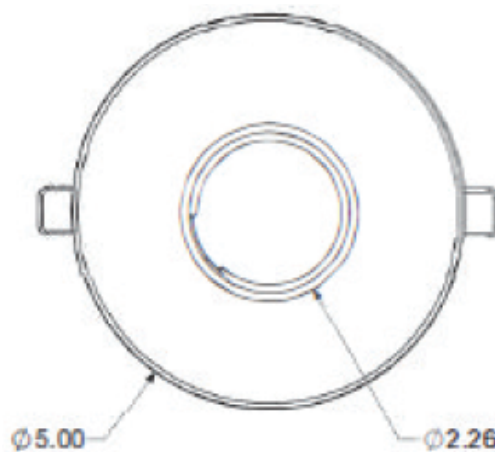
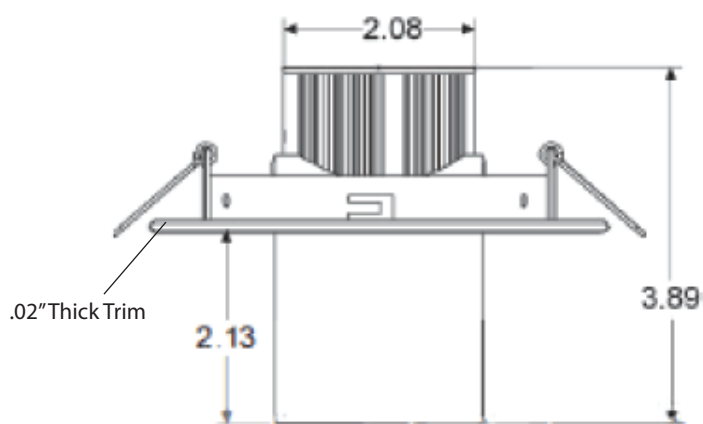
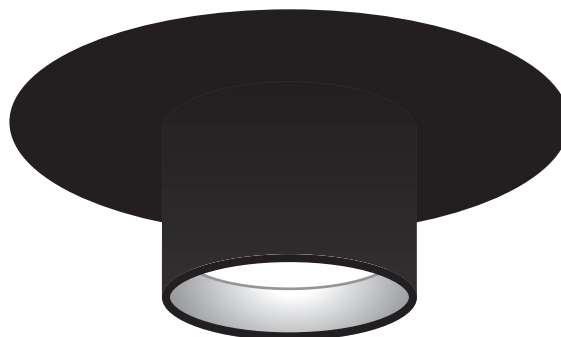


|                 |  |       |  |
|-----------------|--|-------|--|
| Project Name:   |  | Type: |  |
| Catalog Number: |  | Date: |  |

Trimless ½" Recessed



Recessed with Trim



#### Key Features

- 2.5" ID - 5" OD
- 365° Rotation
- IC or NON IC version
- Remote Transformer Optoin
- .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

# Clarté Lighting

## RR3-385-PAR16

### Fixed Semi-Recessed

Ordering

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

|  |               |                |            |         |             |              |                  |                 |                |             |                    |                |                     |
|--|---------------|----------------|------------|---------|-------------|--------------|------------------|-----------------|----------------|-------------|--------------------|----------------|---------------------|
|  | (a)<br>Driver | (b)<br>Wattage | (c)<br>LED | -PAR16- | (d)<br>Beam | (e)<br>Snoot | (f)<br>Reflector | (g)<br>Mounting | (h)<br>Housing | (i)<br>Trim | (j)<br>Accessories | (k)<br>Options | (l)<br>Chromaticity |
|  |               |                |            |         |             |              |                  |                 |                |             |                    |                |                     |

Recessed Round 3" ID Trim - 3" 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)          |
| 0-10V**       | = 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           | = Absolute Light .001% Dimming (use with RGBW)          |
| ABSX          | = DMX Absolute Light .001% RGBW dimming                 |

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

\*Do not use with relays or toggle switches, do not use with reverse phase dimmers.

\*\*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

|                   |                        |
|-------------------|------------------------|
| 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

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| <b>Non-IC Rated:</b> |                                                                                    |
| RMT                  | = No housing, no frame, remote transformer spring clip loaded trim                 |
| NIC                  | = Frame and junction box to be used with trim version                              |
| <b>IC Rated:</b>     |                                                                                    |
| 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 1/2" Recessed       |
| T3  | = Trimless                     |
| TLW | = Trimless Wood                |
| MT  | = Micro Trim (1/2" 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 Hiar Louver                                                                                                             |   |
| H   | = Halogen - 100K warmer. 2700k to 2500K                                                                                         |  |
| DH  | = Dimmed Halogen - 400K warmer. 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         |
| RMT    | = Remote transformer with remodel trim     |
| 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 |                                    | 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 |

