ELP CL
COLOR LED ELLIPSOIDAL LIGHT FIXTURE

HIGHLIGHTS

- Impressive light output
  Class-leading output rating of 6,900 lumens (in High Output mode)

- Superior CRI rating
  CRI rating of 90 (in High Quality mode)

- Revolutionary focus and functionality
  Industry’s first gear-driven Fine Focus, Fast Focus for data-free focusing, and more

- Compatible with universal accessories
  Use industry standard lens tubes, gel frames, gobo holders and rotators

OVERVIEW

Martin ELP CL [Color] LED ellipsoid fixtures deliver the class-leading luminance, output and great color mixing from pastels to saturated colors. Ergonomic Danish engineering offers advances in lighting functionality that include the easy-to-use gear-based Fine Focus—an industry first; and on-board Fast Focus which allows focusing of the fixture without the need of DMX data. ELP also offers 16-bit dimming with 4 selectable curves and 26 color presets that match industry-standard color filters.

ELP fixtures can be configured with one of four Martin lens tubes in 19, 26, 36 and 50-degree beam angles and are compatible with third-party lens tubes along with a wide range of accessories, including gel frames and gobo for flexibility in lighting design and inventory management.

Superior output, optics and color mixing, combined with unparalleled ease-of-use and convenience, make Martin ELP the leading LED ellipsoidal fixture in its class.

ADVANCED MARTIN OPTICS

Martin ELP Ellipsoids feature optic assemblies designed in Denmark by the technology innovators behind MAC Encore, the leading LED moving light. The ELP is designed to maximize efficiency and deliver a flat field of illumination for smoother blending and mixing between fixtures.

MEET CUTTING-EDGE LED TECHNOLOGY

ELP CL offers an impressive 6,900 lumens and 85 CRI in High Output mode, and 5,900 lumens and 90 CRI in High Quality mode, with a color temperature of 6,000K [open white]. ELP Ellipsoids also offer flicker-free operation for consistent light output, on and off camera and 16-bit dimming with 4 selectable curves.

FOCUS ON FUNCTIONALITY

ELP takes a classic light fixture to new performance levels with a suite of innovative features. Our gear-based Fine Focus adjustment—an industry first—lets you lock focus exactly where you want it, instantly.

There’s no refocusing, no drifting and no slipping. Our innovative Fast Focus feature brings the fixture to full output for 60 seconds without data running to the fixture. Haloation Color correction removes atypical blue and brown halos when using Martin lens tubes.

ERGONOMIC DESIGN

Danish engineering is all about efficiency and ergonomics, and the subtle details of ELP are no exception: We’ve placed the center of gravity as close to the yoke as possible, for more comfortable operation. And, we’ve placed tilt knobs out of the way of framing shutters, to allow quick, easy position adjustments.

INVEST IN THE FUTURE, WITH A MINIMAL FINANCIAL INVESTMENT

It has never been easier to transition your inventory to LED ellipsoids. In addition to the four lens tube configurations available through Martin, the ELP line fits common 3rd party lens tubes and accessories—which means you can save money by using your existing gel frames, gobo holders and rotators and lens tubes.
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FEATURES

• Color mixing ellipsoidal fixture based on 91 LEDs (RGBLA)
• Flat even field with broad color color spectrum
• Lumen output of 6,900 lumens (in High Output mode)
• CRI rating of 90 (in High Quality mode)
• Flicker-free operation with adjustable Pulse Width Modulation
• 16-bit dimming with 4 selectable curves
• 26 color presets that match industry-standard color filters
• Gear-driven Fine Focus for one-hand operation
• On-board Fast Focus for focusing without the need of DMX data
• On-board stand-alone programming with up to 20 scenes
• Up to 9 fixtures can be linked via PowerCon Thru connector
• High resolution OLED display for easy on-board setting and configuration
• Four available Martin lens tubes in 19, 26, 36 and 50-degree beam angles
• Compatible with universal accessories—use existing lens tubes, gel frames, gobo holders and rotators

ORDERING INFORMATION

• Martin ELP CL (Body Only): P/N 9045107780
• Martin ELP CL (Body Only), White: P/N 9045115164
• Martin ELP Lens Tube: 19°: P/N 9045107782
• Martin ELP Lens Tube: 26°: P/N 9045107783
• Martin ELP Lens Tube: 36°: P/N 9045107784
• Martin ELP Lens Tube: 50°: P/N 9045107785
• Martin ELP Lens Tube 19° White: P/N 9045115166
• Martin ELP Lens Tube 26° White: P/N 9045115167
• Martin ELP Lens Tube 36° White: P/N 9045115168
• Martin ELP Lens Tube 50° White: P/N 9045115170

