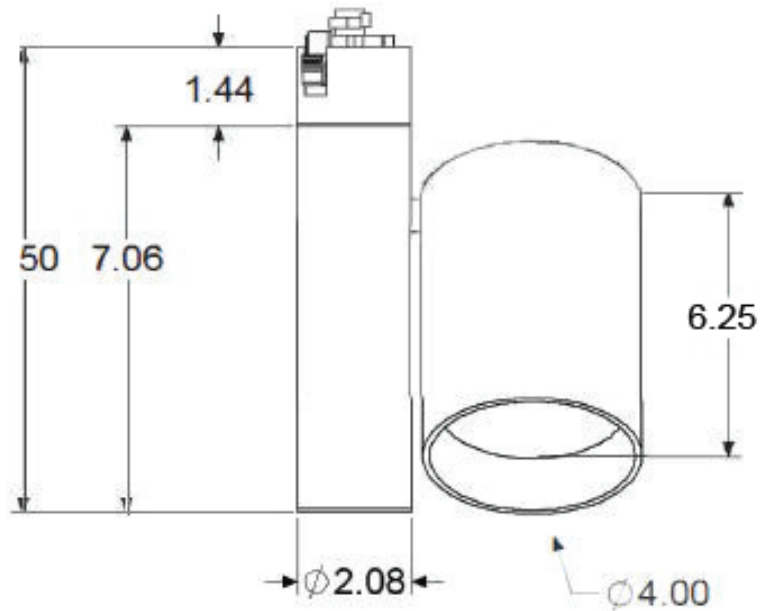


Project Name:		Type:	
Catalog Number:		Date:	



Key Features

- 4" OD
- Up to 4 accessories
- Remote transformer optoin
- Over 10,000+ fixture custom color finish options
- 100,000+ hr L70 life
- Wall or ceiling mount

LED Source Details

CREE XML2 LED maximum rating 3,000 mA

- Fixture operating milliamps = 700 mA – 1600 mA
- Operating 23% - 53% of rated value
- Fixture delivered lumens = up to 3,911 lumens

Last revised: 09/28/2026

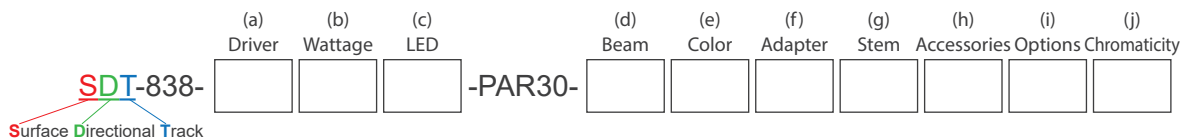
Clarté Lighting

SDT-838-PAR30

Surface Directional Track

Ordering

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 1% Dimming (2 wire)
0-10V	= 1% 0-10V Analog Dimming
DALIV2	= 1% DALIV2 Digital Dimming
RDM DMX	= 8 or 16 Bit, 4 Channel (2 wire with CAT5)

*MLV driver for use with forward phase, SCR, or Triac dimmers ONLY.

(b) Wattage Options

27W (450mA, 1300 Lumens)	= ON/OFF
35W (700mA, 2000 Lumens)	= MLV <1% Dimming
44W (1000mA, 2800 Lumens)	= ON/OFF
48W (3300mA, 3300 Lumens)	= MLV <1% Dimming, ON/OFF, 0-10V 1%, Lutron, DMX

(c) LED Type Options

XLED	= Cree XPL2 LED @ All Wattages
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(d) Beam Options

NSP	= Narrow Spot	NFL	= Narrow Flood
SP	= Spot	FL	= Flood

(e) Fixture Color Options

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

(f) Track Adapter Options

2C 120V	= 2 circuit 120V	2C 230	= 2 circuit 230V
2C 277	= 2 circuit 277V		

(g) Stem Options

S6*	= Stem Size 6"	S18	= Stem Size 18"
S12*	= Stem Size 12"	S24	= Stem Size 24"
CS	= Custom Stem (up to 96")		

*Track only 6" or 12"

(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 Hiar Louver	
H	= Halogen - 150K warmer. 2700k to 2550K	
DH	= Dimmed Halogen - 300K warmer. 2700k to 2400K	

(i) Options

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)
FCP	= Flat Canopy Plate
CP	= Canopy Plate
CPS	= Canopy Plate with Stem
DMXC	= DMX C-Clamp and CAT5
C*	= C-Clamp
C/LEADS	= C-Clamp w Leads/No Coil Grounded Plug
PL*	= Coil Grounded Plug
PL/HWD	= Coil Grounded Cord/No Plug
TBL	= Threaded Butterfly Lock
DMX*	= .39% to 100% milliamp constant voltage LED driver, dip switch addressable, 3 channel for 27K & 30K, 4 channel for RGBW, CAT5 in & out*

