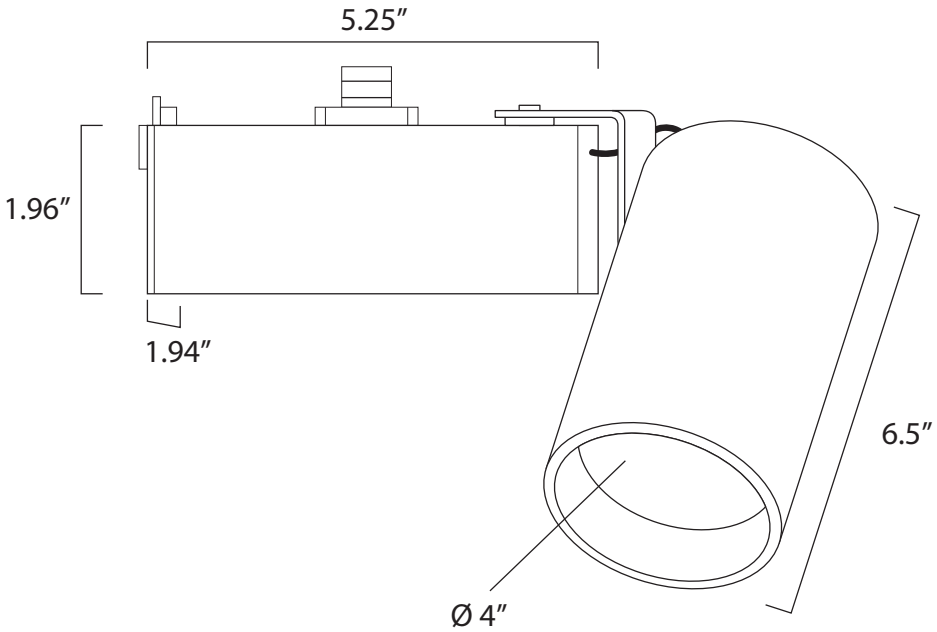
Clarté Lighting

SDT-841-PAR30

Low Profile Track

Features

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
- 100,0000+ 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

Patent Pending

Last revised: 02/10/2025

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Ordering

Project Name:		Type:	
Catalog Number:		Date:	

	(a) Driver	(b) Wattage	(c) LED		(d) Beam	(e) Accessories	(f) Color	(g) Options	(h) Stem	(i) Chromaticity
SDT-841-				-PAR30-						

Surface Directional Track

(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)
0-10V1	=	0-10V 1% Dimming (3 wire)
RDM DMX	=	8 Bit or 16 Bit, 4 Channel (2 wire with CAT5)

(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

(d) Beam Options

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

(e) 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 - Hexcel louver elimniates 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

(f) Fixture Color Options

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

(g) Track Adapter Options

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

(h) Options

BTS	=	Black Tapered Snoot
WTS	=	White Tapered Snoot
WBTS	=	White Exterior / Black Interior
WWSN	=	Wall Wash Snoot
80+	=	CRI over 80
90+	=	CRI over 90
120V	=	120VAC 60Hz (Standard)
230V	=	230VAC 50Hz (Used in conjuction with 230V track)
277V	=	277VAC 60Hz (Used in conjuction with 277V track)
FCP	=	Flat Canopy Plate
CP	=	Canopy Plate
C*	=	C-Clamp
PL*	=	Coil Grounded Plug
LD	=	Local Dimming Fixture
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

(i) 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"

(j) 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)
60K	=	6500 Kelvin (12 noon sunlight)

*1050 mA or less

Colored/Themed LED

UV275**	=	275 NM UV virus sterilizer
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

**500 mA
***700 mA
****Must utilize DMX @ 700 mA

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Specifications

Project Name:		Type:	
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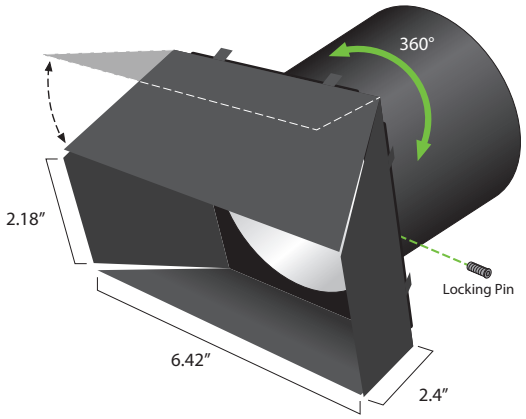
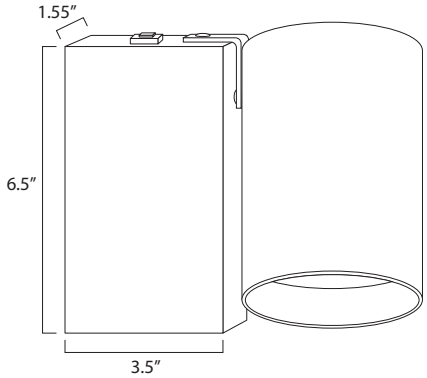
Hinged Barn Doors



Static White DMX



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

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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

