



100V 115/120V 230/240V



GENERAL INFORMATION

The Selador® Desire D40XTI brings the amazing control of the seven-color x7 Color System™ to your permanent application. With its IP66 rating, this fixture is ready for installation inside or outside - wherever you need it. The Selador x7 Color System produces the widest range of spectrally-balanced saturated and tinted color choices available. The D40XTI offers a rugged die-cast enclosure, noiseless fan-free operation, and multiple lens options that can be changed on site.

D40XTI LED ARRAYS

The D40XTI luminaire is available with any one of the following color arrays to best suit the intended application.

- D40XTI Vivid™: Best all-around use as a color-changing wash fixture
- D40XTI Lustr+™: Optimized with six colors plus high-intensity white LEDs to create an ideal frontlight wash fixture; full-range color, with an emphasis on lighter colors and white
- D40XTI Studio HD: Combines warm-white and cool-white LEDs with five carefully-chosen x7 LED colors, to fill in white LED spectral apps with variable color-temperature mixing for the richest variable white light possible in an LED fixture

Also available in the following static-white arrays:

- D40XTI Studio Daylight – Contains forty 5600K LEDs for high-intensity, non-variable cool-white output
- D40XTI Studio Tungsten – Contains forty 3000K LEDs for high-intensity, non-variable warm-white output

ORDERING INFORMATION

Selador Desire D40XTI

MODEL	DESCRIPTION
SELD40XTI-V	D40 Vivid wash fixture
SELD40XTI-L	D40 Lustr+ frontlight wash fixture
SELD40XTI-H	D40 Studio HD wash fixture
SELD40XTI-D	D40 Studio Daylight wash fixture
SELD40XTI-T	D40 Studio Tungsten wash fixture

Note: D40XTI luminaires ship with a hanging yoke, attached leads and a data-termination board. C-clamp, lenses or other accessories are not included.



SPECIFICATIONS

GENERAL

- Easy setup via any RDM device, such as ETC Gateways and Gadget
- Color-mixing arrays have 40 LEDs for variable-color washes
- Static-color arrays have 40 LEDs for white-light washes
- ETL Listed to UL1598
- IP66-rated for exterior, wet-location use
- Data-termination board for easy installation (included)

PHYSICAL

- Rugged die-cast, all-metal housing
- Accessory ring for installation of secondary lenses
- Available in black (standard), white, silver (optional) or custom colors (contact factory)
- Hanging yoke standard
- Cable diameter: Power 0.36" / Data 0.34"
- Effective Projected Area (EPA): 0.74

ELECTRICAL

- 100VAC to 240VAC 50/60Hz universal power input
- Waterproof, 72" outdoor-rated power lead
- Up to 10 fixtures (15A max) may be fed on the same circuit
- Requires power from a non-dim source
- Inrush
 - 120V: 15A (First half-cycle)
 - 240V: 40A (First half-cycle)

LED*

- 50,000-hour-LED life (50,000 hours to 70% intensity)
- 40 Luxeon® Rebel LED emitters
- Studio Daylight and Studio Tungsten use Rebel ES white-light emitters for higher output

*See additional LED notes on page three

COLOR

- Exclusive x7 *Color System™* seven-color LED array
- Broad-spectrum color interacts seamlessly with conventional sources
- Beautifully illuminates skin tones and objects for natural appearance and high color-rendering
- Exclusive red-shift option emulates tungsten dimming performance (not available on static-white fixtures)
- Studio HD array uses warm- and cool-white light emitters with additional deep-color emitters to allow variable color temperature from 2700K-6500K
- Studio Tungsten and Studio Daylight provide good color rendering at very high brightness

OPTICAL

- Primary field angle of 17° and beam angle of 8°
- Secondary lenses available for multiple beam-spread options
- Lenses must be ordered separately
- Refer to accessories chart for available lenses

CONTROL

- DMX512 In and Thru via termination board (included)
- See DMX control table for operation modes
- 15-bit virtual dimming engine provides smooth, high-quality theatrical fades and minimizes color-shift during dimming
- RDM functionality for address and setting changes

