Wall Light: Bega
Bega Classics 2812S-PD or 2987 MH

This wall light is used in academic areas. Its contemporary style complements smooth, clean architecture such as that of the Science and Engineering Quad.

Specifications:
- Material: Unavailable.
- Size: 10.25” or 13.75” diameter, 6.25” or 7.125” depth.
- Color: Unavailable.
- Spaced as needed for 1’-candle average.
- Available in MH or HPS lamps.

Model/Manufacturer:
Bega, 2812S-PD or 2987 MH, available through Associated Lighting Representatives, Oakland, CA, 1 (510) 638-0158 (John Benson).
Wall Light: Wedge Down
Shaper “Floating” Wedge Wall Sconce Downlight

This is one of our standard options for exterior-mounted wall lights on campus. In addition to building facades, it can be used by entries or as area lighting near buildings, with approval from the Architect/Planning Office. It is also weatherproof and does not lay flush against wall surface like the uplight version. An example of this light’s use is at the Black Community Services Center. Siting shall be in accordance with the Site Furnishings Typology of Outdoor Spaces.

Specifications:
- Material: Aluminum base metal
- Two Sizes Available: 8” and 11”, optional sharp-edge available
- Color: Oxidized Brass

Model/Manufacturer:
Shaper Lighting: “Floating” Wedge Wall Sconce #682-WP Series, available through Cal-Lighting, 6111 Bollinger Canyon Rd Suite 110 San Ramon CA 94583
Contact: Melinda LaValle 925.242.0111 melinda.lavalle@cal-lighting.com

Black Community Services Center (shown here with blunt-nose option)
Wall Light: Wedge Uplight

Shaper Wedge Uplight

This is one of our standard options for exterior-mounted wall lights on campus. In addition to building facades, it can be used by entries or as area lighting near buildings, with approval from the Architect/Planning Office. It is also weatherproof and lies flush against the wall surface. An example of this light’s use is at the Graduate School of Business. Siting shall be in accordance with the Site Furnishings Typology of Outdoor Spaces.

Specifications:
- Material: Natural Finish Solid Bronze.
- Size: 12” x 12” façade, 12.5” depth.
- Color: Bronze (see above for Material).

Model/Manufacturer:
Wall Light: ‘Millenium’
Kenall “Millennium” MR Series

This wall mounted, full or half moon shaped lighting is used on building facades and at entries. This light has been used in many Housing area improvement projects, such as the Cowell Cluster dorms, and is known to be tough and damage resistant. All exterior lighting installations, new and retrofit, require approval from University Architect/Campus Planning and Design Office.

Specifications:
• Material: Aluminum base and polycarbonate lens.
• Size: 13” or 17.5” diameter, based on surrounding scale.
• Color: Matte Black
• Spaced as needed.
• Compact fluorescent or high pressure sodium lamps.

Model/Manufacturer:

Cowell Cluster Residences
Wall Light: Eave
Kim Lighting, CFL1

This is a special condition fixture, suited for use under eaves where it can be hidden from view yet provide path or general lighting. Existing examples can be found in Memorial Court of the Main Quad. All Campus Standards are subject to final approval by the Stanford University Architect and Planning Office.

Specifications:
- Material: Die Cast Aluminum
- Size: 10 ½”L x 5”W x 6”H
- Color: Black
- Lamp: PL Fluorescent 42 watts, 120 volts or choose appropriate wattage for location

Model/Manufacturer:
CFL1/42PL120-BL-P with fixed hood FH-CFL/BL-P
Kim Lighting, P.O. Box 60080 City of Industry, California 91716-0080
Tel: (626) 968-5666
Local Representative/Distributor: Jose Garrido, Lighting Systems
2322 6th Street, Berkeley CA 94710
JoseG@ltgsys.com  Tel: (510) 982-3925  Fax: (510) 704-4565

Memorial Court Arcade Eave, Main Quad
EXTERNAL LIGHTING STANDARDS FOR STANFORD UNIVERSITY

Lighting Plan Concept
Campus lighting standards have been developed to assure the safety of those on campus, while respecting established Stanford aesthetics and addressing economical concerns.

Distinctive lighting can strengthen the unity in parts of the campus where architecture, landscape, circulation and use patterns are consistent. Uniformity in the light level, color, and fixture type can also aid in orienting evening travelers by clearly indicating transitions between different types of areas. Circulation routes, campus core, and gathering spaces will be identified by evenly dispersed, color accurate illumination, to enhance pedestrian circulation, nighttime activities, and viewing of historically and architecturally significant buildings and landscapes.

