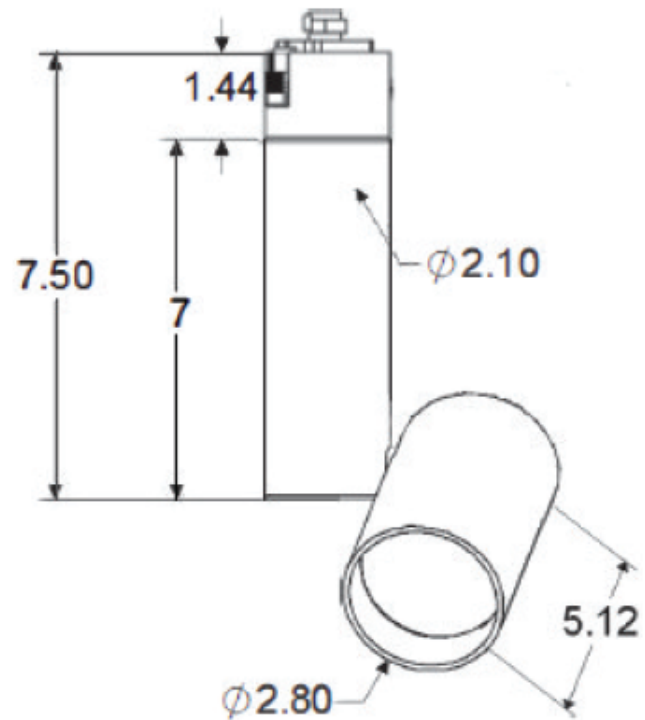


SDT-837-PAR20-LM

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
- 100,000+ hr L70 life
- Wall or ceiling mount
- **See Page 3 for additional mounting options**

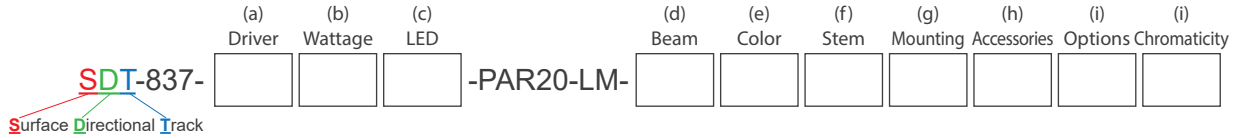
LED Source Details

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: 05/13/2024

| | | | |
|-----------------|--|-------|--|
| Project Name: | | Type: | |
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(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
- SP = Spot
- NFL = Narrow Flood
- FL = Flood

(e) Fixture Color Options

- BLK = Black
- WHT = White
- PWT = Pewter
- Select Custom Color (Review Website for Over 3,300 Color Options)

(f) Stem Options








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

*Custom up to 24"

(g) Mounting Options

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

(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 Hair 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 conjunction with 230V track)
- 277V = 277VAC 60Hz (Used in conjunction 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
- FCP = Flat Canopy Plate
- CP = Canopy Plate
- C* = C-Clamp
- 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.
Custom colors available - Consult factory for more details

(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 |
| 60K = 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

