Project Name:		Type:	
Catalog Number:		Date:	

3.5″

35° Fixed Angle

2.125″

6″Ø

1.3″ x 1.25″ Opening

1.5″

358° Rotation Allows for Left and Right installation

LOCK

1/16″ Riase Around Optic Opening Make Mudding/Installation Easier

Key Features

- 0.75" Fixture ID
- Up to 2 Accessories
- Fixed Trimless Plaster
- NON IC
- Remote Transformer
- 0.03" Trimless Screen Edge
- 100,0000+ L70 life

LED Source Details

- CREE XHP50 LED maximum rating = 1,500mA
- Fixture Operating Milliamp Range - 150 MA to 350 MA
- Operating 10% to 23% of maximum rated value of CREE LED
- Fixture delivered lumens = 250 to 575 lumens
- Calculated L70 CREE LED Life - 200,000+ hrs*
- Projected L70 CREE LED Life - 350,000+ hrs*
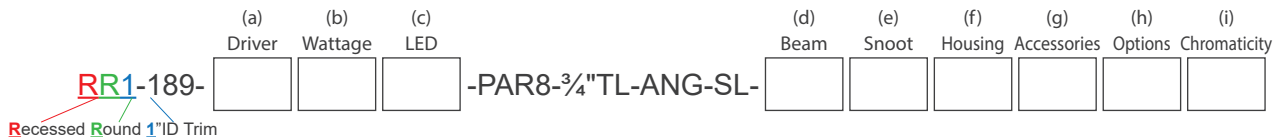
*CREE calculated from XHP502 LM80 and TM21 data

Patent No.: US 10,208,928 B1
Other Patents Pending

Last revised: 10/02/2023

CLARTÉ LIGHTING™

Made in the USA!

CREE LEDs

UL LISTED E486247

RR1-189-PAR8-¾"TL-ANG-SL
¾" Trimless Step Light

Project Name:		Type:	
Catalog Number:		Date:	

(a) Driver	(b) Wattage	(c) LED		(d) Beam	(e) Snoot	(f) Housing	(g) Accessories	(h) Options	(i) Chromaticity
RR1-189- [ ]	[ ]	[ ]	-PAR8-¾"TL-ANG-SL-	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Recessed **R**ound **1**"ID Trim

(a) Driver Options

D	=	MLV 0.1% Dimming (2 wire)
12V AC	=	.01% PWM AC dimming (2 wire) remote magnetic 12V AC transformer
24V DC	=	.01% PWM DC dimming (2 wire) 24V DC power supply
ED	=	Electronic Reverse Phase Dimming 1% (2 wire)
0-10V1	=	0-10V 1% Dimming (3 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
DALI2	=	0.1% Digital Addressable Lighting Interface V2
DALI2-4***	=	0.1% Digital Addressable Lighting Interface V2 (up to 4 fixtures)
ABS	=	Absolute Light .001% Dimming (use with RGBW)
ABSX	=	DMX Absolute Light .001% RGBW dimming

*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 with remote LED driver

(b) Wattage Options

2.5W	=	0-10V 1%, ED*
3.5W	=	MLV <1% Dimming
5W	=	ABS
5.5W	=	0-10V 1%, ED*
7W	=	MLV <1% Dimming
7.5W	=	0-10V 1%, ED*
8.5W	=	MLV <1% Dimming, DMX

*Only with no accessories.

(c) Lamp Type Options

X4LED = Cree XHP50 LED = 50+% brighter than XLED (available in spot, narrow flood, and flood)

(d) Beam Options

SP	=	Spot	NFL	=	Narrow Flood
FL	=	Flood			

(e) Snoot Color Options

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

(f) Fixture Housing Options

Non-IC Rated:
RMT = No housing, no frame, remote transformer spring clip loaded trim

(g) 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

(h) 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
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
RET*	=	Bi-pin whip to plug Clarté LED trim module into existing MLV transformed recessed halogen MR16 fixtures.
80+	=	CRI over 80
90+	=	CRI over 90
EXT	=	Exterior zinc primer with zinc infused paint

*Eliminate the need to install new 12V AC step down transformer, Clarté LED trim installs like changing a lamp.

