RS1-187-PAR8

Adjustable or Fixed Square Lipstick

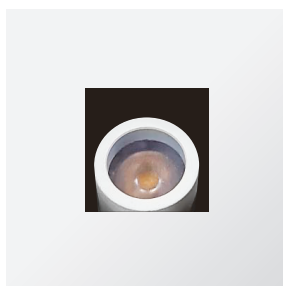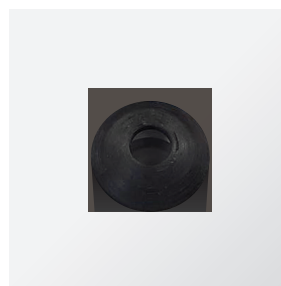| Project Name:		Type:	
Catalog Number:		Date:	

Trimless ½" Recessed

Recessed with Trim

Optical Reducer Sleeve

From 0.75"Ø ID
To 0.40"Ø ID

Fixed or Shower Trim

2.12"
.5"
4" 17W
15W
11W
3.5" 14W
2"
3" 5W
7W
2"
1.25" inner opening
2.85"
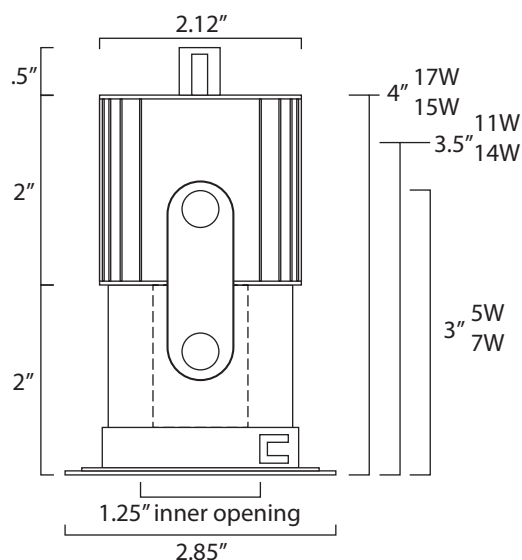
Fixed Wall Wash

Same Dimensions as Fixed
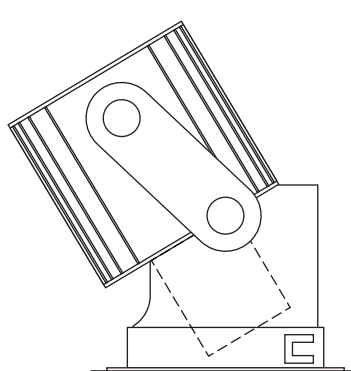
Adjustable

Same Dimensions as Fixed

Adjustable up to 45°
Ø.75"
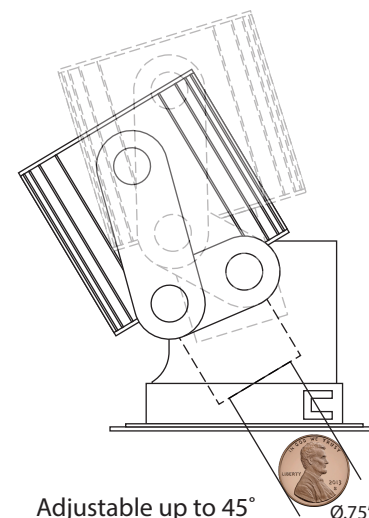
Key Features

- 1.5" ID - 2.91" OD
- Adjustable up to 50°
- Adjustable Recessed or Semi-Recessed
- Fixed ½" Recessed Trimless
- 365° Rotation
- IC or NON IC version
- Remote Transformer Optoin
- .02" Uber Thin Trim Lip
- Over 10,000+ fixture custom color finish options
- 100,0000+ 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

Patent No.: US 10,208,928 B1

Last revised: 04/13/2023

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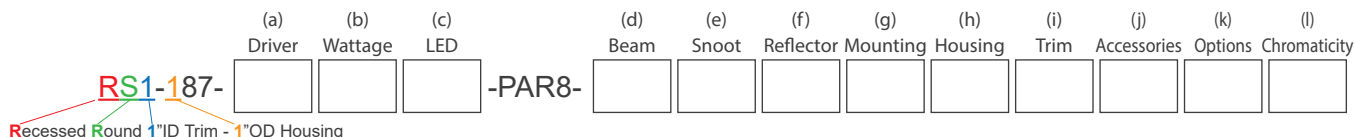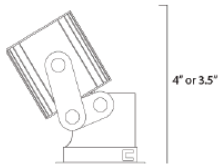
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CREE LEDs

c(UL)us LISTED E486247

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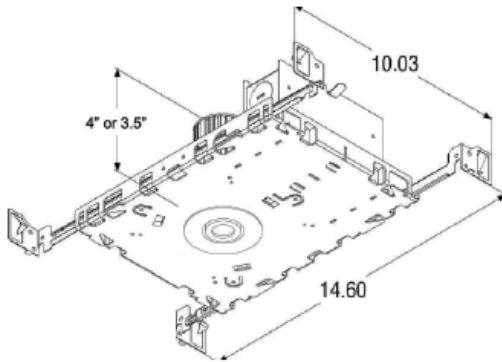
RS1-187-PAR8
Adjustable or Fixed Square Lipstick