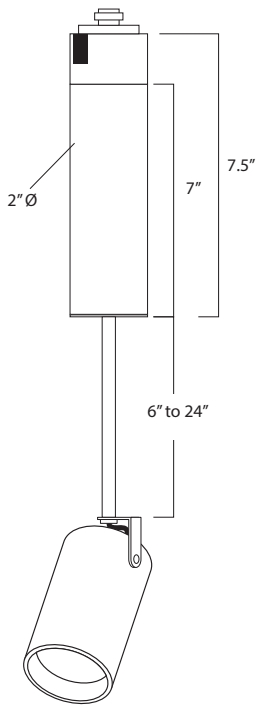
****Must utilize DMX @ 700 mA

SDT-837-PAR20-LM

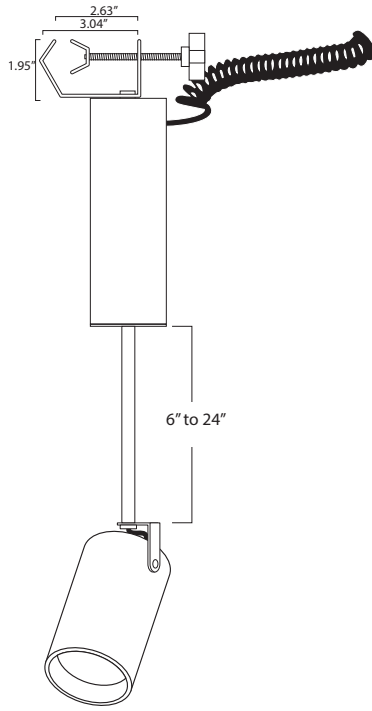
Vertical Round Low Mount Track

| | | | |
|-----------------|--|-------|--|
| Project Name: | | Type: | |
| Catalog Number: | | Date: | |

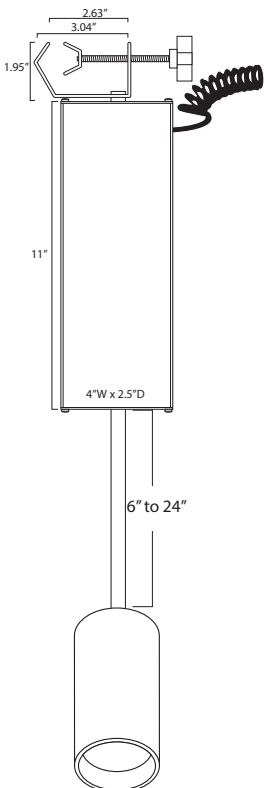
Stem Option
(with standard MLV 0-10 driver)



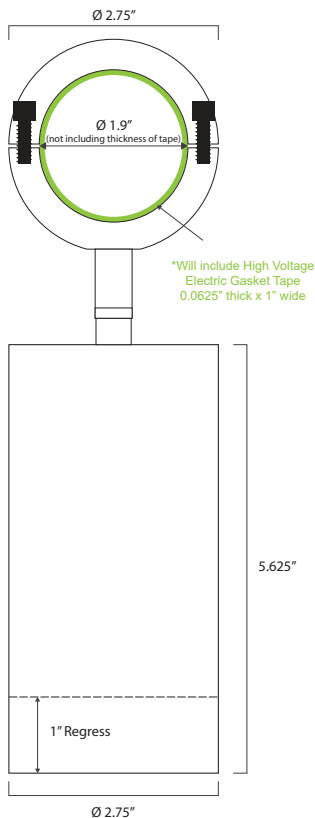
Stem with C-Clamp
(with standard MLV 0-10 driver)



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.

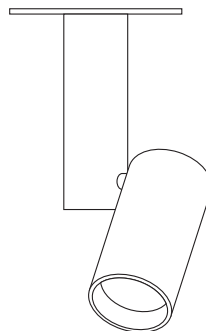
Certification

- UL Damp Listed – IP 52

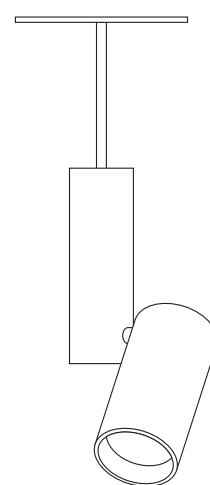
Warranty

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

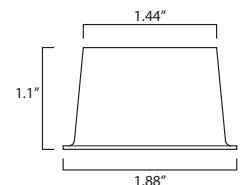
Flat Canopy Plate



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.