SPECIFICATIONS

THERMAL

- Ambient operating temperature of -4° to 104°F (-20° to 40°C)
- Active electronic thermal management for droop-free operation
- Noiseless, fan-free convection-cooling for acoustically sensitive installations
- Fixture is designed for continuous operation up to 104°F (40°C) ambient temperature and requires free flow of air around fixture housing

ADDITIONAL ORDERING INFORMATION

Fixture Accessories

MODEL	DESCRIPTION
D40XTIWM	Wall-Mount Kit (black)
D40XTIWM-1	Wall-Mount Kit (white)
D40XTISPM	Single Pole-Mount Kit (black)
D40XTISPM-1	Single Pole-Mount Kit (white)
D40XTIDPM	Double Pole-Mount Kit (black)
D40XTIDPM-1	Double Pole-Mount Kit (white)
D40XTIL	Egg Crate (black)
D40XTIL-1	Egg Crate (white)
D40XTIHH	Half Shield (black)
D40XTIHH-1	Half Shield (white)
400CC	C-Clamp (does not ship with fixture)
400SC	Safety Cable (32")

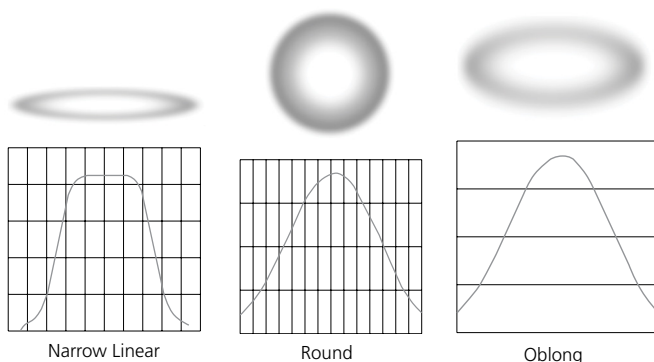
ADDITIONAL ORDERING INFORMATION

Secondary Lens Options

MODEL	DESCRIPTION: The following lenses are cut for D40XTI fixtures and create round, linear or oblong field patterns as described below. These lenses are not for use in Selador Classic™ fixtures.	
Narrow Linear Field	Note: This is the same material as Selador Classic lenses	
D40XTI-LVN	Very Narrow lens	Linear lenses may be combined to create desired field size
D40XTI-LN	Narrow lens	
D40XTI-LM	Medium lens	
D40XTI-LW	Wide lens	
D40XTI-LXW	Extra Wide lens	
Round Field	Any one of the following round lenses may be installed permanently in the fixture at the factory as a special order	
D40XTI-RVN	Very Narrow lens (round field)	
D40XTI-RN	Narrow lens (round field)	
D40XTI-RM	Medium lens (round field)	
D40XTI-RW	Wide lens (round field)	
D40XTI-RXW	Extra Wide lens (round field)	
Oblong Field		
D40XTI-ON	Narrow lens (oblong field)	
D40XTI-OM	Medium lens (oblong field)	
D40XTI-OW	Wide lens (oblong field)	

http://www.etconnect.com/docs/docs_downloads/miscdocs/Desire vs PAR EA revB.pdf

Typical Lens-Field Profiles



Power Consumption at Full Intensity

MODEL	VOLTAGE (V)	CURRENT (A)	WATTS
D40XTI	120 / 240	1 / 0.5	110

NOTES ABOUT LED LUMINAIRES

All LED sources experience some reduction of light output and some color shift over time. LED output will vary with thermal conditions. Thermal conditions can be affected by ambient temperatures and orientation. See the D40 Ambient Temperature and Power Budgeting Guide for more details. Based on the LED manufacturer's B50 L70 specification, a Selador luminaire will achieve ~70% of its initial output after 50,000 hours of typical usage. In individual situations, LEDs will be used for different durations and at different levels. This can eventually lead to minor alterations in color performance, necessitating slight adjustments to presets, cues or programs.

