Upgrade Capability: LED components may be easily upgraded in the field to increase energy efficiency. Simple retrofit can be done while fixtures are still installed on site.

Construction: For use in Hunter Douglas High Profile Series™ Baffle ceiling systems only. ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum housing for superior fit and finish. Continuous runs have hairline joints with no light leak. Runs and complex patterns can be built to match field conditions, including complex runs.

Continuous Illumination: Optimized LED arrays provide consistent illumination in custom-length runs and patterns.

Electrical: LED components by major manufacturers. Fixtures can be fitted with control interface devices and specialty LED components (consult factory). Standard Output, High Output and Custom Output options available.

Optical: 3D lenses available in medium or heavy diffusion.

**Standard Nomenclature**

<table>
<thead>
<tr>
<th>Provider</th>
<th>Output *</th>
<th>Driver Options</th>
<th>Mounting</th>
<th>Paint Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunter Douglas</td>
<td>B Standard Output</td>
<td>DVR Static Driver</td>
<td>Hunter Douglas Baffle Ceiling Integration</td>
<td>NAT Gammalux</td>
</tr>
<tr>
<td></td>
<td>H High Output</td>
<td>For Dimming Options, See pg 2</td>
<td>(Standard suspension components by Hunter Douglas. Supplemental suspension kit available (see page 5).</td>
<td>match of Hunter Douglas</td>
</tr>
<tr>
<td></td>
<td>C Custom-Programmed Output</td>
<td></td>
<td></td>
<td>Natural # 7163</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>COT Gammalux match of Hunter Douglas Cotton White # 0280</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LED Arrays in X-Sec</th>
<th>Lamp Type</th>
<th>Voltage</th>
<th>Run Length</th>
<th>Length Option</th>
<th>Shielding</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED</td>
<td>120V</td>
<td>4’ N</td>
<td>N Nominal length</td>
<td>ASLMD3.8 Acrylic Satin Lens (Medium Diffuse)</td>
<td>DL UL Damp Label</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>S Specific length</td>
<td>ASLHD3.8 Acrylic Satin Lens (Heavy Diffuse)</td>
<td>EMERG Emergency ckt.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SBO = Sensor By Others #</td>
</tr>
</tbody>
</table>

* 90+ CRI option has longer lead time and increases wattage by nom. 14.5%.
**Specifications** (continued on next page)

## Electrical

**Output:** Standard (**S**) and high (**H**) options deliver a pre-set lumen package (see chart below). Custom-programmed output (**C**) is specified as LPF, WPF or % of High Output (see Custom Programmed Output page).

**Static Driver:** Osram Optotronic* programmable driver, wired for static operation (**DVR**).

**0-10V Dimming:** Osram Optotronic* programmable driver, wired for 0-10v control and dimming to 10% (**ZTV10**) or to 1% (**ZTV1**).

**Step Dimming:** Generic step dimming driver, two hot inputs for 100% and 50% output (**SD2**).

**DMX Dimming:** Generic DMX driver with three loose control wires exiting fixture at power feed location (**DMX**).

**DALI Dimming:** Generic DALI driver with two loose control wires exiting fixture at power feed location (**DALI**).

**Lutron Dimming:** Generic Lutron driver with three loose control wires exiting fixture at power feed location (**LTEA2WA** for PWM providing smoothest dimming or **LTEA2WC** for EMI requirements). **LDE1**.

**White Emitter:** Nichia 757G emitters binned within 3 MacAdam ellipses in Osram or Gammalux proprietary array. 90+ CRI option with extended lead time (CRI code 9) results in nom. 14.5% drop in efficacy; increase calculated wattage by 14.5%.

**RGB:** Uses one row of Luxtech FX-RGB*. RGB with all channels at full output consumes approximately 5.9 watts per foot.

- Red channel at full output will provide approximately 3% of lumens as High Output value below.
- Green channel at full output will provide approximately 7.3% of lumens in High Output value below.
- Blue channel at full output will provide approximately 2% of lumens in High Output value below.

**Battery Pack:** Bodine BSL310LP* (**BPE**). 4W max input, 10W initial output, delivers min. 27% of High Output value per 4' length.