*DMX is required in RGBA 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)
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)
	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
	Photo Red*** = 650 - 670 NM wavelength
	RGBW3K*** = Red, Green, Blue, White
	RGBW4K*** = Red, Green, Blue, White

*1050 mA or less

**700 mA

***Must utilize DMX @ 600 mA

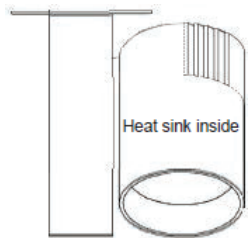
Clarté Lighting SDT-838-PAR30

Surface Directional Track

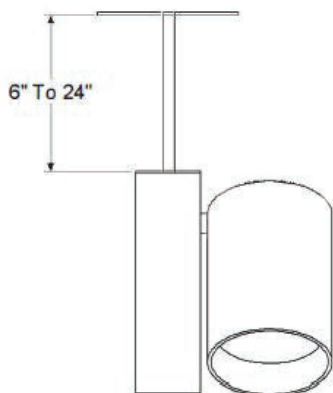
Specifications

Project Name:		Type:	
Catalog Number:		Date:	

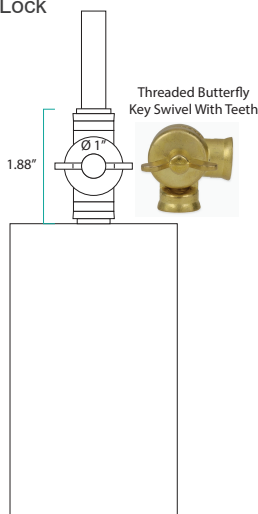
Flat Canopy Plate



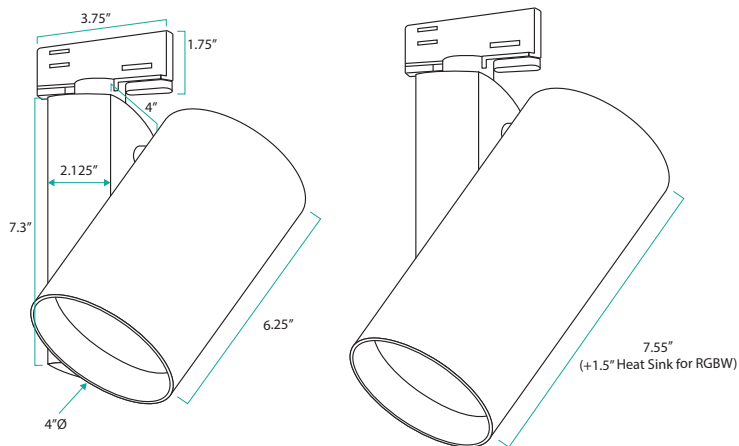
Canopy Plate with Stem Option



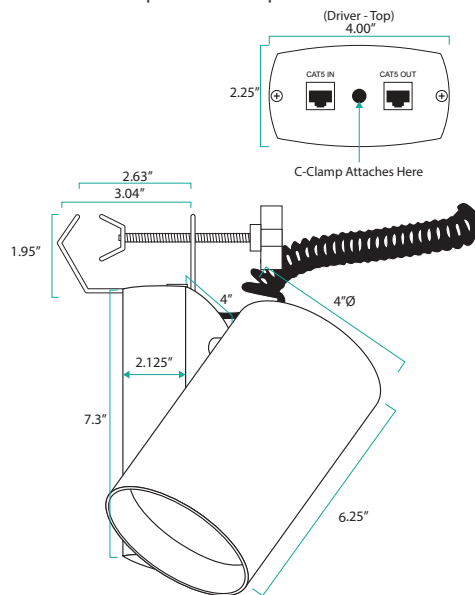
Threaded Butterfly Lock



DMX Track Driver Option



DMX C-Clamp w CAT5 Option and 120V Grounded Plug



Housing

- 100% aluminum construction

Electrical

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

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
- AC – 2 wire 12V AC

Optics

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

Installation

Track Adapter

- 1C - H type single circuit
- 2C 120 - 2 circuit 120V
- 2C 277 - 2 circuit 277V

Certification

- UL Damp Listed – IP 52

Warranty

- 7 Year – D and White LED fixtures

Clarté Lighting

SDT-838-PAR30

Surface Directional Track

Photometrics

Project Name:		Type:	
Catalog Number:		Date:	