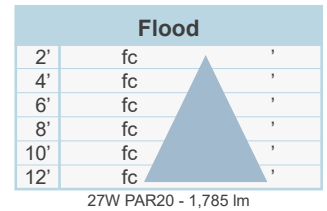
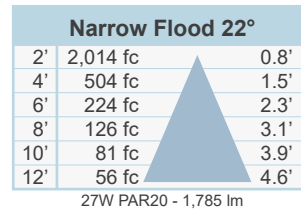
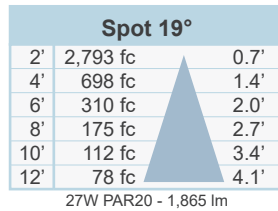
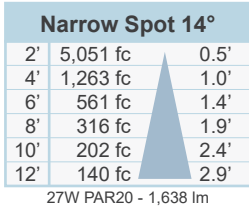
SDT-837-PAR20-LM

Vertical Round Low Mount Track

| | | | |
|-----------------|--|-------|--|
| Project Name: | | Type: | |
| Catalog Number: | | Date: | |

Wattage & Lumen Output

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



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

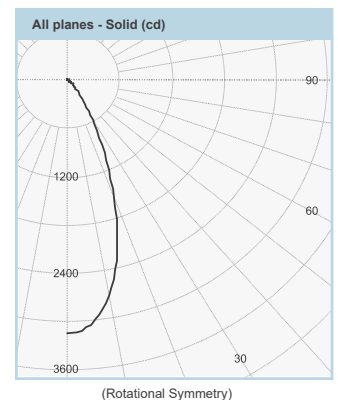
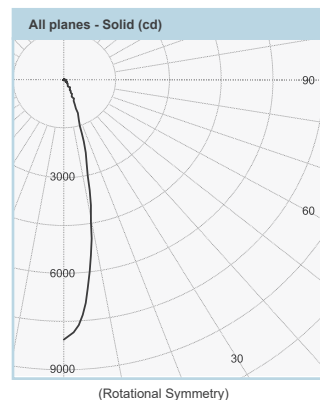
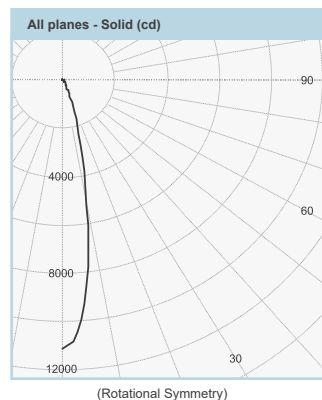
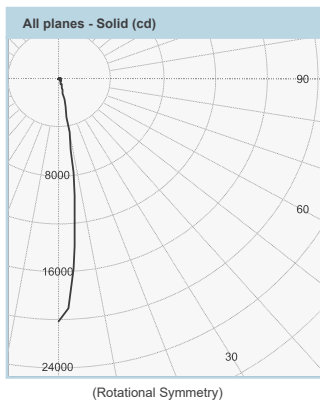
| Zone | Flux (lm) | %Luminaire |
|--------|-----------|------------|
| 0-30 | 1635 | 90.6 |
| 0-40 | 1729 | 94.6 |
| 0-60 | 1846 | 99.6 |
| 0-90 | 1865 | 100.0 |
| 40-90 | 136 | 5.4 |
| 60-90 | 19 | 0.4 |
| 90-180 | 0 | 0.0 |
| 0-180 | 1865 | 100.0 |

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 |

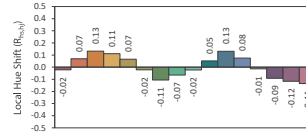
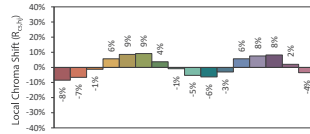
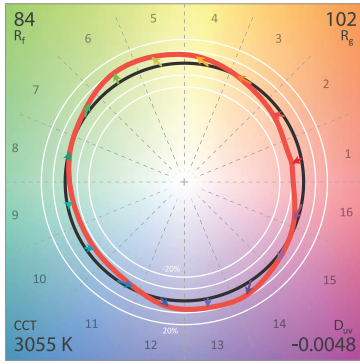
Zonal Flux and Percentages

| 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 |

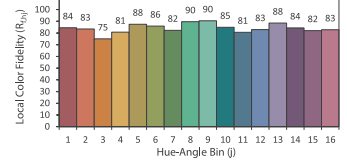
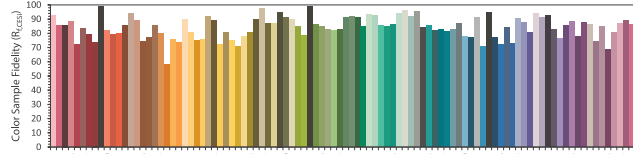