(i) 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 *available soon*

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

*1050 mA or less

**700 mA or less
**Must utilize DMX fixture option
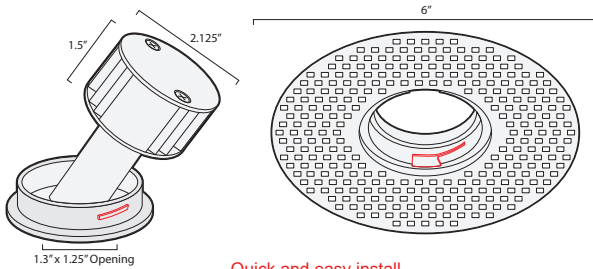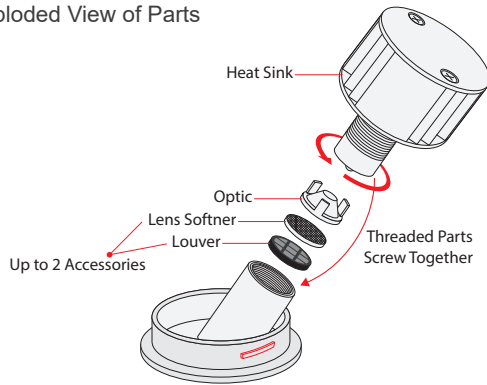
RR1-189-PAR8-¾"TL-ANG-SL

¾" Trimless Step Light

Project Name:		Type:	
Catalog Number:		Date:	

2-Part Design

1.5" 2.125"

6"

1.3" x 1.25" Opening

Quick and easy install.
Line up slots and twist.

Exploded View of Parts

Heat Sink

Optic
Lens Softner
Louver
Up to 2 Accessories

Threaded Parts
Screw Together

Quick Install Diagram

Paint

Mud

Screen
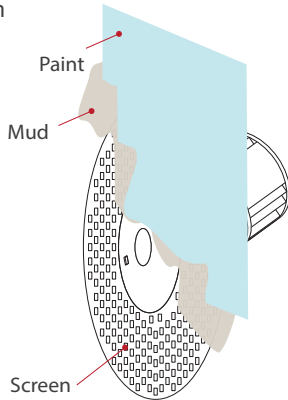
Should be installed 12" above the step and 1.5" off the front lip of previous step.
Should be installed at first and last step and every 3 to 5 steps.

1.5"

12"
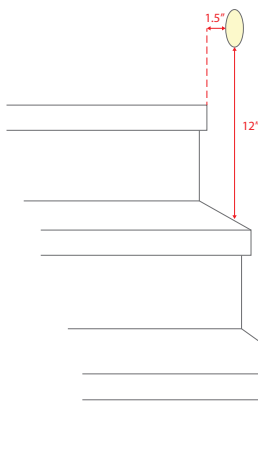
Electrical

- Optional - 12V AC remote class 2
- Optional - 24V DC remote class 2
- 100V, 120V, 230V, or 277V

Heat Sync

- 100% extruded aluminum construction

LED

- 1,500 maximum milliamp rated CREE XHP50 LED
- Operates between 450 to 700 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 – 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

Accessories

- Up to 2 accessories

Trimless

- 0.03" Screen Edge
- 2-Part design for easy access to LED or driver

Certification

- UL Damp Listed – IP 52 – Open trim

Warranty

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

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c(UL)us LISTED E486247

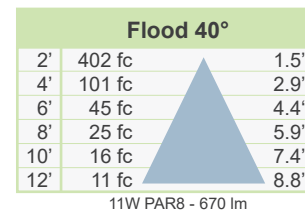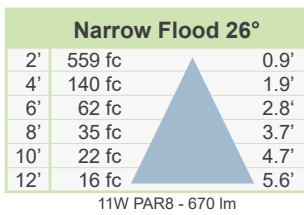| Project Name:		Type:	
Catalog Number:		Date:	

