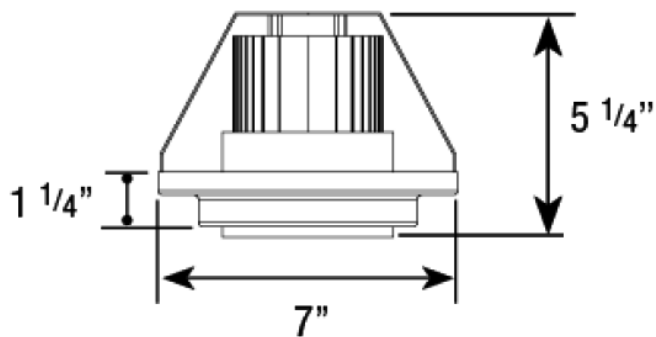


**RET-413-PAR38-56\_64**

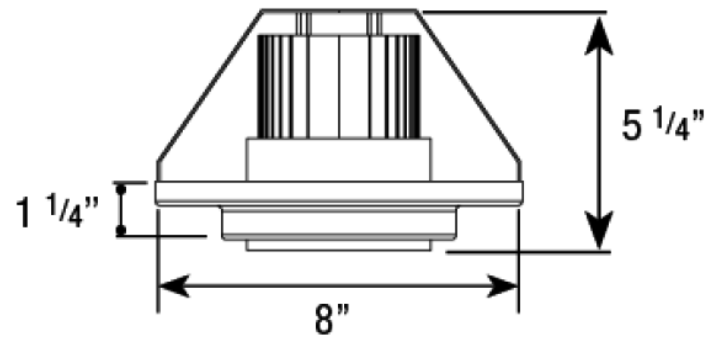
PAR56/64 Reducer Rings

Project Name:		Type:	
Catalog Number:		Date:	

PAR56  
to PAR38 Reducer



PAR64  
to PAR38 Reducer

**Key Features**

- Easily upgrade existing fixtures
- No disruption to ceiling
- Replace existing CMH or Halogen optics
- Replace continuous slot optics
- Universal 5/8" threaded nipple mount
- New optic mounts into same mounting hole
- Remote LED Driver
- Double jointed adjustable bracket
- **See Page 3 for additional mounting options**

**LED Source Details**

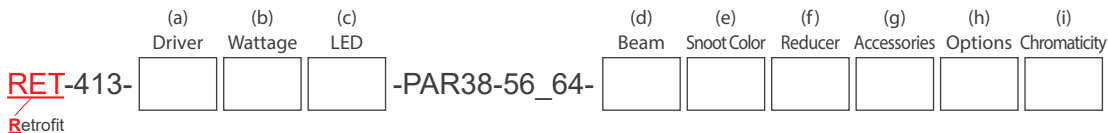
- CREE XML2 LED maximum rating 3,000 mA
- Fixture operating milliamps = 700 mA – 1,400 mA
  - Operating 23% to 47% of rated value
  - Fixture Delivered Lumens = 3500 lumens

Last revised: 04/03/2024

# RET-413-PAR38-56\_64

PAR56/64 Reducer Rings

Project Name:		Type:	
Catalog Number:		Date:	



**(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)
- DL = Hi-Lume 1% (2 wire) 120V (LTE series)
- RDM DMX = 16 Bit, 4 Channel (2 wire with CAT5)
- ABS = Absolute Light .001% Dimming (use with RGBW)

\*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.

**(b) Wattage Options**

- 68W = DMX/RGBW, ON/OFF, 0-10V 1%, MLV <1% Dimming, ELV
- 70W = 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) Snoot Color Options**

- BLKS = Black Snoot
- WHTS = White Snoot
- PWTS = Pewter Snoot

**(f) Reducer**

- 56R38 = PAR56 TO CPAR38 Reducer
- 64R38 = PAR64 TO CPAR38 Reducer

**(f) 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 

**(g) Options**

- EMG = 90 minute emergency battery backup
- 80+ = CRI over 80
- 90+ = CRI over 90
- 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.

**(h) Color Temperature Options**

- |  |                                      |
|--|--------------------------------------|
| <b>White LED</b>                       | <b>Colored/Themed LED</b>            |
| 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    |
| 65K = 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

**RET-413-PAR38-56\_64**

PAR56/64 Reducer Rings

Project Name:		Type:	
Catalog Number:		Date:	

**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

**Optics**

- TIR discrete injection molded polycarbonate precision LED optic
- 45-degree vertical cut off

**Installation**

- IPS Nipple - Unistrut (Not provided)

**Certification**

- UL Damp Listed – IP 52

**Warranty**

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

# RET-413-PAR38-56\_64

PAR56/64 Reducer Rings

Project Name:		Type:	
Catalog Number:		Date:	

### Wattage & Lumen Output


1400 Milliamps - 5000 Lumens	
68W	ON/OFF
	0-10V 1% Dimming
70W	DMX 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	

### Narrow Flood 21°

2'	5,157 fc	0.7'
4'	1,289 fc	1.5'
6'	573 fc	2.2'
8'	322 fc	3.0'
10'	206 fc	3.7'
12'	143 fc	4.4'

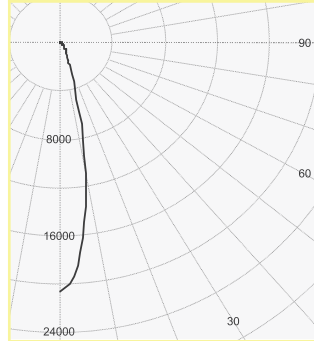


67W PAR38 - 4,266 lm

### Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	3369	79.0
0-40	3739	87.7
0-60	4197	98.4
0-90	4266	100.0
40-90	527	12.3
60-90	69	1.6
90-180	0	0.0
0-180	4266	100.0