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| Project Name: | | Type: | |
| Catalog Number: | | Date: | |

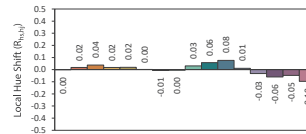
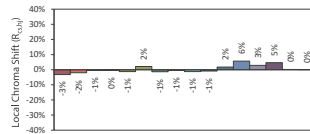
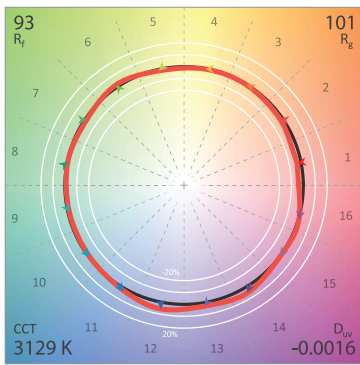
Clarté Lighting 3000K 80+ CRI Color Metrics



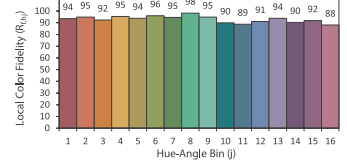
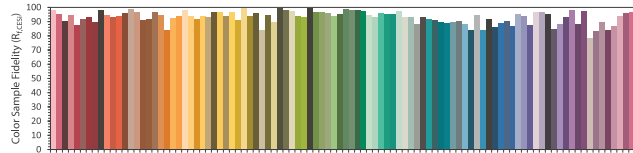
CIE 13.3-1995 (CRI)
R_a 86
R₉ 29



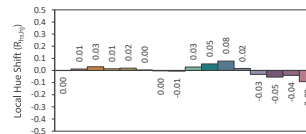
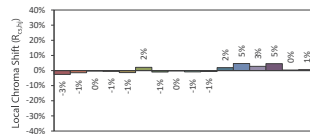
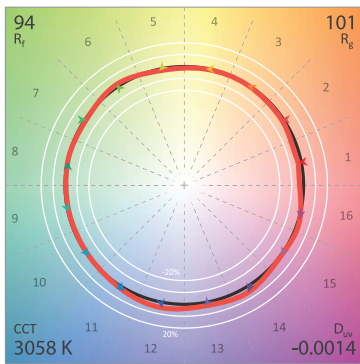
Clarté Lighting 3000K 90+ CRI Color Metrics



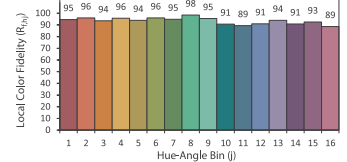
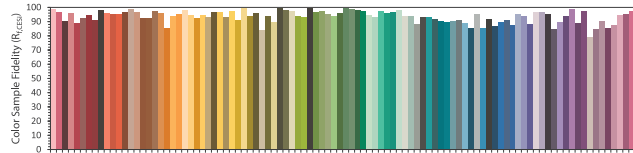
CIE 13.3-1995 (CRI)
R_a 95
R₉ 74



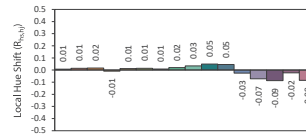
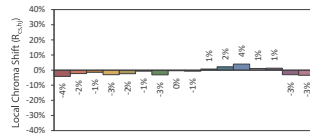
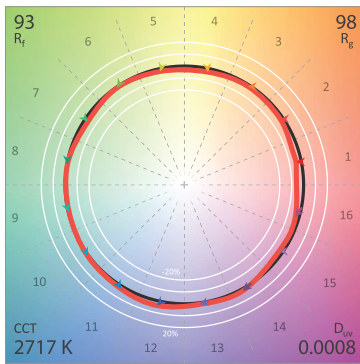
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



CIE 13.3-1995 (CRI)
R_a 96
R₉ 79



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



CIE 13.3-1995 (CRI)
R_a 95
R₉ 64