Wattage & Lumen Output

300 Milliamps - 500 Lumens		700 Milliamps		525 Milliamps - 900 Lumens		700 Milliamps - 1150 Lumens	
5W	ON/OFF	10W	Red - Up to 150 Lumens	11W	ON/OFF	15W	ON/OFF
	0-10V 1% Dimming		Green - Up to 150 Lumens		0-10V 1% Dimming		0-10V 1% Dimming
	ED		Blue - Up to 150 Lumens		ED		ED
7W	MLV <1% Dimming		White - Up to 300 Lumens	14W	MLV <1% Dimming	14W	MLV <1% Dimming
							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

Narrow Flood 26°

2'	559 fc	0.9'
4'	140 fc	1.9'
6'	62 fc	2.8'
8'	35 fc	3.7'
10'	22 fc	4.7'
12'	16 fc	5.6'

11W PAR8 - 670 lm

Flood 40°

2'	402 fc	1.5'
4'	101 fc	2.9'
6'	45 fc	4.4'
8'	25 fc	5.9'
10'	16 fc	7.4'
12'	11 fc	8.8'

11W PAR8 - 670 lm

Zonal Flux and Percentages

Zone	%Luminaire
0-20	63
0-30	83.3
0-40	89.8
0-60	95.8
0-80	99.2
0-90	100
10-90	77.9
20-40	26.7
20-50	30.6
40-70	8
60-80	3.4
70-80	1.4
80-90	0.8

Zonal Flux and Percentages

Zone	%Luminaire
0-20	47.3
0-30	74.3
0-40	88.5
0-60	97.5
0-80	99.5
0-90	100
10-90	87.1
20-40	41.2
20-50	48.7
40-70	10.1
60-80	2
70-80	0.9
80-90	0.5

Axial Candela Display

Maximum Candela = 2237   Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Axial Candela Display

Maximum Candela = 1615   Located At Horizontal Angle =-1, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela
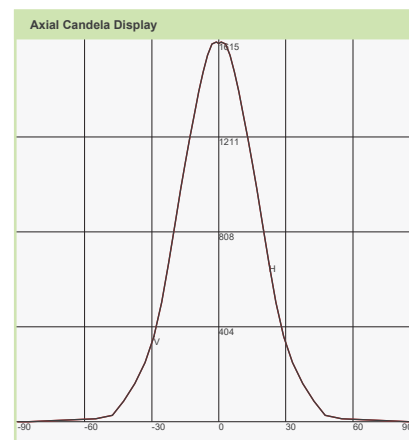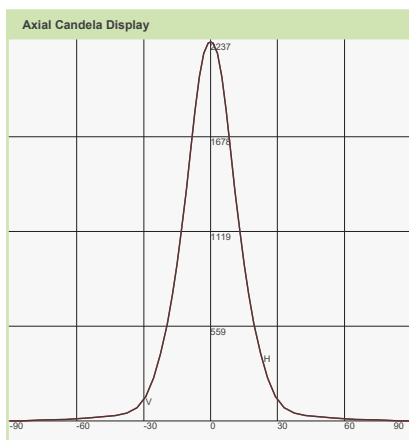
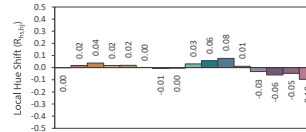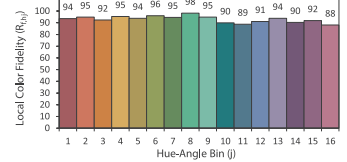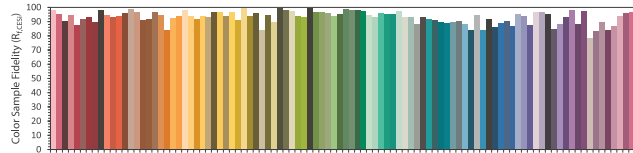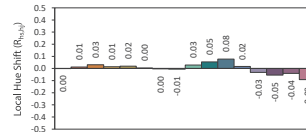| Project Name:		Type:	
Catalog Number:		Date:	

