












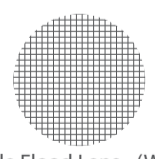
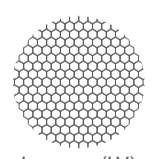



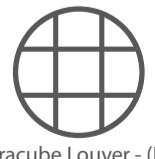


# System of Illumination = Intentionally Different

Clarté Lighting created a family of modular architectural LED fixtures that offer matching mechanical, optical, and aesthetics to meet a designer's criteria for each specific application detail.

The Clarté Lighting System utilizes interchangeable parts with each fixture optically designed to deliver a high center beam candle power, 45 degrees vertical cut off with a primary and secondary field of light created from proprietary TIR optics. Each fixture can add 3 to 4 interchangeable beam shaping accessories per fixture providing optimum design flexibility.

(a)  5 Optical Size Fixture Families	<b>1" OD</b> PAR8 Scale    1100 delivered lumens	<b>2" OD</b> PAR16 Scale    1300 delivered lumens	<b>2.5" OD</b> PAR20 Scale    2300 delivered lumens	<b>4" OD</b> PAR30 Scale    4000 delivered lumens	<b>4.5" OD</b> PAR38 Scale    5000 delivered lumens			
(b)  6 Fixture Families	 Recessed	 Recessed Slot Multiple	 Surface	 Pendant	 Track	 Retrofit		
(c)  15 Chromaticity Choices <small>(Select Any 1 of 15 Different LED Hues for 100% Of All Clarté Lighting Fixtures – 3 McAdam Ellipse)</small>	2200 Kelvin (candlelight)	2700 Kelvin 84 or 94 CRI LED (incandescent color)	3000 Kelvin 84 or 94 CRI LED (halogen color)	3500 Kelvin 84 or 94 CRI LED (neutral white)	4000 Kelvin 84 CRI LED (cool white)			
	5000 Kelvin 84 CRI LED (day white)	6500 Kelvin 84 CRI LED (12 Noon Sunlight)	UV365 Themed Effect (365 nm UVA light)	UV390 Architectural Accent (390 nm UVA light)				
	Blue (465 - 485 nm) <small>Back Stage Running Lights</small>	Green (520 - 535 nm)	Amber (585 - 595 nm) <small>Turtle Breeding Beaches Meets Federal Requirements</small>	Red (620 - 630 nm)	RGBW - 3K and 4K White (Red, Green, Blue, White)			
(d)  4 TM-30-18 Color Metric Options	<b>3K 80+ CRI</b> <ul style="list-style-type: none"> <li>Fidelity (<math>R_f</math>) = 84</li> <li>Gamut (<math>R_g</math>) = 102</li> <li>1st Bin Local Color Fidelity - RED (<math>R_{f,h1}</math>) = 84</li> <li>Black Body (<math>R_{cs,h1}</math>) = .0048%</li> <li>3,000 Kelvin</li> <li>CRI(<math>R_a</math>) = 86</li> </ul>		<b>3K 90+ CRI</b> <ul style="list-style-type: none"> <li>Fidelity (<math>R_f</math>) = 93</li> <li>Gamut (<math>R_g</math>) = 101</li> <li>1st Bin Local Color Fidelity - RED (<math>R_{f,h1}</math>) = 94</li> <li>Black Body (<math>R_{cs,h1}</math>) = .0016%</li> <li>3,000 Kelvin</li> <li>CRI(<math>R_a</math>) = 95</li> </ul>		<b>3K 90+ CRI H (Halogen)</b> <ul style="list-style-type: none"> <li>Fidelity (<math>R_f</math>) = 94</li> <li>Gamut (<math>R_g</math>) = 101</li> <li>1st Bin Local Color Fidelity - RED (<math>R_{f,h1}</math>) = 95</li> <li>Black Body (<math>R_{cs,h1}</math>) = .0014%</li> <li>2,900 Kelvin</li> <li>CRI(<math>R_a</math>) = 96</li> </ul>	<b>3K 90+ CRI DH (Dimmed Halogen)</b> <ul style="list-style-type: none"> <li>Fidelity (<math>R_f</math>) = 93</li> <li>Gamut (<math>R_g</math>) = 98</li> <li>1st Bin Local Color Fidelity - RED (<math>R_{f,h1}</math>) = 92</li> <li>Black Body (<math>R_{cs,h1}</math>) = .0008%</li> <li>2,600 Kelvin</li> <li>CRI(<math>R_a</math>) = 95</li> </ul>		
(e)  7 Dimming Options	D = 0.1% 2-wire forward phase MLV glow to ON fade to OFF (voltage reduction dumb dimming in existence since the 1970's)		DALI2 V8 = 0.1% bidirectional dimming	0-10V = 4-wire 1% dimming	ED = 2-wire reverse phase 2 wire dimming	Lutron = 2-wire 1% dimming	RDM DMX 16-bit dimming = .001 65,536 step glows to ON fade to OFF dimming	
	Absolute Light – DIN Rail remote class 2 dimming system to .001% – Recessed, surface or recessed slot multiples – PAR8, PAR16, or PAR20 scale optic – Approved & Operates with 12 dimming controls manufacturers <ul style="list-style-type: none"> <li>Warm dim from 3K down to 2K</li> <li>Tunable white 1700K to 7000K</li> <li>Sunrise or sunset big island of Hawaii</li> <li>16.7 million colors</li> </ul>							
(f)  6 AC Voltage Options	12V (Remote Power Supply)	100V (Japan)	120V (North America)	230V (Europe/Asia)	277V (North America)	347V (Canada)		
(g)  2 DC Voltage Options	24V DC ETC F Drive 24V DC Solar with no Inverter (Offered 100% fixture offering 2-wire forward phase glow to on fade to off)			48V Absolute Light Din Rail remote 48V power supply				
(h)  5 Different Beam Spreads	Narrow Narrow Spot (NNSP) 7.9 Degree with Louver 8.5 Degree	Narrow Spot (NSP) 12 Degree	Spot (SP) 17 Degree	Narrow Flood (NFL) 23 Degree	Flood (FL) 40 Degree			
(i)  8 Beam Shaping Optical Accessories <small>(Up to 4 Accessories Per Fixture)</small>	 Lens Softener - (LS) 20% Increase Beam Width		 Linear Spread Lens - (LSL) 20 x 60 Rectangular Beam Shaping		 Wide Flood Lens - (WFL) +50% increase beam width		 Louver - (LV) Honeycomb Louver	
	 Halogen - (H) 100K Warmer, 2700K to 2600K		 Dimmed Halogen - (DH) 400K Warmer, 2700K to 2300K		 Cross Hair Louver - (CHL) 1/2" Deep		 Paracube Louver - (PL) 5/8" Deep Cell Louver	
(j)  3 Mechanical Adaptations Available for Each Fixture	Retrofit		Remodel		New Construction			
(k)  6,500+ Color Finish Choices	<ul style="list-style-type: none"> <li>Select any color finish for 100% of Clarté Lighting fixtures.</li> </ul> (click to see all color options)							