\*1050 mA or less

\*\*700 mA

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

# Clarté Lighting

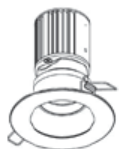
## RR3-385-PAR16

### Fixed Semi-Recessed

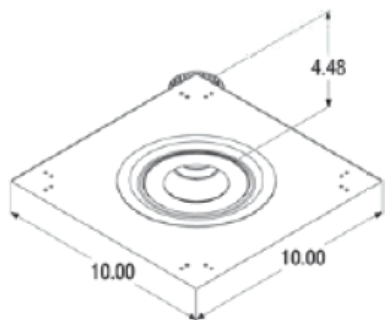
## Specifications

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

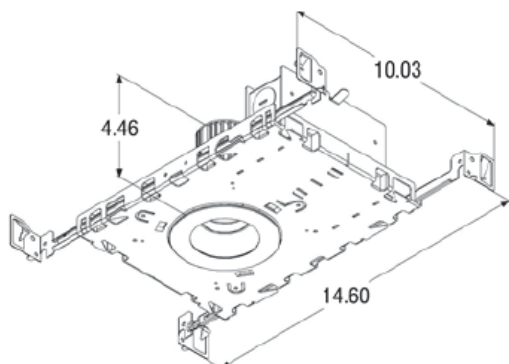
Non-IC: No Housing Remote Transformer Remodel - Trimmed



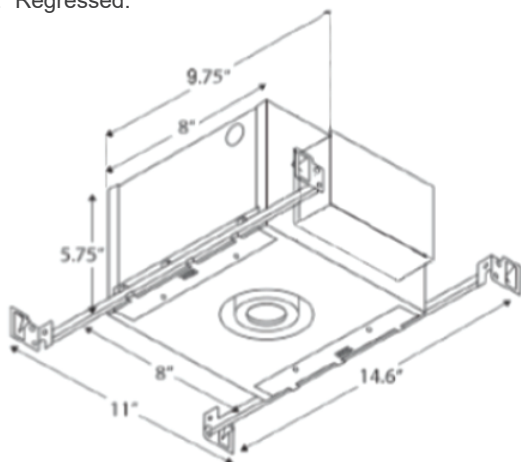
Non-IC: No Housing Remote Transformer Remodel - Trimless, Level Plane, or 1/2" Regressed.



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 Power Coat Paint Colors
- 7000+ Custom Wet Paint Colors

### Level Plane and Trimless Installation

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

### Installation

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

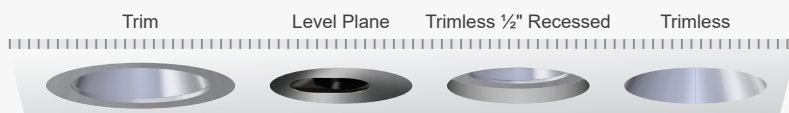
### Certification

- UL Damp Listed – IP 52

### Warranty

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

### 4 Trim Installation Options



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

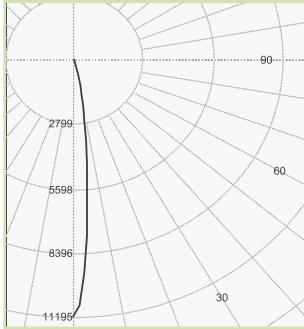
**Narrow Narrow Spot 8.5°**

|       |          |      |
|-------|----------|------|
| 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

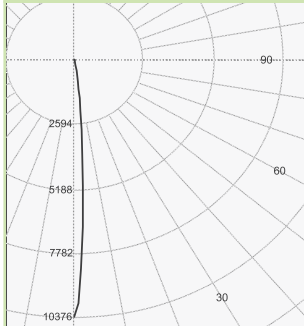
**Zonal Flux and Percentages**

| 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)****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)****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  |
| 17W                          | MLV <1% Dimming   |                              |                  |
| 19W                          | Lutron 1% Dimming |                              |                  |
|                              | 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' |

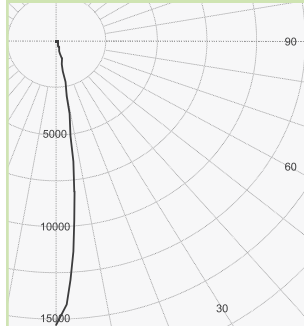
20W PAR16 - 1,100 lm  
15,296 CBCP

**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)****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' |

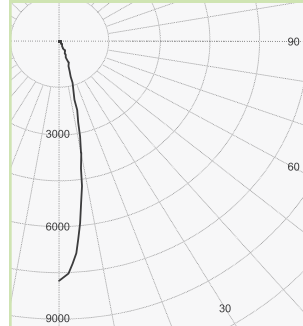
20W PAR16 - 1,313 lm  
7,757 CBCP

**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)****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' |

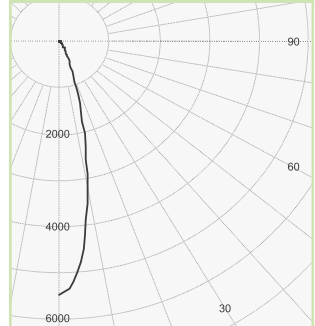
20W PAR16 - 1,306 lm  
5,478 CBCP

**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)**

# Clarté Lighting

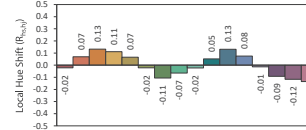
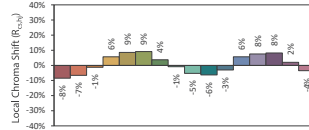
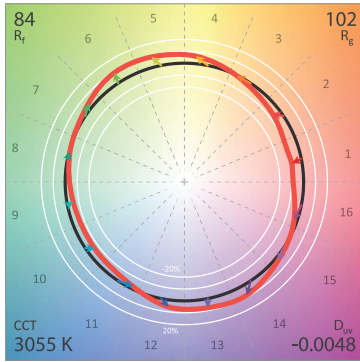
## RR3-385-PAR16