	(a) Driver	(b) Wattage	(c) LED		(d) Beam	(e) Snoot	(f) Reflector	(g) Mounting	(h) Housing	(i) Trim	(j) Accessories	(k) Options	(l) Chromaticity

RS1-187- ☐ ☐ ☐ -PAR8- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Recessed **R**ound **1**"ID Trim - **1**"OD Housing

(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 (3 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	=	Non-DMX Absolute Light .001% RGBW dimming
ABSX	=	DMX Absolute Light .001% RGBW dimming

*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

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 Options

X4LED = 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) Reflector/Trim Lip Color Options

WHT/WHT	=	White Relfector/White Trim Lip
WHT/BLK	=	White Relfector/Black Trim Lip
BLK/BLK	=	Black Relfector/Black Trim Lip
BLK/WHT	=	Black Relfector/White Trim Lip
PWT/PWT	=	Pewter Reflector/Pewter Trim Lip
PWT/WHT	=	Pewter Reflector/White Trim Lip
PWT/WHT	=	Pewter Reflector/Black Trim Lip

(g) Mounting Options

ADJ	=	Adjustable
FX	=	Fixed
WOS	=	Wires Out the Side (reduces height by 0.5")
FWW	=	Fixed Wall Wash
ST	=	Shower Trim

(h) Fixture Housing Options

Non-IC Rated:
RMT	=	No housing, no frame, remote transformer spring clip loaded trim
NIC	=	Frame and juction box to be used with trim version

IC Rated:
AH	=	8" x 8" Architectural housing to be used with trimmed or level plane installation

(i) Trim Type

T	=	Trimmed
T1	=	Level Plane
T2	=	Trimless ½" Recessed
TLW	=	Trimless Wood

(j) 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 elimniates 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

(k) Options

RMT7	=	7Watt 12V AC MLV Step Down Transformer
RMT14	=	14Watt 12V AC MLV Step Down Transformer
RMT17	=	17Watt 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
RET*	=	Bi-pin whip to plug Clarté LED trim module into existing MLV transformed recessed halogen MR16 fixtures.
0.4"	=	0.4" Optical Reducer Sleeve
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.

(l) 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)	RGBW3K***	=	Red, Green, Blue, White
			RGBW4K***	=	Red, Green, Blue, White

available soon

*1050 mA or less

**700 mA or less
**Must utilize DMX fixture option

RS1-187-PAR8
Adjustable or Fixed Square Lipstick

Project Name:		Type:	
Catalog Number:		Date:	

Non-IC: No Housing Remote Transformer Remodel - Trimmed

4" or 3.5"

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

10.03
4" or 3.5"
14.60

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

9.75"
8"
5.75"
8"
11"
14.6"

Housing
- 100% aluminum construction
- IC housing with hinged 4" x 6" side access panel to j-box & LED driver

Electrical
- IC or NON-IC fixture housing
- 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
- .02" thin trim lip
- Hydro form reflector - no spin marks

Trim Finish
- Specular Aluminum Anodized
- Matt Aluminum Anodized
- White, Black or Pewter Powder Coat Paint
- 3300+ Custom Power Coat Paint Colors
- 7000+ Custom Wet Paint Colors

Level Plane and Trimless Installation
- Available in ½" recessed trimless and level plane

Installation
- Accommodates ceiling thickness up to 2.5"
- Universal adjustable 24" adjustable hangar bars

Certification
- UL Damp Listed – IP 52 – Open trim
- UL Wet Listed – IP 65 – Lensed trim

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

3 Trim Installation Options

Trim   Level Plane   Trimless ½" Recessed

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Project Name:		Type:	
Catalog Number:		Date:	

Wattage & Lumen Output

300 Milliamps - 500 Lumens		**700 Milliamps**		**525 Milliamps - 900 Lumens**		**700 Milliamps - 1150 Lumens**	
5W	ON/OFF	10W	Red - Up to 150 Lumens	11W	ON/OFF	15W	ON/OFF
	0-10V 1% Dimming		Green - Up to 150 Lumens		0-10V 1% Dimming		0-10V 1% Dimming
	ED		Blue - Up to 150 Lumens		ED		ED
7W	MLV <1% Dimming		White - Up to 300 Lumens	14W	MLV <1% Dimming	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

