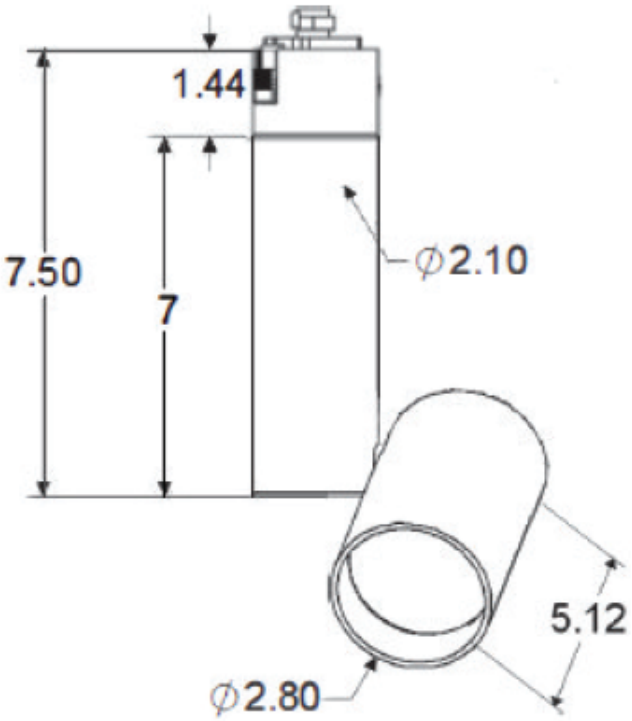
SDT-837-PAR20-LM

Vertical Round Low Mount Track

Project Name:		Type:	
Catalog Number:		Date:	



Key Features

- 2.75” OD
- Up to 4 accessories
- Toolless locking LED optic
- 400° Rotation at top
- 358° Rotation on CML stem
- 45° Rotation on CML knuckle
- Remote transformer optoin
- Over 10,000+ fixture custom color finish options
- 100,0000+ hr L70 life
- Wall or ceiling mount
- **See Page 3 for additional mounting options**

LED Source Details

CREE XPL LED maximum rating = 3,000mA

- Fixture operating milliamp range = 450mA to 1200mA.
- Operating 15% to 40% of rated value
- Fixture wattage range = 8W to 20W
- Fixture delivered lumens = 700 to 1,300 lumens

Last revised: 05/19/2025

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Clarté Lighting

SDT-837-PAR20-LM

Vertical Round Low Mount Track

Ordering

Project Name:		Type:	
Catalog Number:		Date:	

SDT-837- [ ] [ ] [ ] -PAR20-LM- [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Surface Directional Track

(a) Driver (b) Wattage (c) LED (d) Beam (e) Color (f) Stem (g) Mounting (h) Accessories (i) Options (i) Chromaticity

(a) Driver Options

E	=	ON/OFF (Electronic)
D	=	MLV .01% Dimming (2 wire)
ED	=	Electronic Reverse Phase Dimming 1% (2 wire)
0-10V1	=	0-10V 1% Dimming (3 wire)
RDM DMX	=	16 Bit, 4 Channel (2 wire with CAT5)

(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) LED Type Options

XLED = Cree XPL2 LED @ All Wattages

(d) Beam Options

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

(e) Fixture Color Options

BLK	=	Black	WHT	=	White
PWT	=	Pewter			

Custom colors available

(f) Stem Options

S6	=	Stem Size 6”	S18	=	Stem Size 18”
S12	=	Stem Size 12”	CS*	=	Custom Stem

*Custom up to 24”

(g) Mounting Options

CLP	=	C-Clamp	CLPD	=	C-Clamp + Plug MLV
2PC	=	2” Pipe Clamp	FCP	=	Flat Canopy Plate
FCPS	=	Flat Canopy Plate with Stem			

(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 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

(i) Options

BTS	=	Black Tapered Snoot
WTS	=	White Tapered Snoot
WBTS	=	White Exterior / Black Interior
WWSN	=	Wall Wash Snoot
80+	=	CRI over 80
90+	=	CRI over 90
120V	=	120VAC 60Hz (Standard)
230V	=	230VAC 50Hz (Used in conjuction with 230V track)
277V	=	277VAC 60Hz (Used in conjuction with 277V track)
347V	=	347VAC 60Hz
HLO	=	Halo **(Standard)**
JNO	=	Juno Compatible (Special Order)
LTO	=	Lightolier Compatible (Special Order)
EP	=	Edison Price Buss Adapter (Special Order)
LSI	=	Lighting Services Track
PL*	=	Coil Grounded Plug
DMX*	=	.39% to 100% 1200 milliamp constant voltage LED driver, dip switch addressable, 3 channel for 27K & 30K, 4 channel for RGBW, CAT5 in & out*

*DMX is required in RGBW or in any 2 circuits or more.