1600 Milliamps - 3900 Lumens
55W

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'

55W PAR30 - 3,372 lm

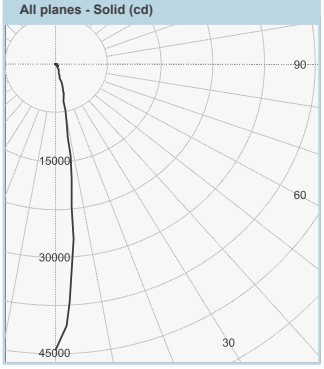
Intensity Summary (cd)

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	

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

All planes - Solid (cd)



(Rotational Symmetry)

Narrow Flood 22°

2'	x fc	x.x'
4'	x fc	x.x'
6'	x fc	x.x'
8'	x fc	x.x'
10'	x fc	x.x'
12'	x fc	x.x'

55W PAR30 - 3,841 lm

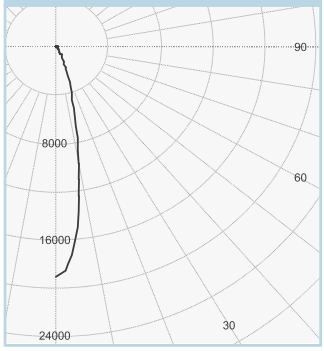
Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	19074	
5	16233	1332
10	9848	
15	5190	1461
20	2626	
25	1289	620
30	632	
35	329	220
40	211	
45	146	114
50	98	
55	57	55
60	42	
65	27	26
70	14	
75	9	10
80	6	
85	2	3
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	3413	88.8
0-40	3633	94.6
0-60	3802	99.0
0-90	3840	100.0
40-90	208	5.4
60-90	39	1.0
90-180	0	0.0
0-180	3841	100.0

All planes - Solid (cd)



(Rotational Symmetry)

Flood

2'	fc	'
4'	fc	'
6'	fc	'
8'	fc	'
10'	fc	'
12'	fc	'

55W PAR30 - 2,919 lm

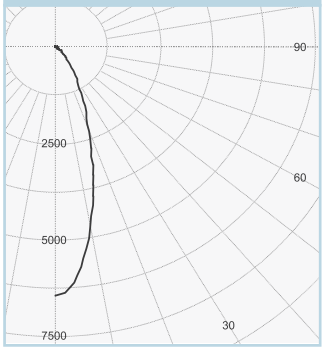
Intensity Summary (cd)

Gamma	All Planes	Flux (lm)
0	6451	
5	5949	529
10	4754	
15	3424	944
20	2326	
25	1552	720
30	1033	
35	639	405
40	368	
45	227	181
50	145	
55	88	83
60	58	
65	39	39
70	21	
75	14	15
80	9	
85	4	4
90	0	

Zonal Flux and Percentages

Zone	Flux (lm)	%Luminaire
0-30	2193	75.1
0-40	2598	89.0
0-60	2862	98.0
0-90	2919	100.0
40-90	321	11.0
60-90	58	2.0
90-180	0	0.0
0-180	2919	100.0

All planes - Solid (cd)



(Rotational Symmetry)

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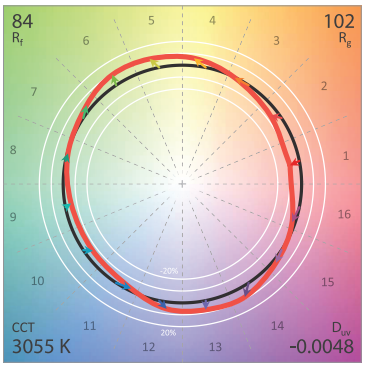
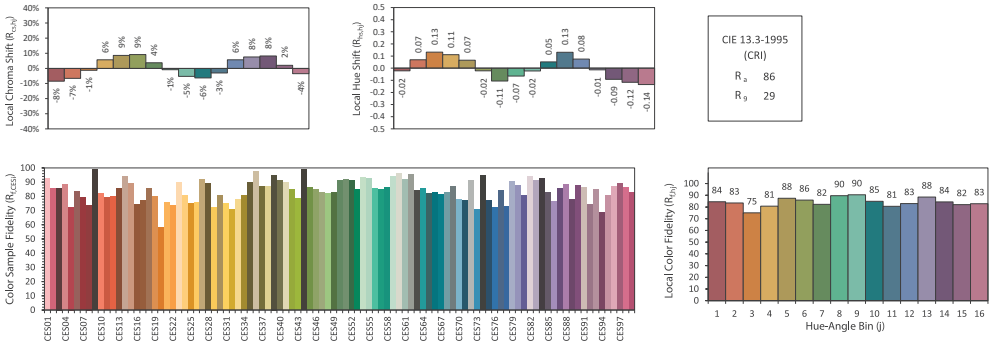
TM-30 Color Metrics