CRI AND CQS RATINGS

Desire fixtures were evaluated for CRI and CQS performance using measured output spectrum and optimized mix solutions for a best spectral match to black body sources at 3200K and 5600K.

Fixture	CRI	CQS	Color Fidelity	Duv
D40 Vivid at 3200K	87	89	89	0.000
D40 Vivid at 5600K	90	92	92	0.000
D40 Lustr+ at 3200K	86	88	88	0.000
D40 Lustr+ at 5600K	93	92	90	0.000
D40 Studio HD at 3200K	89	90	91	0.000
D40 Studio HD at 5600K	92	94	94	0.000
D40 Studio Daylight at 5600K	71	70	69	0.001
D40 Studio Tungsten at 3000K	86	86	86	0.001

All D40XTI Studio luminaire versions provide excellent color rendering to the eye, particularly at higher color-temperature settings, such as 5600K. In most cases, the Duv is 0.000. A Duv rating of 0.000 indicates that the color mix used is exactly on the black body line, with no green or magenta tint.

Notes to videographers:

- All Desire fixtures use Luxeon Rebel ES emitters specified by the strictest binning standards. However, on-camera LED response varies with different cameras and settings. Daylight LEDs can appear slightly greener than other 5600K sources on camera.
- Fixtures with non-variable, single-color daylight arrays, such as Studio Daylight, may use standard color-correction filters (Rosco 3314, Rosco 3316 or similar) to achieve the desired on-camera result.
- Camera tests using your specific setup are recommended to determine the best configuration.

LENS INFORMATION

Desire diffusion angle measurements

NOMINAL									
	No Lens	Very Narrow	Narrow	Medium	Wide	Extra Wide	Narrow Oval	Medium Oval	Wide Oval
D40XTI		25°	35°	45°	75°	N/A	20° x 40°	30° x 70°	35° x 80°
LUSTR+	22	26	32	54	77	97	29 x 43	33 x 63	33 x 97
VIVID	22	26	32	54	77	97	29 x 43	33 x 63	33 x 97
STUDIO HD	22	26	32	54	77	97	29 x 43	33 x 63	33 x 97
STUDIO D	31	33	38	60	81	97	36 x 48	41 x 68	35 x 97
STUDIO T	31	33	38	60	81	97	36 x 48	41 x 68	35 x 97

Values in black refer to old lens descriptions

CONTROL OPTIONS

User settings on D40XTI fixtures allow multiple operational modes and settings for either console operation via DMX protocol or stand-alone operation. The expanded LCD display provides easy navigation to all possible settings and choices. Some of the setting options are:

- Multiple DMX options, ranging from a simple RGB profile – which effectively controls all seven LED colors via three channels – to nine-channel ‘direct’ color and intensity control
- Multiple dimming curve options
- Preset colors and sequences for standalone (no console required) operation
- White-point selection: white light and color behavior based on a specific color-temperature white light, such as 3200K or 5600K
- Loss of data behavior options: instant off, hold last look for two minutes, etc.
- Output modes: Three output options that offer the user a choice between maximum output and maximum consistency

See the user manual for a complete explanation of all of the control settings and options for the D40XTI

Quick Setups

To assist in managing the numerous control and fixture behavior choices, five combinations of operational settings are available to quickly get started. These settings are specifically created for different applications and are easily accessible at the fixture display. Each setting can then be modified as required to take advantage of all of the possible control features.

Setting Title	Profile	Description	Typical Features*
General	Direct	Factory default: For general-purpose use, including interior architectural applications	<ul style="list-style-type: none"> • Standard dimming curve • Regulated output for color consistency
Stage	HSI Plus 7 Enabled	Theatrical lighting: Duplicates the color and dimming behavior of tungsten stage-lighting fixtures	<ul style="list-style-type: none"> • Incandescent dimming curve • Regulated output for color consistency • 3250K white-point setting
XT Arch	HSI	Exterior architectural lighting: Provides a high degree of color consistency in high ambient-temperature environments	<ul style="list-style-type: none"> • Standard dimming curve • Protected output • 3200K white-point setting
High Impact	RGB	Event lighting: Enables quickest response, simple RGB control and strobe channel for maximum effect usage	<ul style="list-style-type: none"> • Quick dimming curve • Boost mode for maximum intensity • 5600K white-point setting
Studio	Studio	Video/film lighting: Enables three-parameter control of white light (intensity, white point and tint) via DMX from console or from fixture display – no console required	<ul style="list-style-type: none"> • Linear dimming curve • Regulated output mode for color consistency

*See user manual for complete list of features for each Quick Setup.