**LED System:** 70% lumen output (**L70**) at max 85 degrees C calculated at >60k hours. Fixtures are shipped with anti-static gloves to minimize the risk of damage to LEDs during installation. 5 year limited warranty.

**Upgrade Capability:** LED assemblies can be replaced in the future with the latest factory-provided and fully warranted components. On-board sensors, control interface devices and alternate LED components may be specified (consult factory). Fixtures bear UL & cUL Dry Location label. Damp Location label available (**DL**).

*Subject to availability; may be substituted by factory. Components and specifications may be changed without notice.

---

### LUMENS AND WATTS BY OUTPUT OPTION AND LED COLOR @ 80+ CRI*

<table>
<thead>
<tr>
<th>STANDARD OUTPUT LED</th>
<th>HIGH OUTPUT LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDIUM DIFFUSE LENS (ASLM3D.8)</td>
<td>MEDIUM DIFFUSE LENS (ASLM3D.8)</td>
</tr>
<tr>
<td>HEAVY DIFFUSE LENS (ASLH3D.8)</td>
<td>HEAVY DIFFUSE LENS (ASLH3D.8)</td>
</tr>
<tr>
<td>DELIVERS: 600.3 LPF</td>
<td>DELIVERS: 800.4 LPF</td>
</tr>
<tr>
<td>2700 K</td>
<td>2700 K</td>
</tr>
<tr>
<td>3000 K</td>
<td>3000 K</td>
</tr>
<tr>
<td>3500 K</td>
<td>3500 K</td>
</tr>
<tr>
<td>4000 K</td>
<td>4000 K</td>
</tr>
<tr>
<td>5000 K</td>
<td>5000 K</td>
</tr>
<tr>
<td>WATTS / FT.</td>
<td>WATTS / FT.</td>
</tr>
<tr>
<td>6.3</td>
<td>8.6</td>
</tr>
<tr>
<td>6</td>
<td>8.3</td>
</tr>
<tr>
<td>5.9</td>
<td>8.1</td>
</tr>
<tr>
<td>5.7</td>
<td>7.8</td>
</tr>
<tr>
<td>5.5</td>
<td>7.5</td>
</tr>
</tbody>
</table>

*ES FILES WERE CREATED USING 3800K DIOCES @80+ CRI. WATTAGE IS MULTIPLIED BY 1.09 FOR 2700K, 1.02 FOR 3000K, .88 FOR 4000K AND .93 FOR 5000K DIOCES TO MAINTAIN THE SAME DELIVERED LUMENS THROUGHOUT ALL COLOR TEMPERATURES. FOR 80+ CRI, INCREASE WATTAGE BY 14.6%. SEE ADDENDUM FOR CUSTOM PROGRAMMING.

---

## Construction

### Housing:
ARRA, RoHS, REACH and Prop 65 compliant. Extruded aluminum body 1.5” wide x 6.35” high, 6063T5, 0.070” minimum thickness. Available in one piece, unbroken lengths up to 20’. Runs of fixtures are ordered in lengths matching exact field dimensions. Factory-engineered drawings indicate the location of each board in continuous runs.

### Joiner System:
Automatic alignment, no loose parts, one tool to tighten two factory installed bolts for hairline seam. No light leaks.Fixtures that are built for continuous runs are assembled into a complete run and tested for fit and finish at the factory prior to being individually packed and shipped.

### Mounting:
Shall be integrated with Hunter Douglas Baffle Ceiling System. Standard mounting components by Hunter Douglas. Fixture also ships with one supplemental support kit # GHDB-SSK (see page 6.)
Specifications (continued)

Optical

**Acrylic Satin Lens, Medium Diffuse:** Snap-in. Shall be 100% DR acrylic ([ASLM3D.8](#)).

**Acrylic Satin Lens, Heavy Diffuse:** Snap-in. Shall be 100% DR acrylic ([ASLH3D.8](#)).

Finish

Housing is electrostatically sprayed with high solids aliphatic two component polyurethane to an average thickness of 2 mils. over acid etching primer or commercial clear anodizing. Matches Hunter Douglas standard.