(j) 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)
60K	=	6500 Kelvin (12 noon sunlight)

*1050 mA or less

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

**700 mA
***Must utilize DMX @ 700 mA

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Specifications

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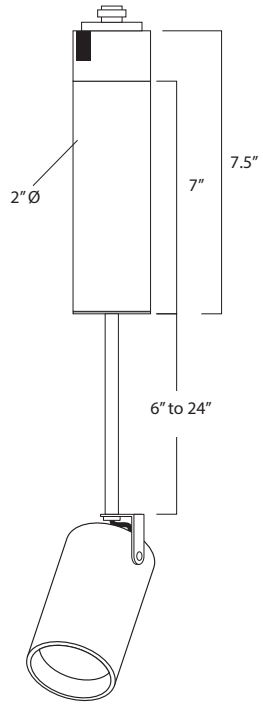
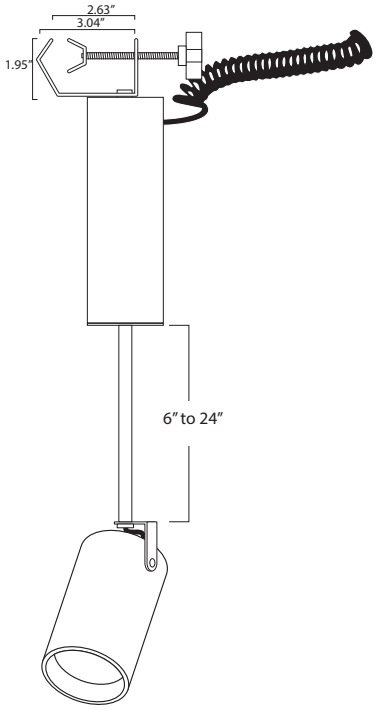
Catalog Number:		Date:	

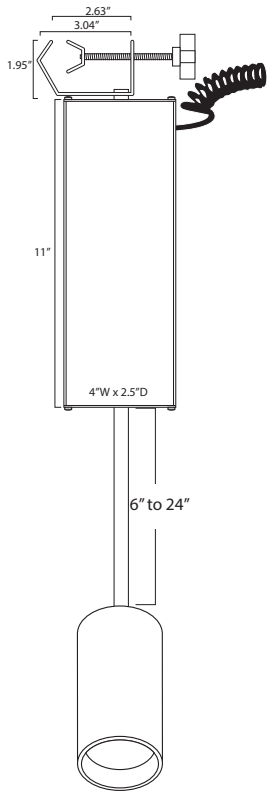
Stem Option
(with standard MLV 0-10 driver)



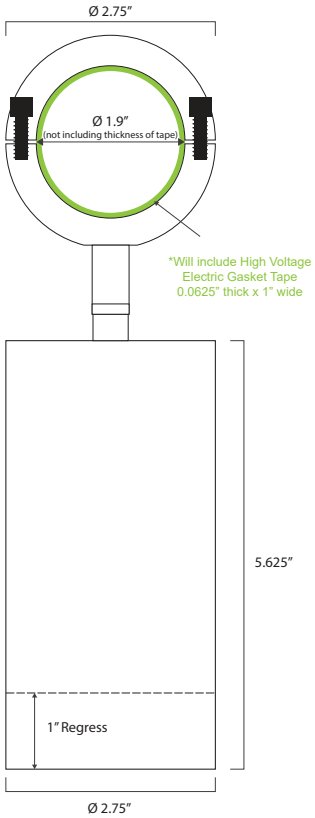
Stem with C-Clamp
(with standard MLV 0-10 driver)



C-Clamp + Plug MLV
(with DMX driver)



2" Pipe Clamp



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
- DC – 12V or 24V
- 0-10V – 3 wire 1% LED driver
- 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

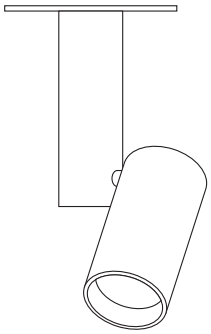
Installation

Track Adapter
- Standard Halo compatible.
- Special Order Track Adapter - Juno, Lightolier, LSI or Esion Price Adapters.

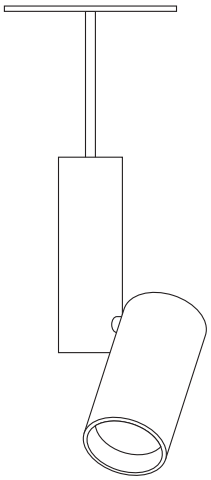
Certification
- UL Damp Listed – IP 52

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

Flat Canopy Plate

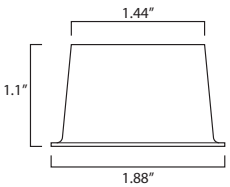


Canopy Plate with Stem



Tapered Snoot (TSN) -

Reduce surface brightness and diameter of the beam field with a 1.44" opening, a -36% reduction in the optic face.