CONTROL OPTIONS

DMX Input Channel Profiles

DMX Profile	DMX Channels	Channel Assignments	Notes
Direct	9	1 – Red 2 – Orange (white if Lustr+) 3 – Amber 4 – Green 5 – Cyan 6 – Blue 7 – Indigo 8 – Intensity 9 – Strobe	Direct control of each individual color with a separate master-intensity channel. Color calibration of LEDs is not active in this mode. The nine-channel profile will produce the highest-quality color crossfades
HSI	5	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe	High-resolution hue (two channels), saturation, and intensity control. HSI mode will produce color crossfades around the color space
HSIC	6	1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Color Point (CCT)	High-resolution hue, saturation and intensity control as above, with the addition of a color point channel to adjust the color temperature of the fixture in both white light and color. Color crossfade performance is the same as EHSI
RGB	5 (Ch. 4 not used)	1 – Red 2 – Green 3 – Blue 4 – n/a 5 – Strobe	Effectively addresses all seven colors via three channels of control. RGB profile will produce medium-quality color crossfades
Studio	3	1 – Intensity 2 – Color Point (CCT) 3 – Tint	Controls fixture as a white-light unit. If no DMX, (console input, for example) is present, the fixture can be adjusted for these three parameters on the user interface at the back of the unit
Additional profile options			
Plus 7		Seven additional color-control channels are available in RGB, HSI, HSIC, and Studio profile settings. For example, HSI with ‘Plus 7’ enabled becomes a 14-channel profile:	
		1 – Hue (coarse) 2 – Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – n/a 7 – Plus 7 Control on/off 8 – Red 9 – Orange (white if Lustr+) 10 – Amber 11 – Green 12 – Cyan 13 – Blue 14 – Indigo	<p>The desired color and intensity are achieved by using the HSI or RGB channels.</p> <p>Placing channel seven at a value over 51% gives the fixture a 14-channel profile.</p> <p>Channels 8-14 represent the native colors of the fixture and allow the operator to adjust individual color channels to fine tune the color output.</p>
Strobe		Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe channel value approaches 100%.	

CONTROL OPTIONS

Studio Daylight and Studio Tungsten only

Quick Setups

Setting Title	Profile	Description	Typical Features*
Studio	Studio	Simple mode for linear intensity control	<ul style="list-style-type: none"> • Linear dimming curve • Regulated output for intensity stability
Single Channel	Direct	For general-purpose architectural use	<ul style="list-style-type: none"> • Standard dimming curve • Regulated output for consistency
Stage	Direct	Matches conventional luminaire performance	<ul style="list-style-type: none"> • Incandescent dimming curve • Regulated output

CONTROL OPTIONS

DMX Input Channel Profiles

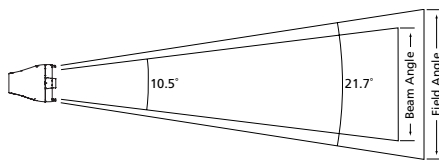
DMX Profile	DMX Channels	Channel Assignments	Notes
Studio	3	1 – Intensity 2 – Strobe	Control of parameters is also enabled from the luminaire's user interface. No console required.
Direct	3	1 – Intensity 2 – Strobe	

PHOTOMETRICS

D40XTI Vivid

Mode	Degree	Candela	Field Lumens	Beam Lumens	Lumens Per Watt
Boost - Full	10.5°	57,265	2,252	845	23.6
Regulated - Full	10.5°	47,449	1,866	700	22.7
Regulated - 3200K	10.5°	32,749	1,288	483	24.1
Regulated - 5600K	10.5°	33,876	1,332	500	22.2