We are currently working towards unifying the lamp types used on campus, to simplify night "color" areas. The objective is to provide uniform light color across similar use areas, identify major corridors, and provide appropriate warm or cool colors to enhance sense of place and highlight architecture. Highly efficient lamps and fixtures are also being investigated.

As the campus evolves, additional outdoor lighting needs will develop. These current standards establish a framework for selecting campus lighting fixtures and lamps at present, and may be used as a guide to maintaining existing systems and selecting new components for future needs.

<table>
<thead>
<tr>
<th>LIGHTING TYPE GUIDELINES</th>
<th>ORDERING SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHT DESCRIPTION</td>
<td>AREAS AND USES</td>
</tr>
</tbody>
</table>

ALL FIXTURES SHALL HAVE A BLACK FINISHED COLOR, EITHER APPROVED FACTORY FINISH OR KELLY MOORE 1245-407 CARBON BLACK, LOW SHEEN, WITH 1710 RED OXIDE PRIMER AS APPROPRIATE, OR EQUAL.

LAMP TYPE IS REVIEWED AND APPROVED BY THE UNIVERSITY ARCHITECT AND CAMPUS PLANNING AND DESIGN OFFICE TO MATCH OR CONTRAST WITH ADJACENT LIGHTING COLORS, DEPENDING ON FUNCTION AND CHARACTER OF THE SPACE. WATTAGE LISTED IS A GENERAL GUIDE. PROPOSED WATTAGE FOR EACH PROJECT SHOULD BE CHOSEN TO FIT SPECIFIC SITE CONDITIONS TO ASSURE THAT DESIRED LIGHTING LEVELS ARE PRODUCED.

FOR 150 WATT METAL HALIDE APPLICATIONS, USE METALARC PRO-TECH METAL HALIDE LAMPS BY OSRAM-SYLVANIA RATED AT 15,000 HOURS LIFE, OR PROPOSE LONGER LIFE LAMP

PATHS/PEDESTRIAN AREAS

10' "Capitol" series cast iron/steel pole with white polycarbonate globe top
Campus wide area light for gathering/event spaces and their entry corridors.
BLACK PLAHA approx 70' on center @ .5 footcandle 100 watt metal halide 10': PZ C20 10 ANBK; S16A 100M MED PWS TB ANBK 19' Globe: capitol series Antique Street Lamps Inc. (512) 295-3585

12' "Capitol" series cast iron/steel pole with white polycarbonate globe top
Pathway and area light in designated corridors, on the east-west axis into the SEQ, and along the north/south axis.
SEQ EAST/WEST AXIS approx 70' on center @ .5 footcandle average 100 watt metal halide 12': PZ C20 12 ANBK; S16A 100M MED PWS TB ANBK 19' Globe: capitol series Antique Street Lamps Inc. (512) 295-3585

15' "Capitol" series cast iron/steel pole with clear glass acorn top
Linear path lighting for major pedestrian malls and select parking corridors.
SERRA MALL MUSEUM WAY approx 70' on center @ .5 footcandle average 150 watt metal halide C15/20-CIS/BK-WAT20C/BK-M175QVR-LBR 19' Acorn: capitol series Antique Street Lamps Inc. (512) 295-3585