Wattage & Lumen Output

700 Milliamps - 1800 Lumens
22W

1000 Milliamps - 2500 Lumens
33W

1200 Milliamps - 3100 Lumens
42W

1400 Milliamps - 3400 Lumens
46W

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

	Line Voltage 600 mA RGBW3K	ABS Light 700 mA RGBW3K	700 mA White 3K
Red	1296	1440	
Green	2511	2790	
Blue	372	414	
White	2106	2340	
Total	6285	6984	2533

*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'	11,097 fc	0.4'
4'	2,774 fc	0.9'
6'	1,233 fc	1.3'
8'	694 fc	1.7'
10'	444 fc	2.1'
12'	308 fc	2.6'

46W PAR30 - 3,372 lm

Spot 19°

2'	4,301 fc	0.7'
4'	1,075 fc	1.4'
6'	478 fc	2.1'
8'	269 fc	2.8'
10'	172 fc	3.5'
12'	119 fc	4.2'

46W PAR30 - 3,226 lm

Narrow Flood 23°

2'	3,200 fc	0.8'
4'	800 fc	1.7'
6'	356 fc	2.5'
8'	200 fc	3.3'
10'	128 fc	4.1'
12'	89 fc	5.0'

46W PAR30 - 3,126 lm

Flood 32°

2'	1,613 fc	1.1'
4'	403 fc	2.3'
6'	179 fc	3.4'
8'	101 fc	4.5'
10'	65 fc	5.7'
12'	45 fc	6.8'

46W PAR30 - XXXX lm

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	44389	
5	27240	1963
10	9044	
15	2798	872
20	854	
25	440	214
30	285	
35	211	135
40	172	
45	133	105
50	102	
55	57	56
60	45	
65	29	25
70	3	
75	1	1
80	1	
85	0	0
90	0	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	17204	
5	14400	1175
10	8520	
15	4164	1184
20	1951	
25	921	451
30	476	
35	287	188
40	205	
45	163	126
50	125	
55	68	68
60	49	
65	36	32
70	8	
75	2	2
80	1	
85	0	0
90	0	

Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	12801	
5	11202	950
10	7615	
15	4219	1171
20	2068	
25	1034	502
30	575	
35	356	231
40	249	
45	194	149
50	144	
55	85	81
60	59	
65	42	39
70	12	
75	2	3
80	1	
85	0	0
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	3049	90.4
0-40	3784	94.4
0-60	3345	99.2
0-90	3372	100.0
40-90	188	5.6
60-90	27	0.8
90-180	0	0.0
0-180	3372	100.0

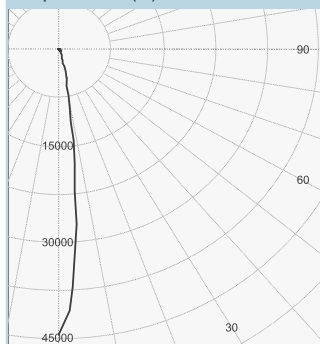
Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	2810	87.1
0-40	2997	92.9
0-60	3191	98.9
0-90	3226	100.0
40-90	228	7.1
60-90	35	1.1
90-180	0	0.0
0-180	3226	100.0

Zonal Flux and Percentages

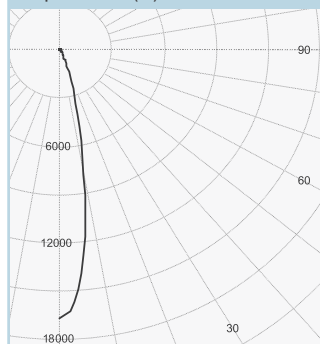
Zone	Flux (lm)	%Luminaire
0-30	2623	83.9
0-40	2854	91.3
0-60	3084	98.6
0-90	3126	100.0
40-90	273	8.7
60-90	43	1.4
90-180	0	0.0
0-180	3126	100.0

All planes - Solid (cd)



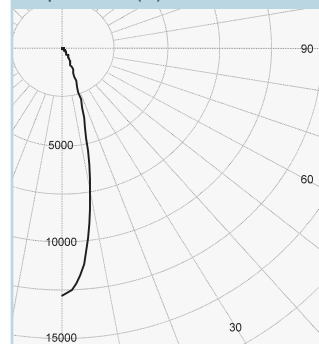
(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

All planes - Solid (cd)



(Rotational Symmetry)

