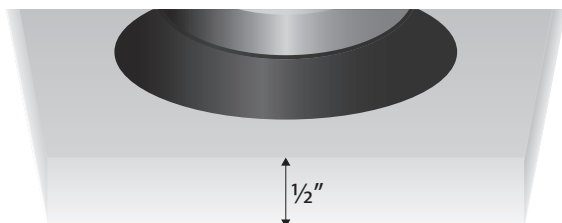


**RSR2-293-PAR16**

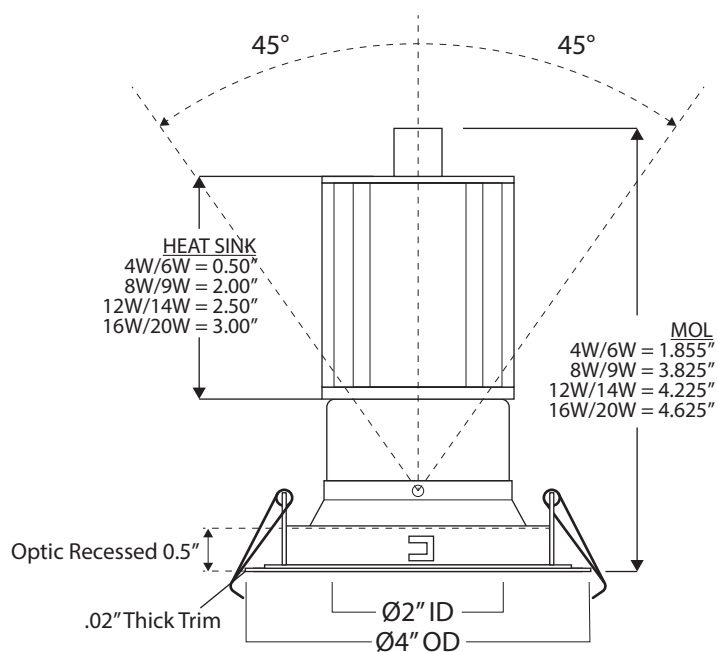
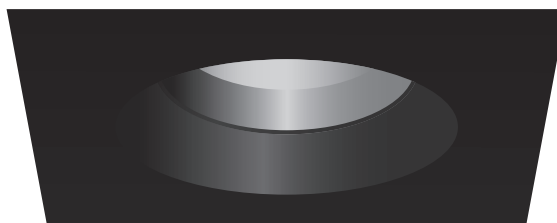
2" Square/Round Shallow 45° Adjustable

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

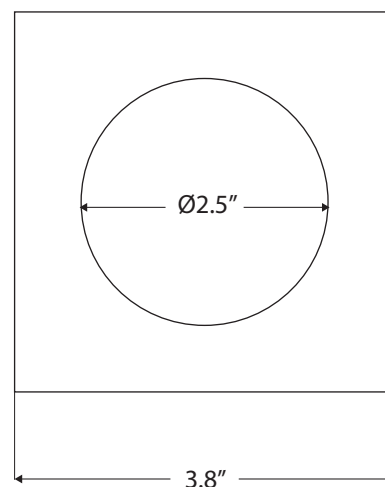
Trimless Inset



Recessed with Trim



WOS (Wire Out Side) - Reduces MOL 1/2"

**Key Features**

- 2.5" ID - 3.8" OD
- Adjustable
- 365° Rotation
- IC or NON IC version
- Remote Transformer Option
- .02" Uber Thin Trim Lip
- Over 10,000+ fixture custom color finish options
- 100,000+ L70 life