Packing and Shipping

Fixtures built for continuous rows and patterns are given a specific location identifier, clearly identified on factory layout drawings, the fixture’s ID Label, protective wrapping and on each end of fixture carton. Shipping pallets are built with 2” clearance, extending beyond the length and width of cartons, providing shipping protection.

Approx. weight of 4’ module is 11 lbs. including carton. Weight of pallet and supplemental packing materials not factored in.

Technical Support

Visit CTSpecialtyCeilings.com or call 1-800-366-4327 for ceiling system information.
Photometric Reports for
STANDARD OUTPUT FIXTURES

**FIXTURE USES LENS ASLMD3D.8 (MEDIUM DIFFUSE) AND 3500 K BOARDS. @ 80+ CRI**

IESNA: LM 79-2008  
ISSUEDATE: 04/17/14  
TEST: ITL81306 MOD TO 2014 COMP & SO  
TESTLAB: ITL, INC.  
MANUFACTURER: GAMMAUX LIGHTING SYSTEMS  
LUMCAT: GB13D-1SODED35-ASLM3D.8  
LAMPS: 73605 PLPG2-Lin-1100-835-280x19-DC

Efficacy (Total): 100.8 LPW  
DISTRIBUTION % UP: 13%  
DISTRIBUTION % DOWN: 86%  
CIE CLASSIFICATION: DIRECT  

LUMINOUS OPENING: RECTANGULAR  
Width: 0.13 (Feet)  
Length: 3.83  
Height: 0.07  
INPUT WATTS: 25.4

---

**FIXTURE USES LENS ASLHD3D.8 (HEAVY DIFFUSE) AND 3500 K BOARDS. @ 80+ CRI**

IESNA: LM 79-2008  
ISSUEDATE: 04/21/14  
TEST: ITL81307 MOD TO 2014 COMP & SO  
TESTLAB: ITL, INC.  
MANUFACTURER: GAMMAUX LIGHTING SYSTEMS  
LUMCAT: GB13D-1SODED35-ASLHD3D.8  
LAMPS: 73605 PLPG2-Lin-1100-835-280x19-DC

Efficacy (Total): 87.7 LPW  
DISTRIBUTION % UP: 15%  
DISTRIBUTION % DOWN: 84%  
CIE CLASSIFICATION: DIRECT  

LUMINOUS OPENING: RECTANGULAR  
Width: 0.13 (Feet)  
Length: 3.83  
Height: 0.07  
INPUT WATTS: 25.4

---
## Photometric Reports for
### HIGH OUTPUT FIXTURES

**FIXTURE USES LENS ASLMD3D.8 (MEDIUM DIFFUSE) AND 3500 K BOARDS. @ 80+ CRI**

<table>
<thead>
<tr>
<th>IESNA:</th>
<th>LM 79-2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISSUEDATE:</td>
<td>04/17/14</td>
</tr>
<tr>
<td>TEST:</td>
<td>ITL81368 MOD TO 2014 COMP</td>
</tr>
<tr>
<td>TESTLAB:</td>
<td>ITL, INC.</td>
</tr>
<tr>
<td>MANUFACT:</td>
<td>GAMMALUX LIGHTING SYSTEMS</td>
</tr>
<tr>
<td>LUMCAT:</td>
<td>GB13D-1HOLED5-ASLM3D.8</td>
</tr>
<tr>
<td>LAMPS:</td>
<td>73605 PLPG2-Lin-1100-835-280x19-DC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EFFICACY (Total):</th>
<th>90.9 LPW</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTRIBUTION % UP:</td>
<td>15%</td>
</tr>
<tr>
<td>DISTRIBUTION % DOWN:</td>
<td>86%</td>
</tr>
<tr>
<td>CIE CLASSIFICATION:</td>
<td>DIRECT</td>
</tr>
</tbody>
</table>