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Clarté Lighting

SDT-837-PAR20-LM

Vertical Round Low Mount Track

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

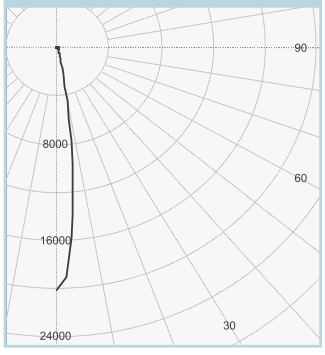
Intensity Summary (cd)

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	

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

All planes - Solid (cd)



(Rotational Symmetry)

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

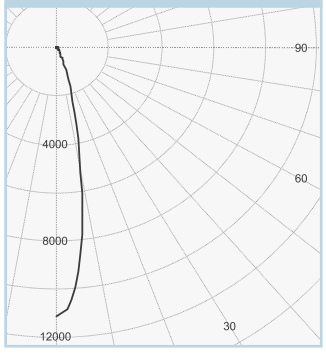
Intensity Summary (cd)

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	

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

All planes - Solid (cd)



(Rotational Symmetry)

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

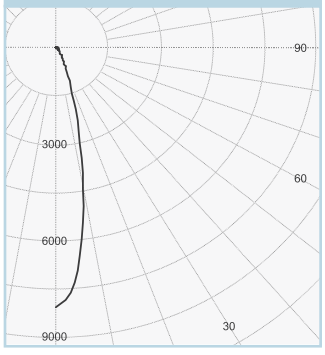
Intensity Summary (cd)

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	

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

All planes - Solid (cd)



(Rotational Symmetry)

Flood

2’	fc	’
4’	fc	’
6’	fc	’
8’	fc	’
10’	fc	’
12’	fc	’

28W PAR20 - 1,721 lm

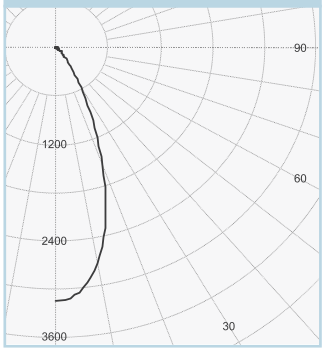
Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	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	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)

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Clarté Lighting

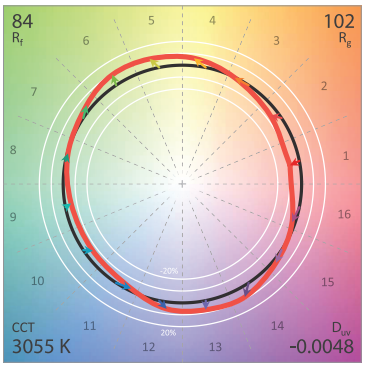
SDT-837-PAR20-LM

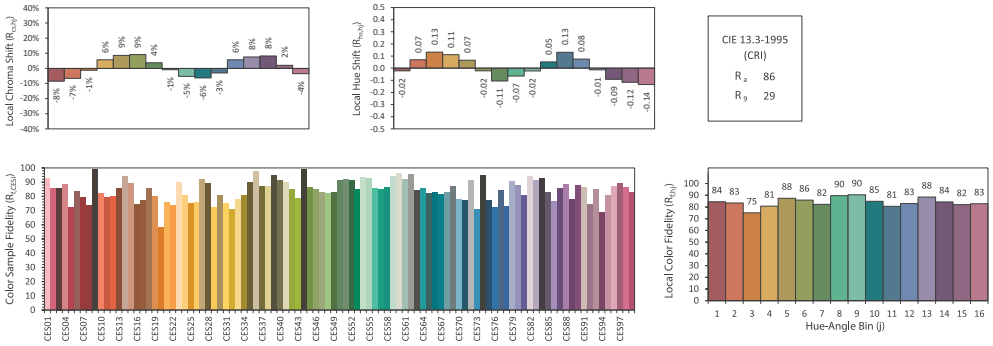
Vertical Round Low Mount Track

TM-30-18 Color Metrics

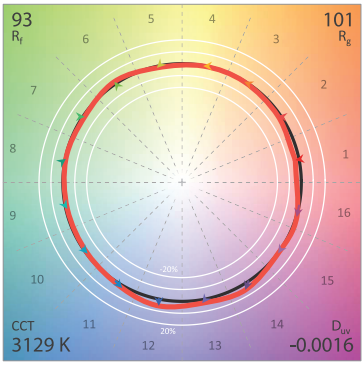
Project Name:		Type:	
Catalog Number:		Date:	