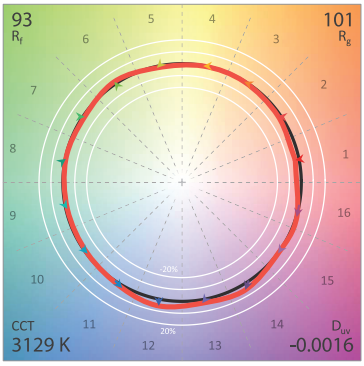
Project Name:		Type:	
Catalog Number:		Date:	

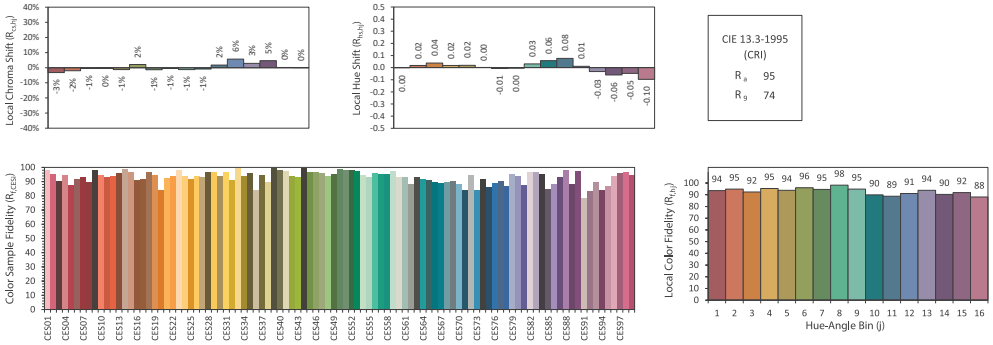
Clarté Lighting 3000K 80+ CRI Color Metrics



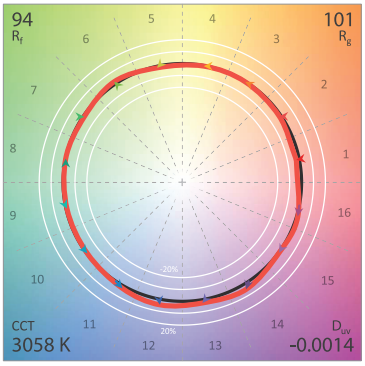


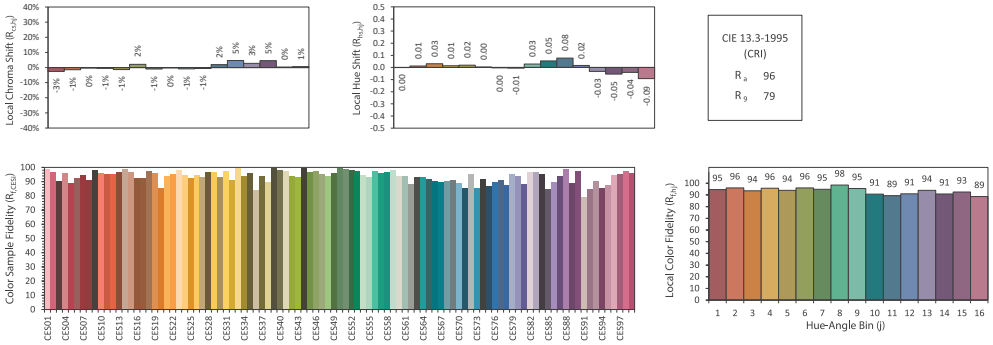
Clarté Lighting 3000K 90+ CRI Color Metrics



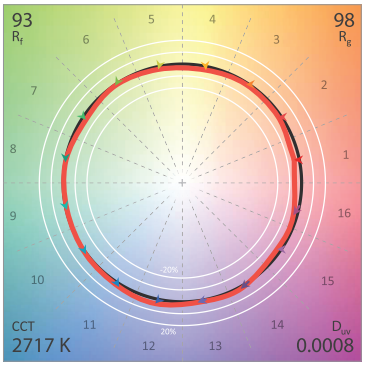


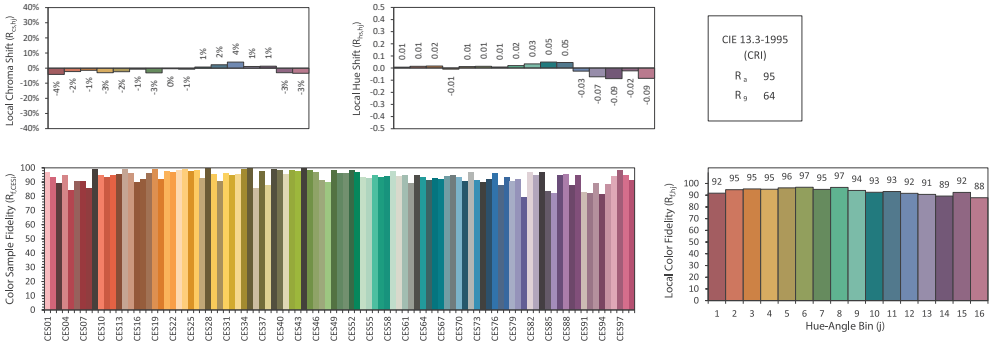
Clarté Lighting 3000K 90+ CRI Halogen Lens (H) Color Metrics





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





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