

| REV. | DESCRIPTION         | DATE     | APPROVED |
|------|---------------------|----------|----------|
| F    | Engineering Release | 10/03/12 | T. Y.    |
| G    | Added LED P/N       | 08/08/16 | J. C.    |
|      |                     |          |          |
|      |                     |          |          |

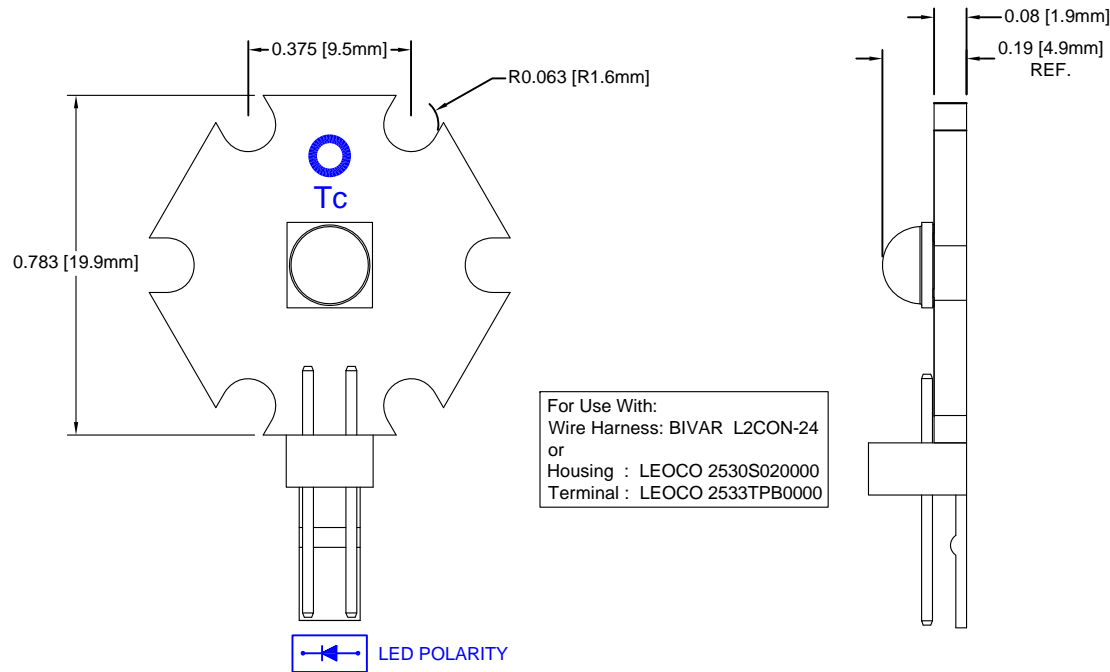


Table 1: Typical Characteristics without Additional Heat Sink

| Part Number | CCT (K) | CRI | Typical Luminous Flux @ If = 400mA, Tc=70C (lm) | Typical Luminous Flux @ If = 750mA, Tc=100C (lm) | Typical DC Forward Current, Vf (V) | Viewing Angle (°) | LED P/N  |
|-------------|---------|-----|---|--|------------------------------------|-------------------|----------|
| L2-MLC1-F   | 6500    | 65  | 144   | 236  | 2.8 ~ 2.9                          | 125               | BDL-1436 |
| L2-MLN1-F   | 4100    | 75  | 124   | 202  | 2.8 ~ 2.9                          | 125               | BDL-1437 |
| L2-MLW1-F   | 3100    | 80  | 103   | 169  | 2.8 ~ 2.9                          | 125               | BDL-1438 |

Table 2: Absolute Maximum Ratings with Thermal Management

| Part Number | CCT (K) | CRI | Typical Luminous Flux @ If = 1000mA, Tc=110C (lm) | Typical Luminous Flux @ If = 3000mA, Tc=60C (lm) | Typical DC Forward Current, Vf (V) | Viewing Angle (°) | LED P/N  |
|-------------|---------|-----|---|--|------------------------------------|-------------------|----------|
| L2-MLC1-F   | 6500    | 65  | 281   | 660  | 3.0 ~ 3.3                          | 125               | BDL-1436 |
| L2-MLN1-F   | 4100    | 75  | 241   | 566  | 3.0 ~ 3.3                          | 125               | BDL-1437 |
| L2-MLW1-F   | 3100    | 80  | 201   | 472  | 3.0 ~ 3.3                          | 125               | BDL-1438 |

NOTES:

BDL-1436: Reference Cree part number XMLAWT-00-0000-0000T6051 for characteristics.

BDL-1437: Reference Cree part number XMLAWT-00-0000-000LT40E4 for characteristics.

BDL-1438: Reference Cree part number XMLAWT-00-0000-000LT20E7 for characteristics.

|   |                 |  |                              |
|---|-----------------|--|------------------------------|
| STANDARD TOLERANCE (UNLESS OTHERWISE SPECIFIED) |                 | <br>4 THOMAS, IRVINE, CA. 92618<br>TEL: (949) 951-8808 FAX: (949) 951-3974 |                              |
| .X ± .1   | ANGULAR X° ± 1° |  |                              |
| .XX ± .02                                       |                 | TITLE: L2 Starboard Light Engine   |                              |
| .XXX ± .010                                     |                 | DESIGNED: <b>B. Oliver</b>   | DATE: <b>11/02/11</b>        |
| CHECKED: <b>M. Chen</b>                         |                 | DATE: <b>11/02/11</b>  | REVISION: <b>G</b>           |
|   |                 | CAGE CODE : <b>32559</b>   | SHEET # <b>1</b> OF <b>1</b> |
| CAD GENERATED DOCUMENT. DO NOT MEASURE DRAWING. |                 |  |                              |

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