Revised 5/21/2009 UA/CPD
<table>
<thead>
<tr>
<th>LIGHT DESCRIPTION</th>
<th>AREAS AND USES</th>
<th>ON-SITE EXAMPLES</th>
<th>SPACING</th>
<th>LAMP TYPE</th>
<th>CATALOGUE ORDER NUMBER</th>
<th>BASE SIZE</th>
<th>FIXTURE</th>
<th>MANUFACTURER</th>
</tr>
</thead>
<tbody>
<tr>
<td>10' tubular aluminum pole with lantern top and glass asymmetric refractor</td>
<td>Linear path lighting, only for Escondido Village along central spine pedestrian/bike connector path.</td>
<td>ESCONDIDO VILLAGE HOUSING ALONG &quot;VILLAGE WAY&quot; PEDI/BIKE PATH</td>
<td>approx. 70' to 100' o.c. @ 5 - 1 footcandle average</td>
<td>150 watt metal halide</td>
<td>ALUM POLE: 0908-30504-T-3; UTILITY POSTOP: metal halide-PTU-15DMH-MT-B-G3-B; high pressure sodium-PTU-100HP-MT-B-G3-B</td>
<td>8&quot; - include base cover</td>
<td>Utility Postop</td>
<td>Holophane, (740) 348-9631</td>
</tr>
<tr>
<td>10' tubular aluminum pole with lantern top and glass asymmetric refractor</td>
<td>Linear path lighting throughout the academic campus along pedestrian and shared bike/pedestrian pathways.</td>
<td>CAMPUS DRIVE; SERRA STREET PEDESTRIAN PATHS</td>
<td>approx. 70' - 100' o.c. @ .5 footcandle average</td>
<td>100 watt high pressure sodium: 175 watt metal halide Palm Dr only needed for egress lighting.</td>
<td>ALUM POLE: 0908-30504-T-3; RSL-350 fixture, ball finial, 100 watt HPS; 175 watt MH. Incandescent lamp needed for egress lighting.</td>
<td>8&quot; - include base cover</td>
<td>RSL-350</td>
<td>Holophane, (740) 348-9631</td>
</tr>
<tr>
<td>12' tubular slightly tapered aluminum pole with domed disk top and flush clear tempered glass lens</td>
<td>In select courtyards, currently in the SEQ 2 as intimate seating and gathering space lighting</td>
<td>SEQ 2 QUAD, ENVIRONMENT AND ENERGY COURTYARD</td>
<td>as needed for area lighting</td>
<td>metal halide</td>
<td>Bega 8309MH, black, on 11'-8&quot; aluminum pole</td>
<td>circular base cover</td>
<td>Bega 8309</td>
<td>Bega (805) 684-0533</td>
</tr>
<tr>
<td>12' tubular aluminum pole with caged polycarbonate globe fixture top</td>
<td>A walkway light in select areas, currently planned for use in the Medical Center on the major pedestrian walkway.</td>
<td>LI KA SHING CENTER FOR LEARNING AND KNOWLEDGE, summer 2009</td>
<td>as needed for approx 1 footcandle average max</td>
<td>metal halide</td>
<td>Bega 8135MH, black, on 11'-8&quot; aluminum pole</td>
<td></td>
<td>Bega 8135</td>
<td>Bega (805) 684-0533</td>
</tr>
</tbody>
</table>

**VEHICULAR AND ROADWAY LIGHTING**

<table>
<thead>
<tr>
<th>LIGHT DESCRIPTION</th>
<th>AREAS AND USES</th>
<th>ON-SITE EXAMPLES</th>
<th>SPACING</th>
<th>LAMP TYPE</th>
<th>CATALOGUE ORDER NUMBER</th>
<th>BASE SIZE</th>
<th>FIXTURE</th>
<th>MANUFACTURER</th>
</tr>
</thead>
<tbody>
<tr>
<td>25' round tapered steel w/6' single member arm</td>
<td>Currently on streets &amp; intersections. To be phased out and replaced with Gardco form 10-EH style per Campus Drive Guidelines</td>
<td>CAMPUS DRIVE</td>
<td>as needed, 2-5FC average</td>
<td>150 W HPS</td>
<td>M2AR 15 S*A#GMN3 2 (verify w/ FO-Utilities)</td>
<td>SU III Cobrahead</td>
<td>General Electric &amp; Valmont</td>
<td></td>
</tr>
<tr>
<td>18-25' high square cruciform aluminum pole with horizontal mount luminaire and base covers</td>
<td>Parking lots</td>
<td>PALM DRIVE INTERSECTIONS AND SERRA COMPLEX PARKING LOT</td>
<td>90-120' o.c. @ 1 FC average</td>
<td>HPS 150W/250W MH 175W/250W</td>
<td>A - 14-2-3 -150HPS-120-BLA-HF (verify pole w/ FO-Utilities)</td>
<td>Gardco Form 10 - A Style</td>
<td>Gardco lighting (800) 227-0758</td>
<td></td>
</tr>
<tr>
<td>25' high square cruciform aluminum pole with horizontal mount luminaire</td>
<td>Campus Drive, at intersections and major pedestrian crossings, and to replace SU III cobraheads.</td>
<td>CLARK/CHM BIO AREA</td>
<td>as needed for 1 footcandle average max</td>
<td>250W MH</td>
<td>EH-19-1-3-250MH-277-BLA (top); CAS-25H-D1-BLA (pole)</td>
<td>Gardco Form 10 - EH Style</td>
<td>Antique Street Lamps Inc. (512) 295-3585</td>
<td></td>
</tr>
</tbody>
</table>

Revised 5/21/2009 UA/CPD
**SPECIAL LIGHTING CONDITIONS**

For the following applications, special condition lighting may be desirable:

<table>
<thead>
<tr>
<th>Light Description</th>
<th>Areas and Uses</th>
<th>On-Site Examples</th>
<th>Spacing</th>
<th>Lamp Type</th>
<th>Catalogue Order Number</th>
<th>Base Size</th>
<th>Fixture</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landscape/Entryway lighting</td>
<td>Campuswide</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Lighting Arcades</td>
<td>Campuswide</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Service Yards</td>
<td>Campuswide</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Event and Accent lighting</td>
<td>Event/art areas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building mounted, facades</td>
<td>Campuswide</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

The special condition fixtures listed below are accepted standards for the above applications and may be used on approval from the University Architect/Planning Office.