Metric conversions: For meters, multiply feet by 0.3048
For lux, multiply foot-candles by 10.76

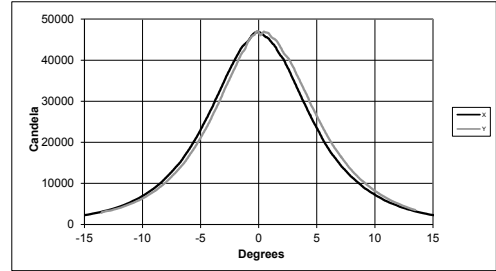


Throw Distance (d)	10.0ft	15.0ft	20.0ft	30.0ft	217.8ft
	3.0m	4.6m	6.1m	9.1m	66.4m
Field Diameter	3.8ft	5.7ft	7.7ft	11.5ft	-
	1.2m	1.8m	2.3m	3.5m	-
Illuminance (fc)	474	211	119	53	1
Illuminance (lux)	5,107	2,270	1,277	567	10.76

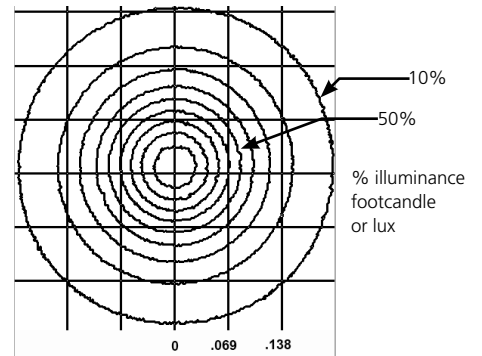
To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.308
For beam diameter at any distance, multiply by 0.145

Cosine Candela Plot



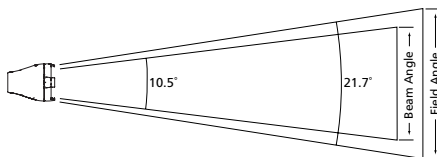
Iso-Illuminance Diagram (Flat Surface Distribution)



D40XTI Lustr+

Mode	Degree	Candela	Field Lumens	Beam Lumens	Lumens Per Watt
Boost - Full	10.5°	71,324	2,593	1,042	25.2
Regulated - Full	10.5°	64,071	2,329	936	25.0
Regulated 3200K	10.5°	46,299	1,683	676	29.4
Regulated 5600K	10.5°	40,173	1,460	587	26.8

Metric conversions: For meters, multiply feet by 0.3048
For lux multiply foot-candles by 10.76

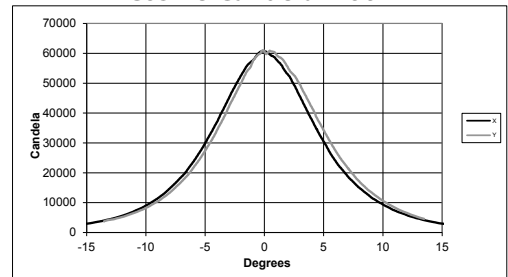


Throw Distance (d)	10.0ft	15.0ft	20.0ft	30.0ft	253.1ft
	3.0m	4.6m	6.1m	9.1m	77.2m
Field Diameter	3.8ft	5.7ft	7.7ft	11.5ft	-
	1.2m	1.8m	2.3m	3.5m	-
Illuminance (fc)	641	285	160	71	1
Illuminance (lux)	6,897	3,065	1,724	766	10.76

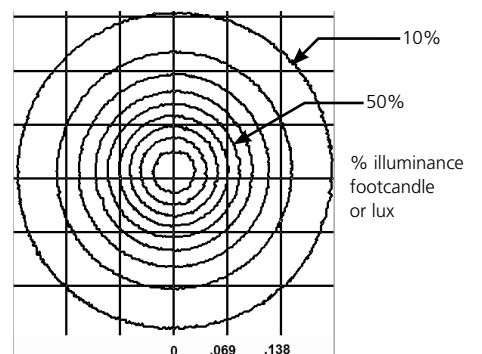
To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.301
For beam diameter at any distance, multiply by 0.145