Clarté Lighting 3000K 80+ CRI Color Metrics

Rf 84 | Rg 102 | CCT 3055 K | Duv -0.0048

CIE 13.3-1995 (CRI): Ra 86, R9 29

Local Hue-Angle Bin Local Color Fidelity: 84 83 75 81 88 86 82 90 90 85 81 83 88 84 82 83
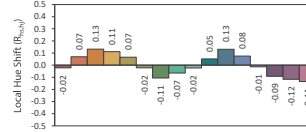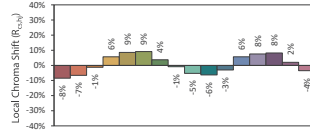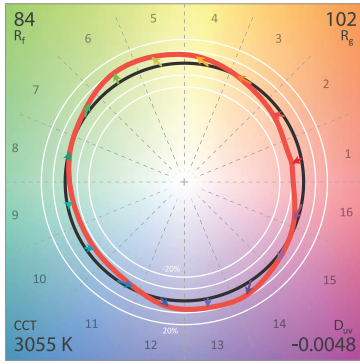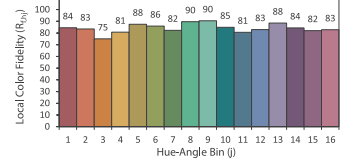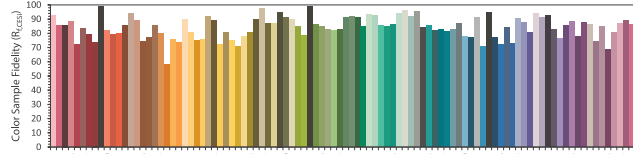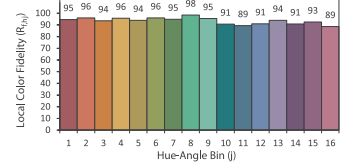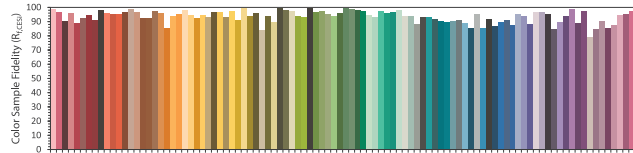
Clarté Lighting 3000K 90+ CRI Color Metrics

Rf 93 | Rg 101 | CCT 3129 K | Duv -0.0016

CIE 13.3-1995 (CRI): Ra 95, R9 74

Local Hue-Angle Bin Local Color Fidelity: 94 95 92 96 94 96 95 98 95 90 89 91 94 90 92 88
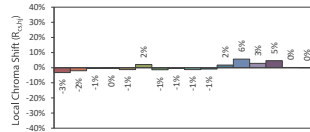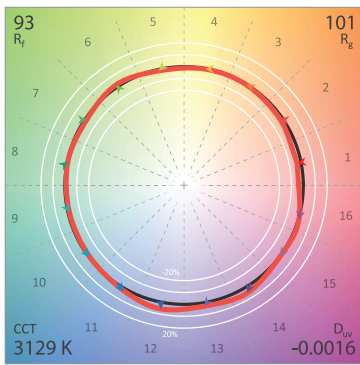
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics

Rf 94 | Rg 101 | CCT 3058 K | Duv -0.0014

CIE 13.3-1995 (CRI): Ra 96, R9 79
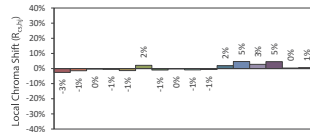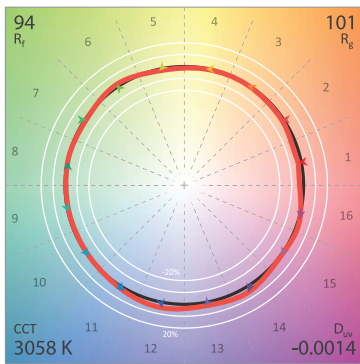
Local Hue-Angle Bin Local Color Fidelity: 95 96 94 96 94 96 95 98 95 91 89 91 94 91 93 89

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

Rf 93 | Rg 98 | CCT 2717 K | Duv 0.0008

CIE 13.3-1995 (CRI): Ra 95, R9 64

Local Hue-Angle Bin Local Color Fidelity: 92 95 95 96 97 95 97 94 93 93 92 91 89 92 88

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