RELATED ITEMS

• Martin® RDM 5.5 Splitter: P/N 90758150
• Martin Companion Cable: P/N 91616091

ACCESSORIES

Cables (16 A, for connection to power in chains):
• Power input cable, H07RN-F, 2.5 mm², 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.): P/N 91611797
• Power input cable, H07RN-F, 2.5 mm², 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.): P/N 91611786
• Link Cable, H07RN-F Neutrik TRUE1-TRUE1 0.45 m (1.5 ft.): P/N 91611784
• Link Cable, H07RN-F Neutrik TRUE1-TRUE1 1.2 m (3.9 ft.): P/N 91611785
• Link Cable, H07RN-F Neutrik TRUE1-TRUE1 2.5 m (8.2 ft.): P/N 91611796

Power Connectors
• Neutrik PowerCON TRUE1 NAC3MX-W (male): P/N 91611788
• Neutrik PowerCON TRUE1 NAC3FX-W (female): P/N 91611789
TECHNICAL SPECIFICATIONS

DYNAMIC EFFECTS
- Color mixing: RGBLA
- Color temperature range: 2000-10000K
- Color selection: 26 color presets
- Electronic dimming: 0 - 100%
- Strobe and pulse effect: Variable speed and action, random strobe
- Electronic ‘shutter’ effect: Instant open and blackout
- Electronic dimming: Four dimming curve options

CONTROL & PROGRAMMING
- DMX channels: 1/10/17
- 16-bit control: Intensity, CTC, RGBLA
- Control options: DMX, stand-alone
- PWM: 600-1200Hz
- Setting and addressing: Control panel with OLED display or via RDM
- Stand-alone programming: Control panel with OLED display
- DMX compliance: USITT DMX512-A
- RDM compliance: ANSI/ESTA E1.20
- Transceiver: Opto-isolated RS-485

OPTICS
- Light source: 2 x RGBAL Luxeon Rebel LEDs (19 Red, 24 Green, 12 Blue, 24 Lime, 12 Amber)
- Color temperature: 2000-10000K
- Lens Tube Options: 19°, 22°, 36° and 50°
- Minimum LED lifetime: 30 000 hours (to >70% luminous output)*

PHOTOMETRIC DATA (HIGH QUALITY MODE @ 6000K)
- Light Engine luminous output: 20000 lumen
- Fixture luminous output: 5900 lumen
- CRI (Color Rendering Index): >90
- CQS (Color Quality Scale): >97
- TM-30 Rf (IES TM-30-15 Fidelity Index): >84
- TM-30 Rag (IES TM-30-15 Gamut Index): >106
- TLCI (Television Lighting Consistency Index): >87

PHOTOMETRIC DATA (HIGH OUTPUT MODE @ 5500K)
- Light Engine luminous output: 20000 lumen
- Fixture luminous output: 6900 lumen
- CRI (Color Rendering Index): >85
- CQS (Color Quality Scale): >90
- TM-30 Rf (IES TM-30-15 Fidelity Index): >94
- TM-30 Rag (IES TM-30-15 Gamut Index): >111
- TLCI (Television Lighting Consistency Index): >85

CONSTRUCTION
- Color(s): Black or white variant
- Housing: Die-cast aluminum
- Protection rating: IP20

GOBOS & COLOR FRAME
- Gobo size: A size, 100 mm OD, 75 mm ID*
- Gobo size: B size, 86 mm OD, 64.5 mm ID*
- Color frame size: 159 x 159mm (6.25 in. x 6.25 in.)

* Gobo holder not included.

INSTALLATION
- Mounting: Adjustable bracket
- Location: Indoor use only
- Orientation: Any
- Minimum distance to combustible materials: 0.2 m (0.7 ft.)
- Minimum distance to illuminated surfaces: 0.5 m (1.6 ft.)

CONNECTIONS
- AC power in/thru: Neutrik PowerCON TRUE1
- DMX and RDM data in/thru: 5-pin locking XLR

ELECTRICAL
- AC power input: 100-240 V nominal, 50/60 Hz
- Power supply unit: Auto-ranging electronic switch-mode
- Idle power: <5 W
- Half-cycle RMS inrush current at 230 V, 50 Hz: 15.0 A
- Fixture link via PowerCON at 100-120 V: Up to 4 fixtures
- Fixture link via PowerCON at 200-240 V: Up to 9 fixtures
- Power consumption figures are typical, not maximum. Allow for +/-10% variation.

TYPICAL POWER AND CURRENT
- 110 V, 60 Hz: 2.4 A, 259 W, PF 0.99
- 208 V, 60 Hz: 1.3 A 250 W, PF 0.96
- 230 V, 50 Hz: 1.3 A, 249 W, PF 0.95
- 240 V, 50 Hz: 1.1 A, 249 W, PF 0.95
- Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/-10%.