### Special Condition Fixtures

<table>
<thead>
<tr>
<th>Light Description</th>
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<th>Spacing</th>
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<th>Base Size</th>
<th>Fixture</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum or concrete bollard lights, 42” high</td>
<td>Select pedestrian areas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wall or step louvered recessed lighting</td>
<td>BLACK HOUSE</td>
<td>as needed for</td>
<td>70 watt metal halide or fluorescent</td>
<td>BEGA 2855MH 70W ED -17MH or 3126P 27W CF twin</td>
<td>recessed luminaire</td>
<td>Bega</td>
<td>(805) 684-0533</td>
<td></td>
</tr>
<tr>
<td>Wall mounted full or half moon shape lighting</td>
<td>COWELL CLUSTER</td>
<td>as needed</td>
<td>MH or HPS lamps</td>
<td>KENALL &quot;Millenium&quot; MR series, black</td>
<td>wall mounted fixture</td>
<td>Kenall</td>
<td>(847) 360-8200</td>
<td></td>
</tr>
<tr>
<td>Wall mounted wedge shape downlight</td>
<td>BRANNER DINING HALL</td>
<td>as needed</td>
<td>HPS, fluorescent, or MH lamps</td>
<td>SHAPER 682, wedge downlight bronze, patina to be dark: or aluminum, dark bronze color</td>
<td>wall mounted fixture</td>
<td>Shaper Lighting</td>
<td>(510) 234-2370</td>
<td></td>
</tr>
<tr>
<td>Copper and bronze landscape bollard lights</td>
<td>ENCINA HALL SOUTH</td>
<td>as needed for</td>
<td>HPS, fluorescent, or MH lamps</td>
<td>SHAPER 902-DB-INC-120-NC-14H-32”OA</td>
<td>bollard</td>
<td>Shaper Lighting</td>
<td>(510) 234-2370</td>
<td></td>
</tr>
<tr>
<td>Flush with grade, low temperature Uplight</td>
<td>LUCAS PED/VEHICLE ENTRY</td>
<td>as needed</td>
<td>MH at 81 CRI</td>
<td>BEGA 8850MH, 8750MH, 8851MH, 8751MH, 670</td>
<td>at grade uplight</td>
<td>Bega</td>
<td>(805) 684-0533</td>
<td></td>
</tr>
<tr>
<td>18’ Pole mounted flood lights with banner arms</td>
<td>CAMPUS CENTER STAGE AREA</td>
<td>as needed</td>
<td></td>
<td>HOLOPHANE : Sitelink TracPole SLT21800D1PO-SPCL(3) bannerSLBA24H1.00T2D1-AB-27-4, &quot;Callisto&quot; luminaire</td>
<td>pole mounted compact round flood</td>
<td>Holophane, (740) 345-9631</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SOURCES:

Antique Street Lamps, Austin, TX or Sixteen Five Hundred, 287 17th St, Suite 301, Oakland, CA 94612, rep Lucia Starinska, (510) 208-5005

Bega/US, Carpinteria, CA or Associated Lighting Representatives, 7305-D Edgewater Dr., PO Box 2265, Oakland, CA 94621, rep John Benson, (510) 638-0158, cell 510-385-4426

Holophane Lighting, through Acuity Lighting Group, 214 Oakwood Ave, Newark, OH 43055, 740-345-9631, rep Phil Heinz, (925) 968-9151, Mido Yee, (925) 275-0272

Shaper Lighting, Richmond, CA or California Architectural Lighting, 100 1st Street, San Francisco, CA 94105, rep Melinda Lavalle, (415) 777-5111

Kenall, 1020 Lakeside Drive, Gurnee, IL, 60031, or Sixteen Five Hundred (Co.), 287 17th Street, Suite 301, Oakland, CA 94612, rep Lucia Starinska, (510) 208-5005

General Electric Company, Hendersonville, NC or Associated Lighting Representatives, 7305-D Edgewater Dr., PO Box 2265, Oakland, CA 94621, rep John Benson, (510) 638-0158

Gardco, San Leandro, CA or Associated Lighting Representatives, 7305-D Edgewater Dr., PO Box 2265, Oakland, CA 94621, rep John Benson, (510) 638-0158

Valmont, or Associated Lighting Representatives, 7305-D Edgewater Dr., PO Box 2265, Oakland, CA 94621, rep John Benson, (510) 638-0158


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