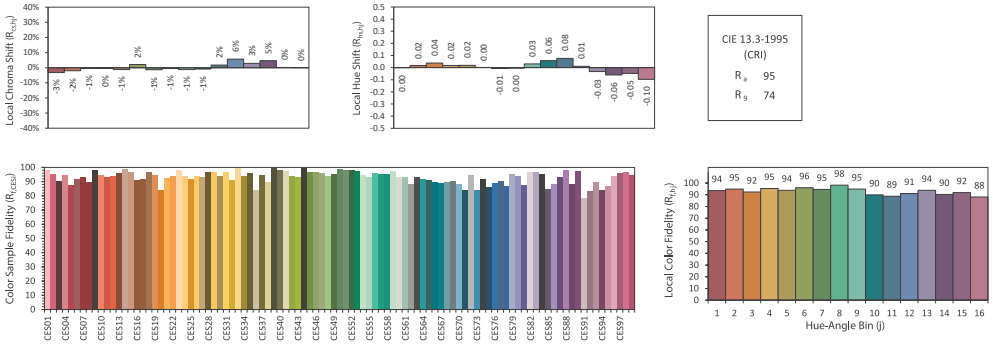
Clarté Lighting 3000K 80+ CRI Color Metrics



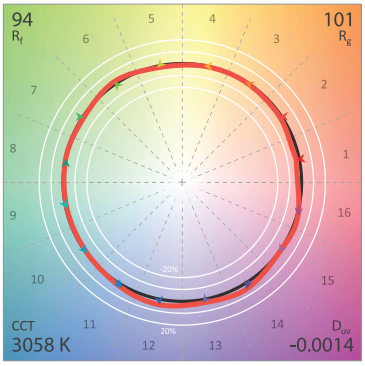


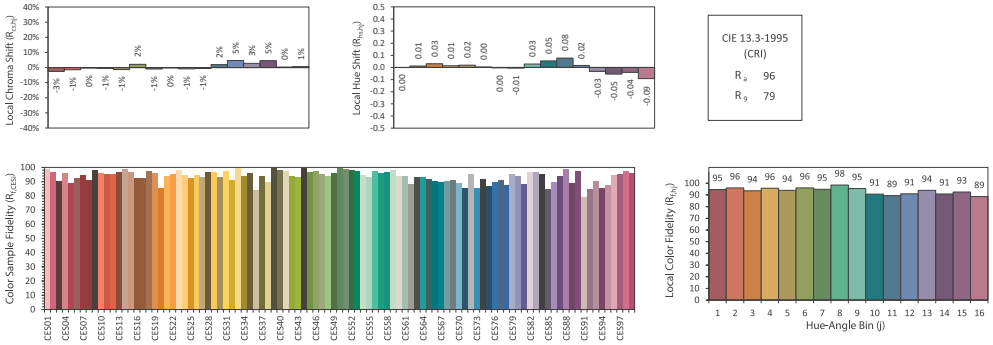
Clarté Lighting 3000K 90+ CRI Color Metrics



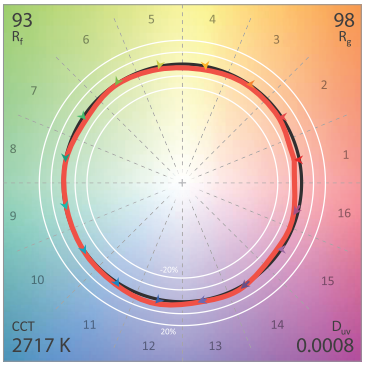


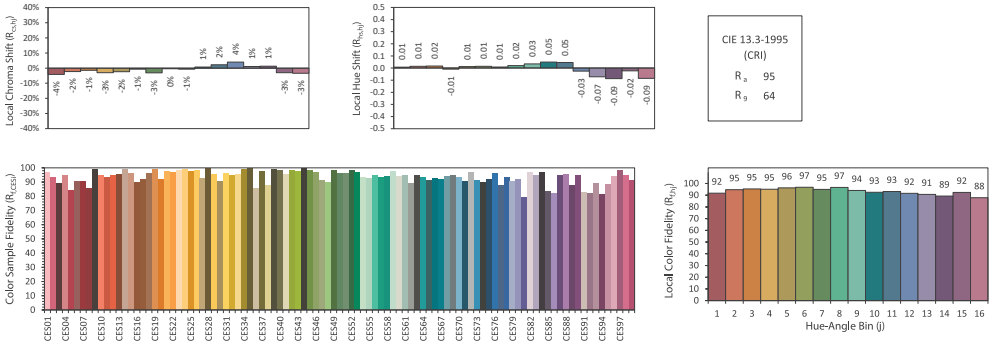
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics





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





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