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 - 670 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 - 670 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
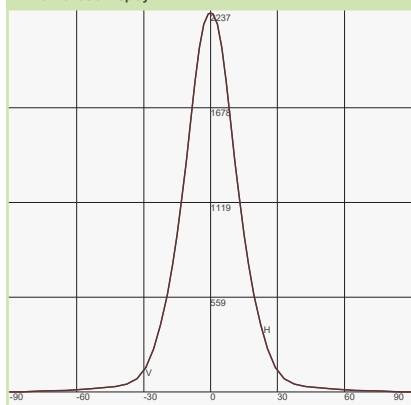
Maximum Candela = 2237   Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Axial Candela Display
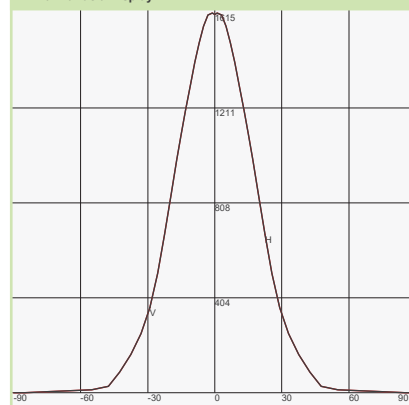
Maximum Candela = 1615   Located At Horizontal Angle =-1, Vertical Angle = 0
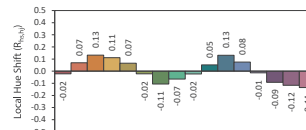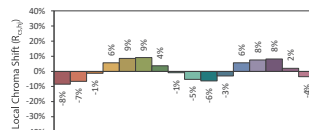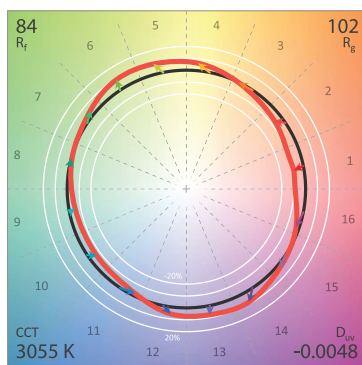H - Horizontal Axial Candela
V - Vertical Axial Candela
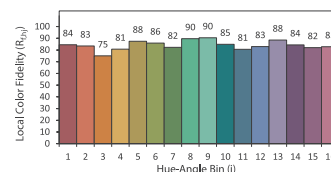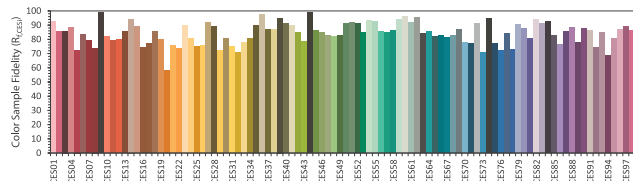
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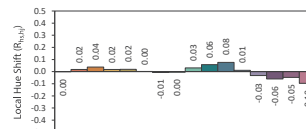## Adjustable or Fixed Square Lipstick
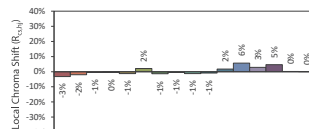
Project Name: | Type:
Catalog Number: | Date:
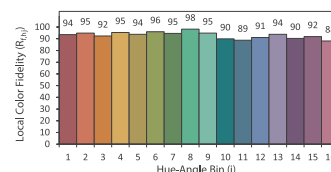
Clarté Lighting 3000K 80+ CRI Color Metrics

84 R_f | 102 R_g
CCT 3055 K | D_{uv} -0.0048

Local Chroma Shift ($R_{cs,h}$): -8%, -7%, -1%, 6%, 9%, 9%, 4%, -1%, -5%, -6%, -3%, 6%, 8%, 8%, 2%, -4%

Local Hue Shift ($R_{hs,h}$): -0.02, 0.07, 0.13, 0.11, 0.07, -0.02, -0.11, -0.07, -0.02, 0.05, 0.13, 0.08, -0.01, -0.09, -0.12, -0.14

CIE 13.3-1995 (CRI): R_a 86, R_9 29

Local Color Fidelity ($R_{f,h}$): 84, 83, 75, 81, 88, 86, 82, 90, 90, 85, 81, 83, 88, 84, 82, 83
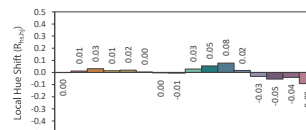
Clarté Lighting 3000K 90+ CRI Color Metrics