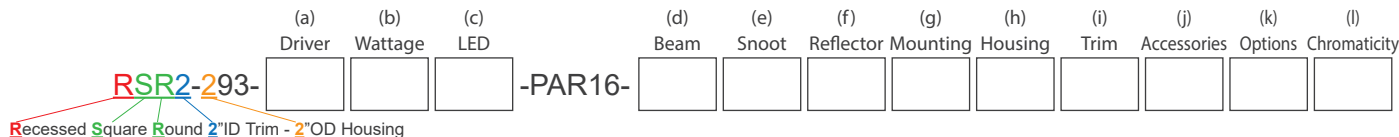
**LED Source Details**

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: 07/20/2026

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

**(a) Driver Options**

|              |                                                            |
|--------------|------------------------------------------------------------|
| E            | = ON/OFF (Electronic)                                      |
| D*           | = MLV Forward Phase .1% Dimming (2 wire)                   |
| ED           | = Electronic Forward and Reverse Phase Dimming 1% (2 wire) |
| 0-10V**      | = 1% 4 wire Dimming                                        |
| DALIV2**     | = 1% 4 wire Dimming                                        |
| 0-10V MRI*** | = 0-10V Dimming with 100bd Filter                          |
| RDM DMX      | = 16 Bit, 4 Channel (2 wire with CAT5)                     |
| ABS          | = Non DMX 32 bit Absolute Light .001% RGBW dimming         |
| ABSX         | = DMX 32 bit Absolute Light .001% RGBW dimming             |

**Solar, Wind or DC Battery Powered (no inverter) or ETC F- Drive**  
DC24V = .01% PWM DC (solar & wind) (2 wire)

\*MLV power supply is intended for use with forward phase SCR or Triac dimmers.

\*\*Remote 0-10V or DALI LED driver operates up to 4 fixtures up to 18' away 18ga and 100' 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 |

**(f) Reflector/Trim Lip Color Options**

|         |                                              |
|---------|----------------------------------------------|
| WHT/WHT | = White Reflector/White Trim Lip             |
| WHT/BLK | = White Reflector/Black Trim Lip             |
| BLK/BLK | = Black Reflector/Black Trim Lip             |
| BLK/WHT | = Black Reflector/White Trim Lip             |
| SA/WHT  | = Specular Aluminum Reflector/White Trim Lip |
| SA/BLK  | = Specular Aluminum Reflector/Black Trim Lip |

**(g) Mounting Options**

|     |                                               |
|-----|-----------------------------------------------|
| ADJ | = Adjustable                                  |
| FX  | = Fixed                                       |
| WOS | = Wires Out the Side (reduces height by 0.5") |

**(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              |

**IC Rated:**

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

**(i) Trim Type**

|    |                              |
|----|------------------------------|
| T  | = Trimmed                    |
| T1 | = Level Plane                |
| T2 | = Trimless ½" Recessed       |
| MT | = Micro Trim (½" smaller OD) |

**(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 eliminates all surface brightness. Creates stronger vertical cut off with -20% beam width.



CHL = Cross Hair Louver



H = Halogen - 100K warmer from 2700K to 2600K  
DHF = Dimmed Halogen Film - 300K warmer from 2700K to 2400K color  
DH = Dimmed Halogen - 400K warmer from 2700K to 2300K

**(k) 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         |
| 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.

**(l) 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 - 595 NM wavelength |
| Red      | = 620 - 630 NM wavelength |
| RGBW3K** | = Red, Green, Blue, White |
| RGBW4K** | = Red, Green, Blue, White |