THERMAL
- Cooling: Forced air (temperature-regulated, low noise)
- Maximum ambient temperature (Ta max.): 40° C (104° F)
- Minimum ambient temperature (Ta min.): 0° C (32° F)
- Total heat dissipation (calculated, +/-10%, at full intensity, full white): 1000 BTU/hr.

APPROVALS
- EU safety: EN 60598-2-17 (EN 60598-1), EN 62471, EN 62493
- EU EMC: EN 55015, EN 55032
- US safety: UL 1573
- US EMC: FCC Part 15 Class B
- Canadian safety: CSA C22.2 No. 166
- Canadian EMC: ICES-003 Class B, ICES-005 Class B
- Australia/NZ: RCM

INCLUDED ITEMS
- Power input cable (0.75mm², 18 AWG); bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.)
- Mounting bracket
- User manual
**ELP CL**

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**SPEC SHEET**

### PROJECTION DATA (HIGH OUTPUT MODE)

#### 19° LENS TUBE

Center beam intensity: 78988 candela

<table>
<thead>
<tr>
<th>Distance meter (ft.)</th>
<th>4 (13.1)</th>
<th>6 (19.7)</th>
<th>8 (26.2)</th>
<th>10 (32.8)</th>
<th>12 (39.4)</th>
<th>14 (44.6)</th>
<th>16 (52)</th>
<th>18 (59)</th>
<th>20 (66)</th>
</tr>
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<tbody>
<tr>
<td>field-angle diameter meter (ft.)</td>
<td>1.5 (4.91)</td>
<td>2.2 (7.4)</td>
<td>3.0 (9.8)</td>
<td>3.7 (12.3)</td>
<td>4.5 (14.7)</td>
<td>5.2 (17.2)</td>
<td>6.0 (19.6)</td>
<td>6.7 (22.1)</td>
<td>7.5 (24.6)</td>
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<tr>
<td>Center illuminance (lux)</td>
<td>4937</td>
<td>2194</td>
<td>1234</td>
<td>790</td>
<td>549</td>
<td>403</td>
<td>309</td>
<td>244</td>
<td>197</td>
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<tr>
<td>Center illuminance (candelas)</td>
<td>459</td>
<td>204</td>
<td>115</td>
<td>73</td>
<td>51</td>
<td>37</td>
<td>29</td>
<td>23</td>
<td>18</td>
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</table>

For field diameter at any distance, multiply by 0.37

#### 26° LENS TUBE

Center beam intensity: 57526 candela

<table>
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<tr>
<th>Distance meter (ft.)</th>
<th>4 (13)</th>
<th>6 (20)</th>
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<tbody>
<tr>
<td>field-angle diameter meter (ft.)</td>
<td>1.8 (5.8)</td>
<td>2.7 (8.6)</td>
<td>3.6 (11.7)</td>
<td>4.5 (14.6)</td>
<td>5.3 (17.5)</td>
<td>6.2 (21.2)</td>
<td>7.1 (23.4)</td>
<td>8.0 (26.3)</td>
<td>8.9 (29.2)</td>
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<tr>
<td>Center illuminance (lux)</td>
<td>3595</td>
<td>1598</td>
<td>899</td>
<td>575</td>
<td>399</td>
<td>294</td>
<td>225</td>
<td>178</td>
<td>144</td>
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<tr>
<td>Center illuminance (candelas)</td>
<td>334</td>
<td>148</td>
<td>84</td>
<td>53</td>
<td>37</td>
<td>27</td>
<td>21</td>
<td>16</td>
<td>13</td>
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For field diameter at any distance, multiply by 0.45

#### 36° LENS TUBE

Center beam intensity: 30439 candela

<table>
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<th>Distance meter (ft.)</th>
<th>4 (13)</th>
<th>6 (20)</th>
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<tr>
<td>field-angle diameter meter (ft.)</td>
<td>2.6 (8.4)</td>
<td>3.9 (12.6)</td>
<td>5.1 (16.9)</td>
<td>6.4 (21.1)</td>
<td>7.7 (25.3)</td>
<td>9.0 (29.5)</td>
<td>10.3 (33.7)</td>
<td>11.6 (37.9)</td>
<td>12.8 (42.1)</td>
</tr>
<tr>
<td>Center illuminance (lux)</td>
<td>1902</td>
<td>846</td>
<td>476</td>
<td>304</td>
<td>211</td>
<td>155</td>
<td>119</td>
<td>94</td>
<td>76</td>
</tr>
<tr>
<td>Center illuminance (candelas)</td>
<td>177</td>
<td>79</td>
<td>44</td>
<td>30</td>
<td>20</td>
<td>14</td>
<td>11</td>
<td>9</td>
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For field diameter at any distance, multiply by 0.64