**LUMINOUS OPENING:** RECTANGULAR  
- Width: 0.13 (Feet)  
- Length: 3.83  
- Height: 0.07  

**INPUT WATTS:** 37.6  

---

**Acrylic Satin Lens, Medium Diffuse (ASLM3D.8)**

---

**FIXTURE USES LENS ASLHD3D.8 (HEAVY DIFFUSE) AND 3500 K BOARDS. @ 80+ CRI**

<table>
<thead>
<tr>
<th>IESNA:</th>
<th>LM 79-2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISSUEDATE:</td>
<td>04/17/14</td>
</tr>
<tr>
<td>TEST:</td>
<td>ITL81307 MOD TO 2014 COMP</td>
</tr>
<tr>
<td>TESTLAB:</td>
<td>ITL, INC.</td>
</tr>
<tr>
<td>MANUFACT:</td>
<td>GAMMALUX LIGHTING SYSTEMS</td>
</tr>
<tr>
<td>LUMCAT:</td>
<td>GB13D-1HOLED5-ASLHD3D.8</td>
</tr>
<tr>
<td>LAMPS:</td>
<td>73605 PLPG2-Lin-1100-835-280x19-DC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EFFICACY (Total):</th>
<th>79.0 LPW</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTRIBUTION % UP:</td>
<td>15%</td>
</tr>
<tr>
<td>DISTRIBUTION % DOWN:</td>
<td>84%</td>
</tr>
<tr>
<td>CIE CLASSIFICATION:</td>
<td>DIRECT</td>
</tr>
</tbody>
</table>

**LUMINOUS OPENING:** RECTANGULAR  
- Width: 0.13 (Feet)  
- Length: 3.83  
- Height: 0.07  

**INPUT WATTS:** 37.6  

---

**Acrylic Satin Lens, Heavy Diffuse (ASLHD3D.8)**
**Mounting Details**

**Factory Drawings:** Fully dimensioned factory drawings will be provided upon receipt of purchase order.

**Factory Drawings:** Fully dimensioned factory drawings will be provided upon receipt of purchase order.

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**ATTACHMENT TO STRUCTURE DESIGNED AND PROVIDED BY OTHERS, NOT BY HUNTER DOUGLAS. INSTALLER TO ENSURE HANGING METHOD DOES NOT INTERFERE WITH THE MOVEMENT OF HANGER BRACKET INSIDE OF CHANNEL.**

**1⅜” (41mm) X 1⅜” (41mm) PRIMARY CHANNEL**

**HANGER BRACKET**

**LIGHT PROFILE**

**6” (152mm) MIN, MAX VARIES**

**1⅛” (38mm)**

**BY OTHERS**

**SUPPLEMENTAL SUSPENSION BRACKET**

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**GHD16R fixtures are intended to be installed with the same methodology as the Hunter Douglas Baffle Ceiling System in which they are integrated.**

If required by local building code or structural engineer, part # GHDB-SSK, containing two supplemental support brackets, may be ordered from Hunter Douglas.

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Gammalux Lighting Systems reserves the right to change the details of fixture design and construction at any time.
Custom Programmed Output

Custom Programmed Output can be specified to produce approximate Delivered Lumens per Foot, Percentage of High Output Value or Maximum Watts per Foot.

Delivered Lumens Per Foot
Gammax deals only in delivered lumens per foot. When working to match or exceed a competitor product’s Lumens Per Foot package, be sure you are looking at their Delivered (through the lens) lumens per foot, not their System (bare board) lumens per foot.

In the Gammax item #, use C as the Output designator and add a fixture description stating the required Lumens Per Foot value (ie: if you need 600 lumens per foot delivered by the fixture, the line note would read “Program = 600 LPF”).

Percentage of High Output Value
If the required delivered lumens per foot are not known, run lighting calculations using our High Output IES file and identify the percentage of decrease required to produce the correct lighting in the space.

In the Gammax item #, use C as the Output designator and add a fixture description stating the required percentage of decrease from our High Output value (ie: for 60% of our High Output value, the line note would read “Program = 60% of High Output”).

Maxium Watts Per Foot
In the Gammax item #, use C as the Output designator and add a fixture description stating the required Maximum Watts per Foot (ie: if you need the fixtures capped at a maximum of 7 watts per foot, the line note would read “Program = 7 WPF”).

For all three methods, custom programming capability is currently 25-175% of our High Output value. For requirements outside of this range, consult factory.