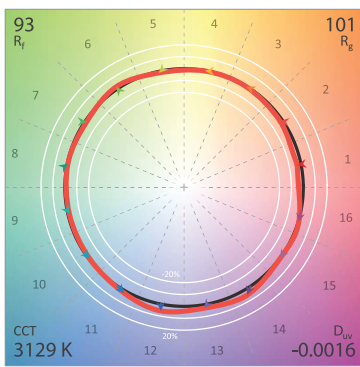
Clarté Lighting 3000K 80+ CRI Color Metrics



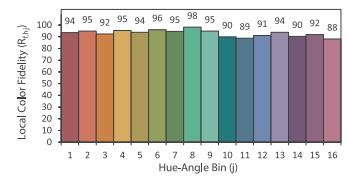
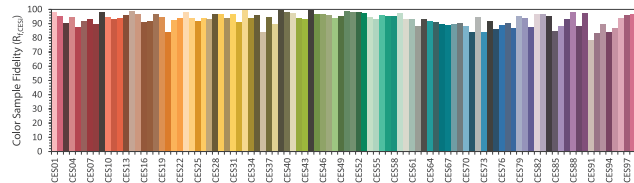
CIE 13.3-1995
(CRI)
R_a 86
R_g 29



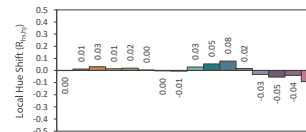
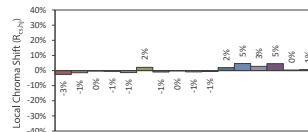
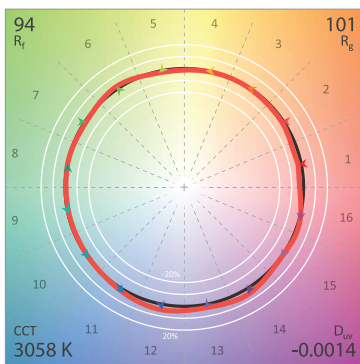
Clarté Lighting 3000K 90+ CRI Color Metrics



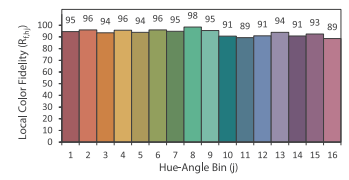
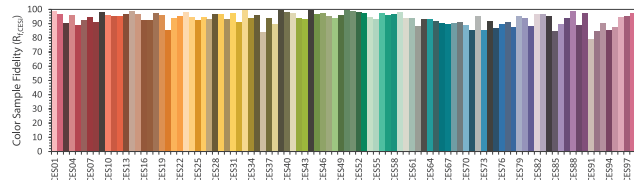
CIE 13.3-1995
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R_a 95
R_g 74



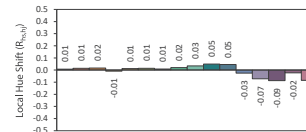
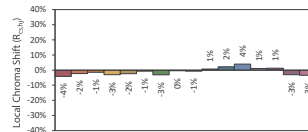
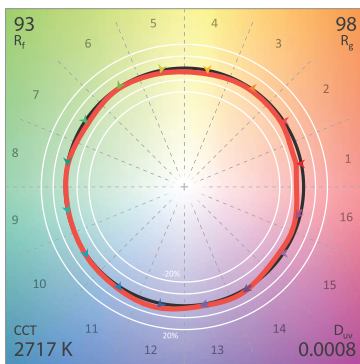
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



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