Fixed Semi-Recessed

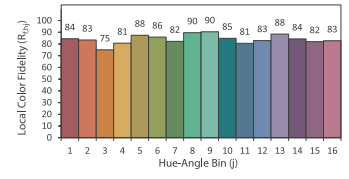
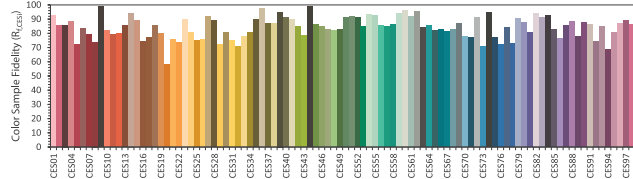
## TM-30-18 Color Metrics

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

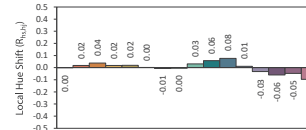
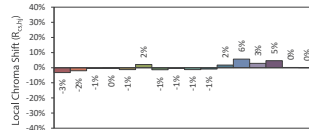
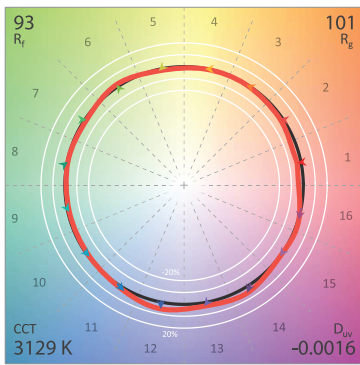
### Clarté Lighting 3000K 80+ CRI Color Metrics



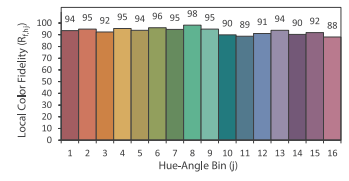
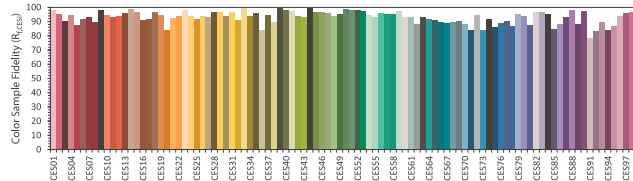
CIE 13.3-1995  
(CRI)  
R<sub>a</sub> 86  
R<sub>g</sub> 29



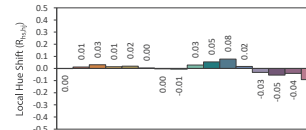
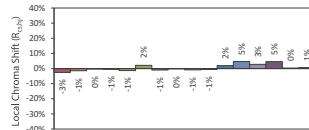
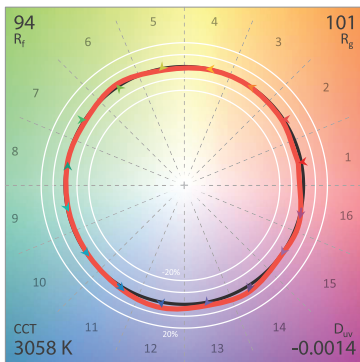
### Clarté Lighting 3000K 90+ CRI Color Metrics



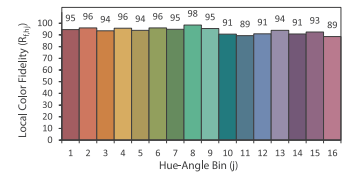
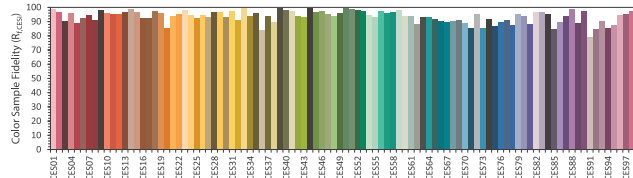
CIE 13.3-1995  
(CRI)  
R<sub>a</sub> 95  
R<sub>g</sub> 74



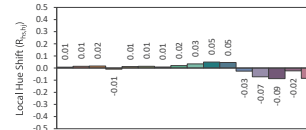
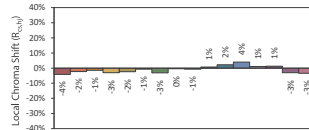
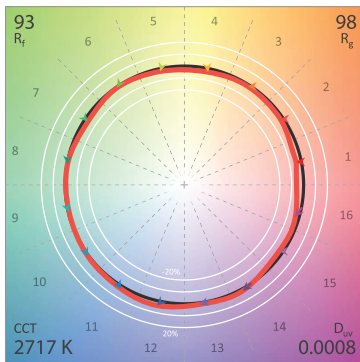
### Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



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