\*1050 mA or less

†Special Order

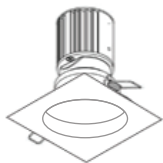
\*\*Must utilize DMX or Absolute Light

**RSR2-293-PAR16**

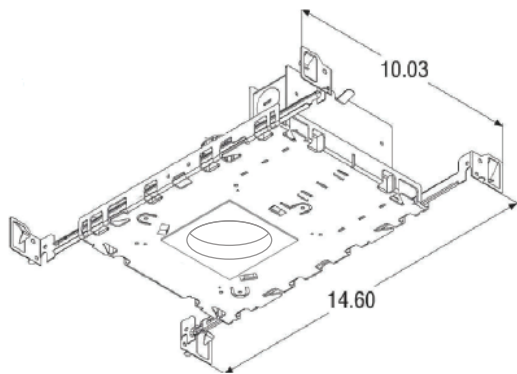
2" Square/Round Shallow 45° Adjustable

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

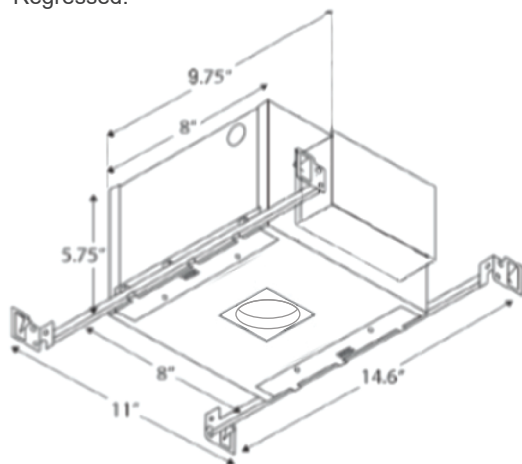
Non-IC: No Housing Remote Transformer Remodel - Trimmed



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



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

**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 Powder Coat Paint Colors
- 7000+ Custom Wet Paint Colors

**Level Plane and Trimless Installation**

- Available in trimless 1/2" recessed, and level plane

**Installation**

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

**Certification**

- UL Damp Listed – IP 52

**Warranty**

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

**RSR2-293-PAR16**

2" Square/Round Shallow 45° Adjustable

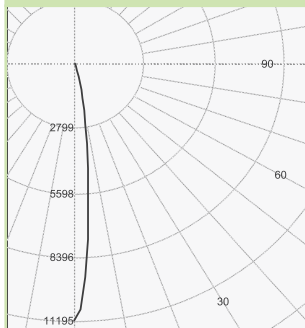
|                 |  |       |  |
|-----------------|--|-------|--|
| Project Name:   |  | Type: |  |
| Catalog Number: |  | Date: |  |

**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**

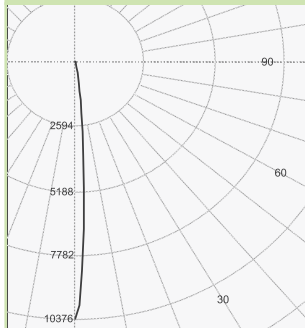
| Zone   | Flux (lm) | %Luminaire |
|--------|-----------|------------|
| 0-30   | 460       | 97.5       |
| 0-40   | 467       | 99.0       |
| 0-60   | 472       | 100.0      |
| 0-90   | 472       | 100.0      |
| 40-70  | 5         | 1.0        |
| 60-80  | 0         | 0.0        |
| 90-180 | 0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

**All planes - Solid (cd)**

(Rotational Symmetry)

**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)**

(Rotational Symmetry)

**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  |
|                              | MLV <1% Dimming   |                              |                  |
| 17W                          | Lutron 1% Dimming |                              |                  |
| 19W                          | 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         |            |
| <b>Total</b> | <b>2328</b> | <b>844</b> |

\*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°**

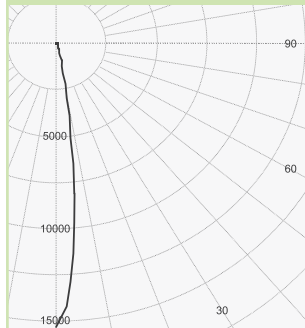
|     |          |       |
|-----|----------|-------|
| 2'  | 3,824 fc | 0.4'  |
| 4'  | 956 fc   | 0.9'  |
| 6'  | 425 fc   | 1.3'  |
| 8'  | 239 fc   | 1.8'  |
| 10' | 153 fc   | 2.2'  |
| 12' | 106 fc   | 2.7'  |
| 20' | 28 fc    | 5.2'  |
| 26' | 16 fc    | 7.0'  |
| 33' | 10 fc    | 8.7'  |
| 40'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