### All planes - Solid (cd)



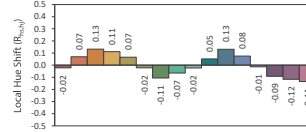
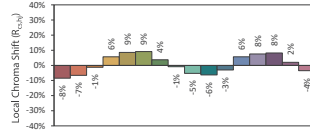
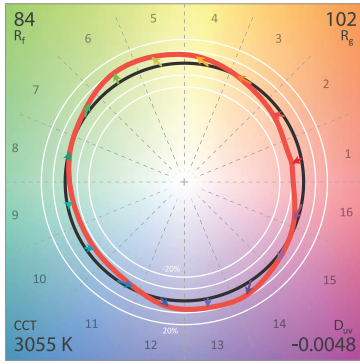
(Rotational Symmetry)

### Intensity Summary (cd)

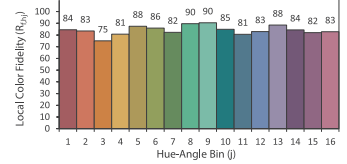
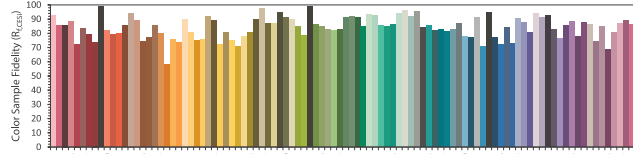
Gamma	All Planes	Flux (lm)
0	20628	
5	17468	1451
10	10916	
15	4848	1396
20	1966	
25	1066	522
30	764	
35	582	370
40	476	
45	381	295
50	291	
55	177	163
60	103	
65	73	65
70	14	
75	3	4
80	1	
85	0	1
90	0	

Project Name:		Type:	
Catalog Number:		Date:	

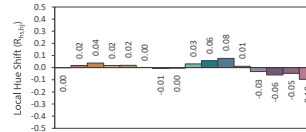
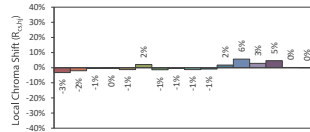
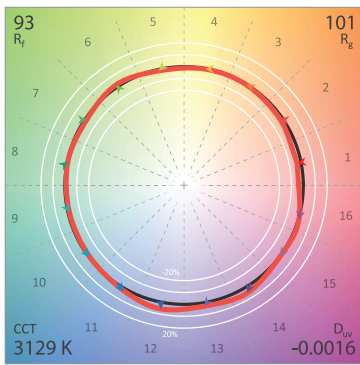
### Clarté Lighting 3000K 80+ CRI Color Metrics



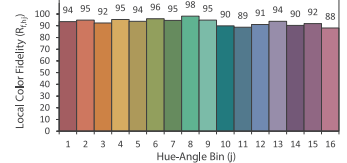
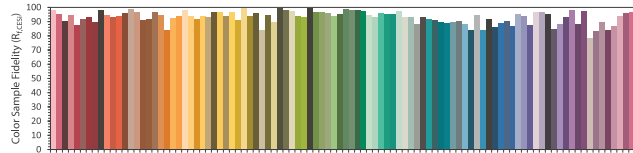
CIE 13.3-1995 (CRI)  
 $R_a$  86  
 $R_g$  29



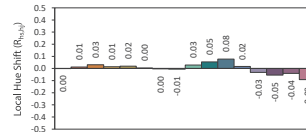
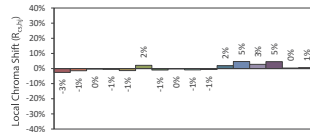
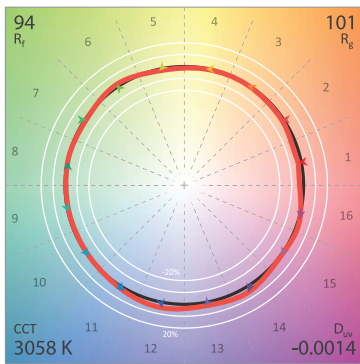
### Clarté Lighting 3000K 90+ CRI Color Metrics



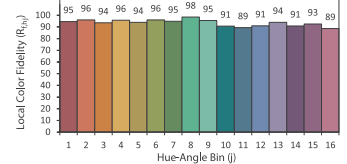
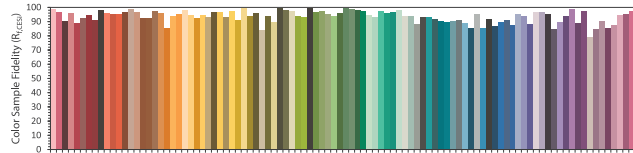
CIE 13.3-1995 (CRI)  
 $R_a$  95  
 $R_g$  74



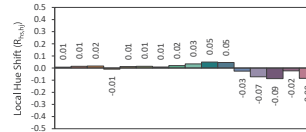
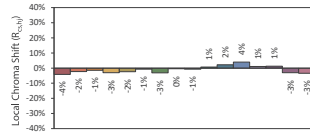
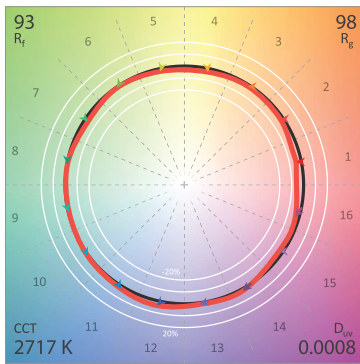
### Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



CIE 13.3-1995 (CRI)  
 $R_a$  96  
 $R_g$  79



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



CIE 13.3-1995 (CRI)  
 $R_a$  95  
 $R_g$  64