93 R_f | 101 R_g
CCT 3129 K | D_{uv} -0.0016

Local Chroma Shift ($R_{cs,h}$): -3%, -2%, -1%, 0%, 2%, -1%, -1%, -1%, -1%, -1%, 2%, 6%, 3%, 5%, 0%, 0%

Local Hue Shift ($R_{hs,h}$): 0.00, 0.02, 0.04, 0.02, 0.02, 0.00, -0.01, 0.00, 0.03, 0.06, 0.08, 0.01, -0.08, -0.06, -0.05, -0.10

CIE 13.3-1995 (CRI): R_a 95, R_9 74

Local Color Fidelity ($R_{f,h}$): 94, 95, 92, 95, 94, 96, 95, 98, 95, 90, 89, 91, 94, 91, 92, 88
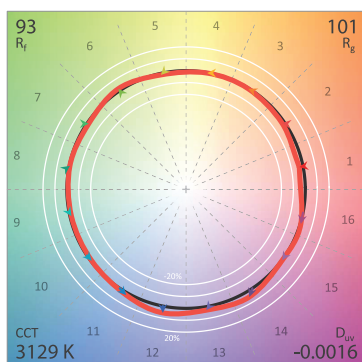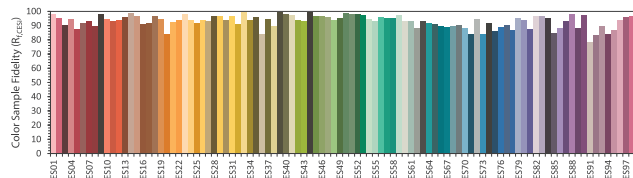
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics

94 R_f | 101 R_g
CCT 3058 K | D_{uv} -0.0014

Local Chroma Shift ($R_{cs,h}$): -3%, 0%, -1%, -1%, 2%, -1%, 0%, -1%, -1%, 2%, 5%, 3%, 5%, 0%, 1%

Local Hue Shift ($R_{hs,h}$): 0.00, 0.01, 0.03, 0.01, 0.02, 0.00, 0.00, -0.01, 0.03, 0.05, 0.08, 0.02, -0.03, -0.05, -0.04, -0.09

CIE 13.3-1995 (CRI): R_a 96, R_9 79
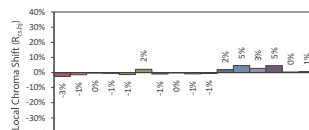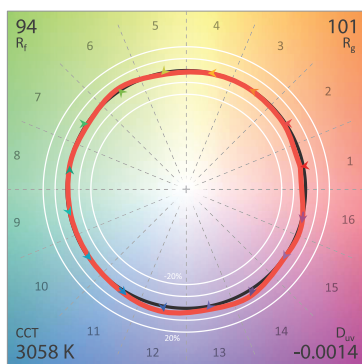
Local Color Fidelity ($R_{f,h}$): 95, 96, 94, 96, 94, 96, 95, 98, 95, 91, 89, 91, 94, 91, 93, 89
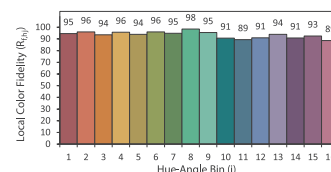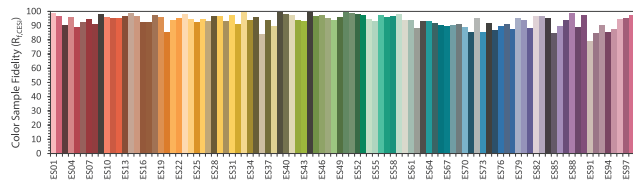
Clarté Lighting 3000K 90+ CRI Dimmed Halogen Lens (DH) Color Metrics

93 R_f | 98 R_g
CCT 2717 K | D_{uv} 0.0008

Local Chroma Shift ($R_{cs,h}$): -4%, -2%, -1%, -3%, -2%, -1%, -3%, 0%, -1%, 1%, 2%, 4%, 1%, 1%, -3%, -3%

Local Hue Shift ($R_{hs,h}$): 0.01, 0.01, 0.02, -0.01, 0.01, 0.01, 0.01, 0.02, 0.03, 0.05, 0.05, -0.03, -0.07, -0.09, -0.02, -0.09

CIE 13.3-1995 (CRI): R_a 95, R_9 64

Local Color Fidelity ($R_{f,h}$): 92, 95, 95, 96, 97, 95, 97, 94, 93, 93, 92, 91, 89, 92, 88

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