(Rotational Symmetry)

**Spot 19°**

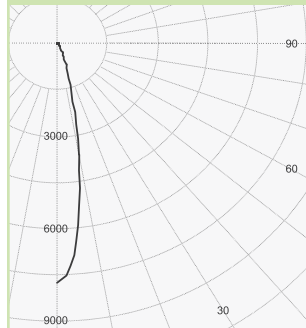
|     |          |       |
|-----|----------|-------|
| 2'  | 1,939 fc | 0.7'  |
| 4'  | 485 fc   | 1.4'  |
| 6'  | 215 fc   | 2.0'  |
| 8'  | 121 fc   | 2.7'  |
| 10' | 78 fc    | 3.4'  |
| 12' | 54 fc    | 4.1'  |
| 20' | 28 fc    | 6.1'  |
| 26' | 16 fc    | 8.1'  |
| 33' | 10 fc    | 10.1' |
| 40'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

(Rotational Symmetry)

**Narrow Flood 24°**

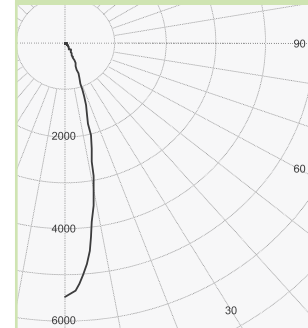
|     |          |       |
|-----|----------|-------|
| 2'  | 1,705 fc | 0.7'  |
| 4'  | 426 fc   | 1.4'  |
| 6'  | 189 fc   | 2.1'  |
| 8'  | 107 fc   | 2.8'  |
| 10' | 68 fc    | 3.5'  |
| 12' | 47 fc    | 4.3'  |
| 20' | 17 fc    | 7.5'  |
| 26' | 10 fc    | 10.0' |
| 33' | 6 fc     | 12.4' |
| 40'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

(Rotational Symmetry)

# Clarté Lighting

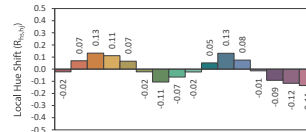
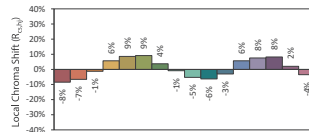
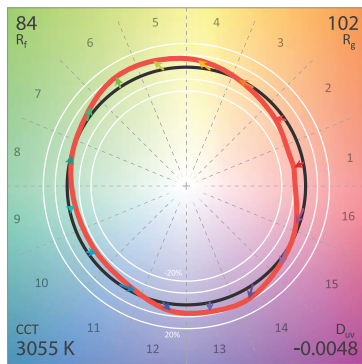
## RSR2-293-PAR16

2" Square/Round Shallow 45° Adjustable

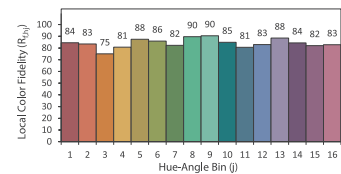
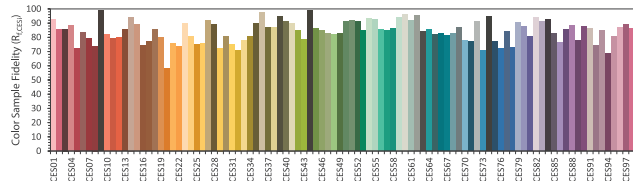
## TM-30-18 Color Metrics

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

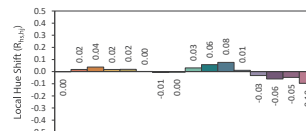
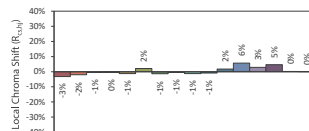
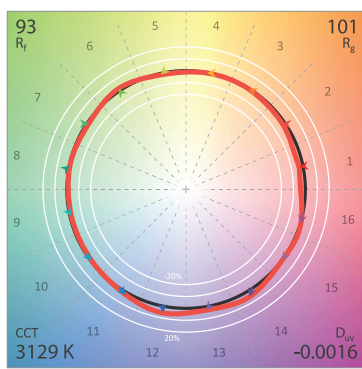
### Clarté Lighting 3000K 80+ CRI Color Metrics