Cosine Candela Plot



Iso-Illuminance Diagram (Flat Surface Distribution)

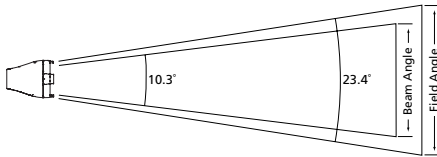


PHOTOMETRICS

D40XTI Studio HD

Mode	Degree	Candela	Field Lumens	Beam Lumens	Lumens Per Watt
Boost - Full	10.3°	79,390	3,194	1,296	33.2
Regulated - Full	10.3°	74,890	3,015	1,197	33.0
Regulated - 3200K	10.3°	72,160	2,928	1,176	36.1
Regulated - 5600K	10.3°	59,459	2,477	951	32.1

Metric conversions: For meters, multiply feet by 0.3048
For lux, multiply foot-candles by 10.76

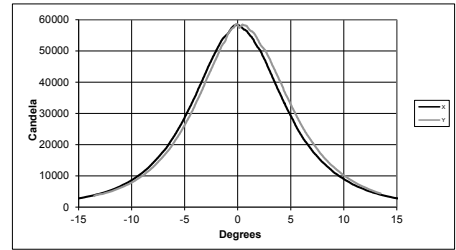


Throw Distance (d)	10.0ft	15.0ft	20.0ft	30.0ft	273.7ft
	3.0m	4.6m	6.1m	9.1m	83.4m
Field Diameter	4.1ft	6.2ft	8.3ft	12.4ft	-
	1.3m	1.9m	2.5m	3.8m	-
Illuminance (fc)	749	333	187	83	1
Illuminance (lux)	8,061	3,583	2,015	896	10.76

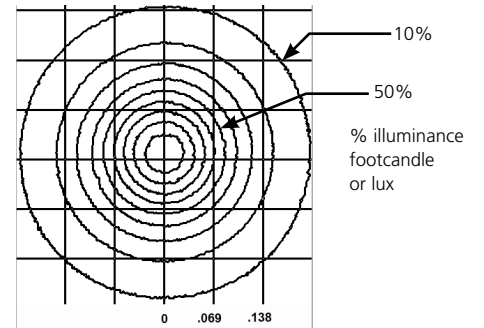
To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.313
For beam diameter at any distance, multiply by 0.143

Cosine Candela Plot



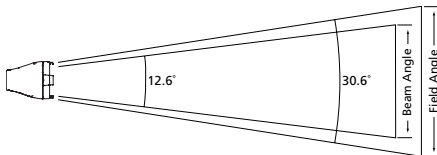
Iso-Illuminance Diagram (Flat Surface Distribution)



D40XTI Studio Daylight

Mode	Degree	Candela	Field Lumens	Beam Lumens	Lumens Per Watt
Boost - Full	12.6°	67,325	4,332	1,640	43.1
Regulated - Full	12.6°	61,743	3,973	1,504	43.0

Metric conversions: For meters, multiply feet by 0.3048
For lux, multiply foot-candles by 10.76

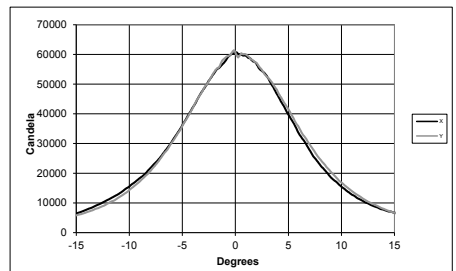


Throw Distance (d)	10.0ft	15.0ft	20.0ft	30.0ft	248.5ft
	3.0m	4.6m	6.1m	9.1m	75.7m
Field Diameter	5.5ft	8.2ft	10.9ft	16.4ft	-
	1.7m	2.5m	3.3m	5.0m	-
Illuminance (fc)	617	274	154	69	1
Illuminance (lux)	6,646	2,954	1,661	738	10.76