#### 50° LENS TUBE

Center beam intensity: 14466 candela

<table>
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<th>Distance meter (ft.)</th>
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<tr>
<td>field-angle diameter meter (ft.)</td>
<td>3.9 (12.8)</td>
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<td>7.8 (25.5)</td>
<td>9.7 (31.9)</td>
<td>11.7 (38.3)</td>
<td>13.6 (44.7)</td>
<td>15.6 (51.1)</td>
<td>17.5 (57.5)</td>
<td>19.5 (67.5)</td>
</tr>
<tr>
<td>Center illuminance (lux)</td>
<td>917</td>
<td>407</td>
<td>229</td>
<td>147</td>
<td>102</td>
<td>75</td>
<td>57</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Center illuminance (candelas)</td>
<td>85</td>
<td>38</td>
<td>21</td>
<td>14</td>
<td>9</td>
<td>7</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

For field diameter at any distance, multiply by 0.97

For center illuminance at any distance, divide center beam intensity with distance in square [meter for lux, feet for candelas]
### Projection Data (High Quality Mode)

#### 19° Lens Tube

**Center beam intensity:** 66689 candela

<table>
<thead>
<tr>
<th>Distance (ft.)</th>
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<th>6 (20)</th>
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<tr>
<td>Field-angle diameter (ft.)</td>
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<td>6.0 (19.6)</td>
<td>6.7 (22.1)</td>
<td>7.5 (23.9)</td>
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<tr>
<td>Center illuminance (lux)</td>
<td>4148</td>
<td>1852</td>
<td>1042</td>
<td>647</td>
<td>463</td>
<td>340</td>
<td>261</td>
<td>206</td>
<td>167</td>
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<tr>
<td>Center illuminance (candela)</td>
<td>387</td>
<td>172</td>
<td>97</td>
<td>62</td>
<td>43</td>
<td>32</td>
<td>24</td>
<td>19</td>
<td>15</td>
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For field diameter at any distance, multiply distance by 0.37

#### 26° Lens Tube

**Center beam intensity:** 48559 candela

<table>
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<td>7.1 (23.4)</td>
<td>8.0 (26.4)</td>
<td>8.9 (29.2)</td>
</tr>
<tr>
<td>Center illuminance (lux)</td>
<td>3035</td>
<td>1349</td>
<td>759</td>
<td>486</td>
<td>337</td>
<td>248</td>
<td>190</td>
<td>150</td>
<td>121</td>
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<tr>
<td>Center illuminance (candela)</td>
<td>282</td>
<td>125</td>
<td>70</td>
<td>45</td>
<td>31</td>
<td>23</td>
<td>18</td>
<td>14</td>
<td>11</td>
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For field diameter at any distance, multiply distance by 0.45

#### 36° Lens Tube

**Center beam intensity:** 25554 candela

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<td>9.0 (29.5)</td>
<td>10.3 (33.7)</td>
<td>11.6 (37.7)</td>
<td>12.8 (42.1)</td>
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<tr>
<td>Center illuminance (lux)</td>
<td>1597</td>
<td>710</td>
<td>399</td>
<td>256</td>
<td>177</td>
<td>130</td>
<td>100</td>
<td>79</td>
<td>64</td>
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<tr>
<td>Center illuminance (candela)</td>
<td>148</td>
<td>66</td>
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<td>12</td>
<td>9</td>
<td>7</td>
<td>6</td>
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For field diameter at any distance, multiply distance by 0.64

#### 50° Lens Tube

**Center beam intensity:** 12393 candela

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<th>Distance (ft.)</th>
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<tbody>
<tr>
<td>Field-angle diameter (ft.)</td>
<td>3.9 (12.8)</td>
<td>5.8 (19.2)</td>
<td>7.8 (25.5)</td>
<td>9.7 (31.9)</td>
<td>11.7 (38.3)</td>
<td>13.6 (44.7)</td>
<td>15.6 (51.1)</td>
<td>17.5 (57.5)</td>
<td>19.5 (63.9)</td>
</tr>
<tr>
<td>Center illuminance (lux)</td>
<td>775</td>
<td>344</td>
<td>194</td>
<td>124</td>
<td>86</td>
<td>63</td>
<td>48</td>
<td>38</td>
<td>31</td>
</tr>
<tr>
<td>Center illuminance (candela)</td>
<td>72</td>
<td>32</td>
<td>18</td>
<td>12</td>
<td>8</td>
<td>6</td>
<td>4</td>
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</table>

For field diameter at any distance, multiply distance by 0.97

For center illuminance at any distance, divide center beam intensity with distance in square [meter for lux, feet for candela]
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DIMENSIONS

PHYSICAL

Length ............................................................ 648 mm (25.5 in.)
Width ............................................................. 259 mm (10.2 in.)
Height ............................................................. 254 mm (10 in.)
Weight ............................................................ 7.7 kg (17 lb)

All measurements in mm