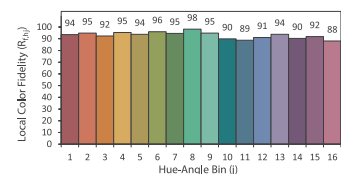
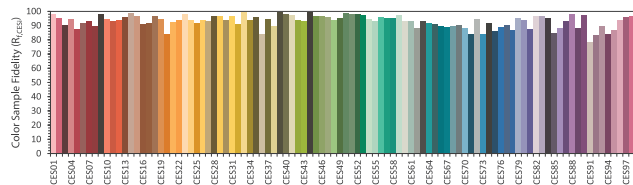
|                        |
|------------------------|
| CIE 13.3-1995<br>(CRI) |
| R <sub>a</sub> 86      |
| R <sub>g</sub> 29      |



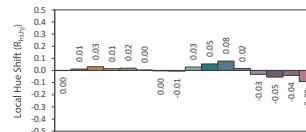
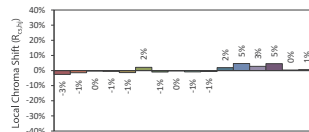
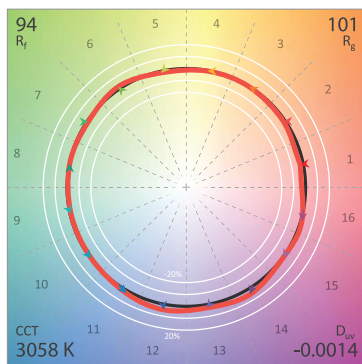
### Clarté Lighting 3000K 90+ CRI Color Metrics



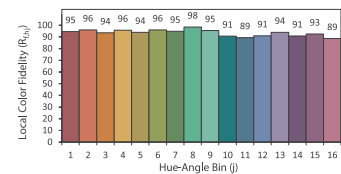
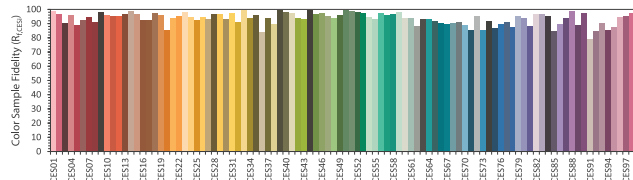
|                        |
|------------------------|
| CIE 13.3-1995<br>(CRI) |
| R <sub>a</sub> 95      |
| R <sub>g</sub> 74      |



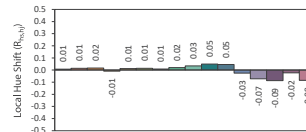
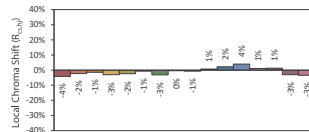
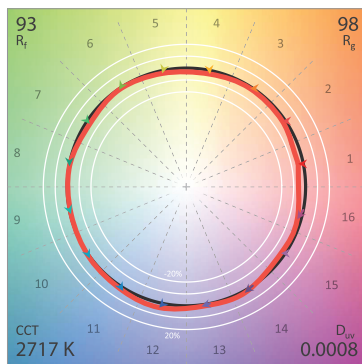
### Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



|                        |
|------------------------|
| CIE 13.3-1995<br>(CRI) |
| R <sub>a</sub> 96      |
| R <sub>g</sub> 79      |



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



|                        |
|------------------------|
| CIE 13.3-1995<br>(CRI) |
| R <sub>a</sub> 95      |
| R <sub>g</sub> 64      |