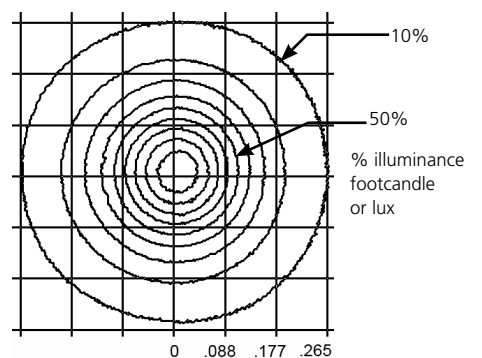
To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.390
For beam diameter at any distance, multiply by 0.198

Cosine Candela Plot



Iso-Illuminance Diagram (Flat Surface Distribution)

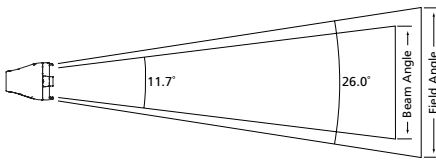


PHOTOMETRICS

D40XTI Studio Tungsten

Mode	Degree	Candela	Field Lumens	Beam Lumens	Lumens Per Watt
Regulated - Full	11.7°	97,389	5,023	2,018	52.8

Metric conversions: For meters, multiply feet by 0.3048
 For lux, multiply foot-candles by 10.76

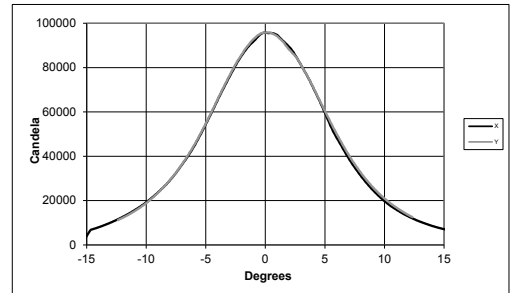


Throw Distance (d)	10.0ft	15.0ft	20.0ft	30.0ft	312.1ft
	3.0m	4.6m	6.1m	9.1m	95.1m
Field Diameter	4.6ft	6.9ft	9.2ft	13.9ft	-
	1.4m	2.1m	2.8m	4.2m	
Illuminance (fc)	974	433	243	108	1
Illuminance (lux)	10,483	4,659	2,621	1,165	10.76

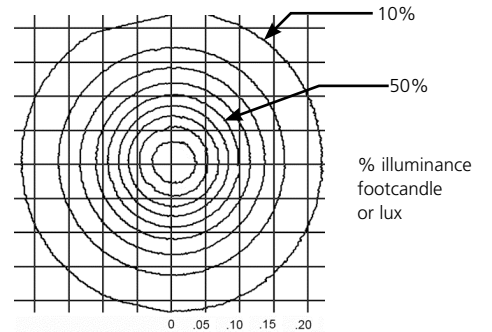
To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared

For field diameter at any distance, multiply distance by 0.414
 For beam diameter at any distance, multiply by 0.189

Cosine Candela Plot



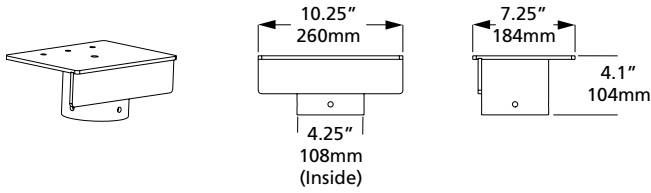
Iso-Illuminance Diagram (Flat Surface Distribution)



MOUNTING OPTIONS

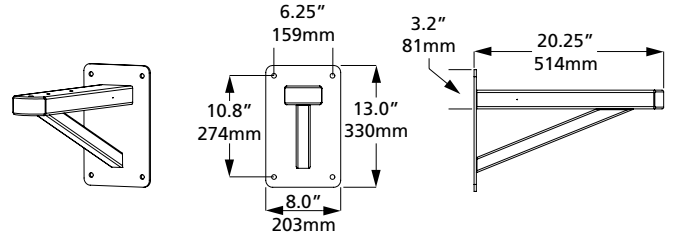
MODEL	DESCRIPTION
4XTSTM-X*	Single-pole-mount pole-top mounting adapter for 4" pole (provided by others). See installation sheet for details.