CLARTÉ
LIGHTING



CREE
LEDs

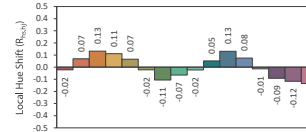
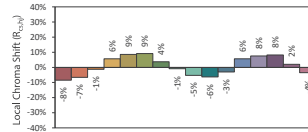
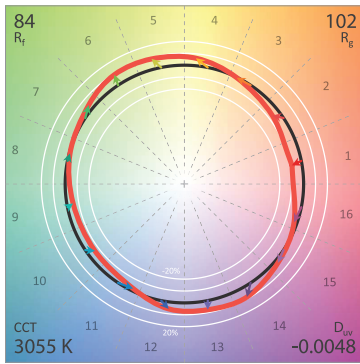
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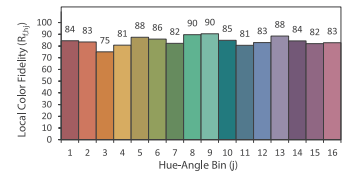
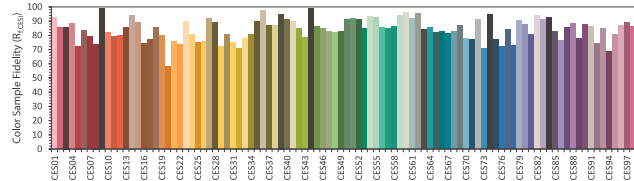
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Project Name:		Type:	
Catalog Number:		Date:	

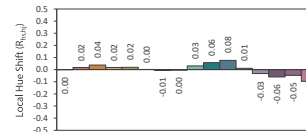
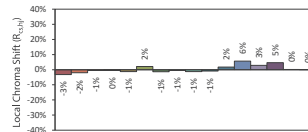
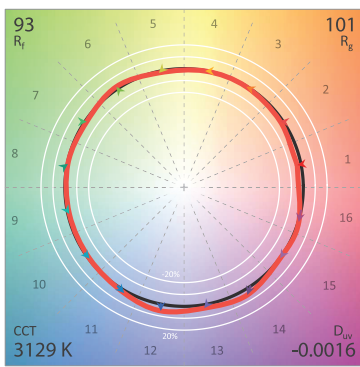
Clarté Lighting 3000K 80+ CRI Color Metrics



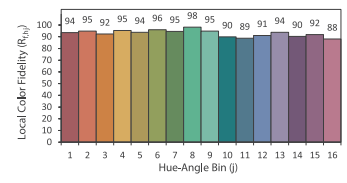
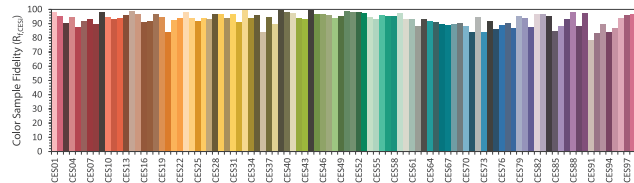
CIE 13.3-1995
 (CRI)
 R_a 86
 R_g 29



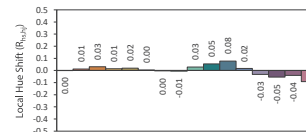
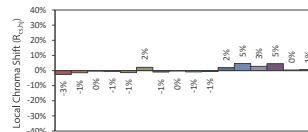
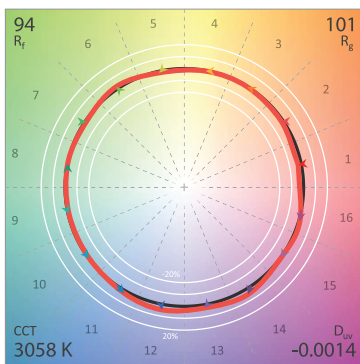
Clarté Lighting 3000K 90+ CRI Color Metrics



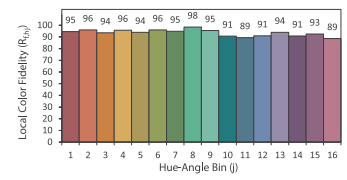
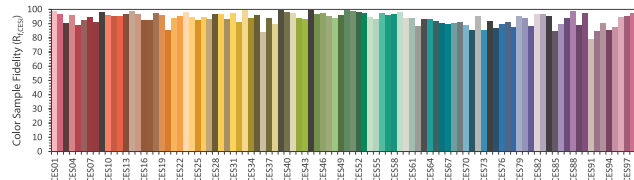
CIE 13.3-1995
 (CRI)
 R_a 95
 R_g 74



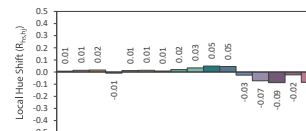
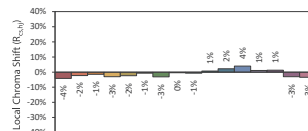
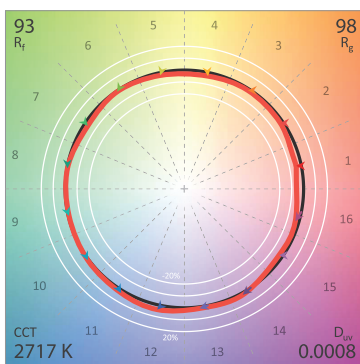
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics



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