*0 - Black, 1 - White, 2 - Bronze.



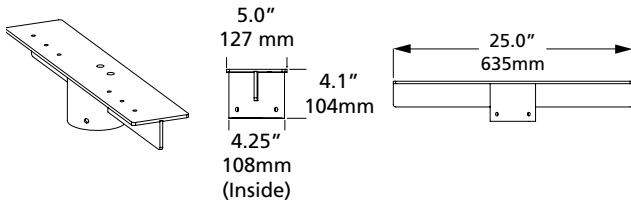
MODEL	DESCRIPTION
4XTWM-X*	Wall or square pole mount. See installation sheet for details.

*0 - Black, 1 - White, 2 - Bronze.



MODEL	DESCRIPTION
4XTTMM-X*	Twin fixture pole top mount adapter for standard 4" pole (provided by others). See installation sheet for details.

*0 - Black, 1 - White, 2 - Bronze.



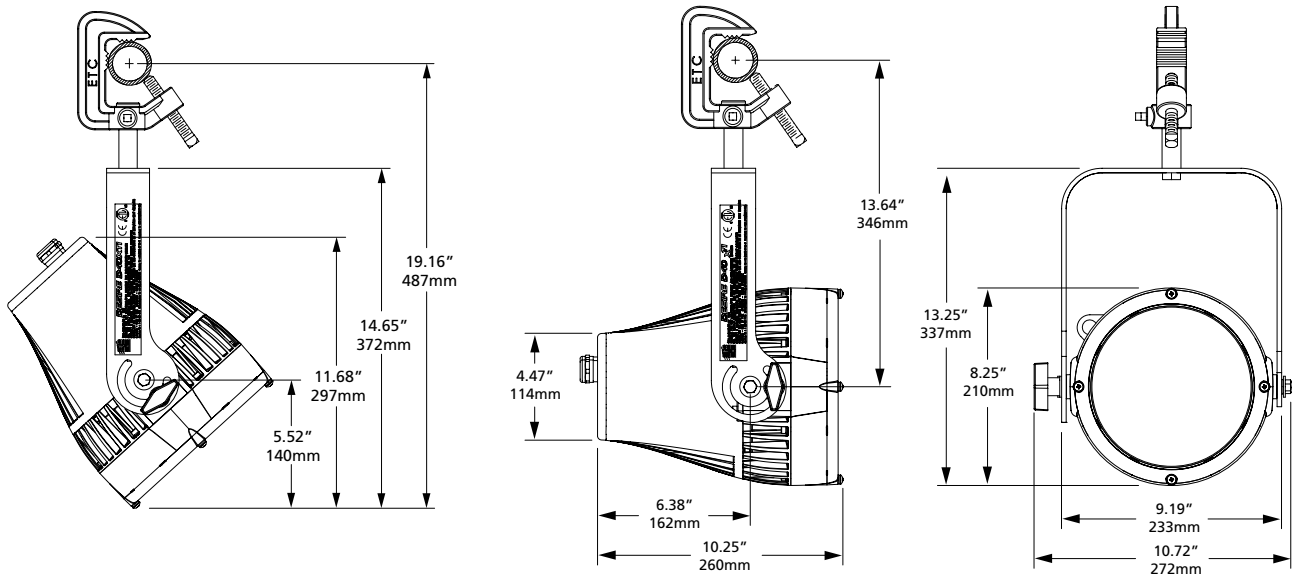
PHYSICAL

Selador D40XTI Weights and Dimensions

Total weight depends on how the individual fixture is configured.

WEIGHT*		SHIPPING WEIGHT	
lbs	kgs	lbs	kgs
15	6.8	18	8.2

* Does not include mounting hardware



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