

# H6IC-LED

## 6" ARCHITECTURAL NEW CONSTRUCTION IC LED DOWNLIGHT



**900 LUMENS** **IC RATED**

| INPUT VOLT. | INPUT FREQ. | INPUT CUR. | THD  | POWER FACTOR | INPUT POWER | LUMENS |
|-------------|-------------|------------|------|--------------|-------------|--------|
| 120/277     | 50/60Hz     | 150mA/65mA | <20% | >0.9         | 18W(+/-5%)  | 900    |
| 120/277     | 50/60Hz     | 116mA/50mA | <20% | >0.9         | 14W(+/-5%)  | 650    |

**DESCRIPTION** - 6" LED dedicated New Construction IC housing with integral LED heat management casting and driver (installed on junction box). Designed for new construction installations and suitable for use in insulation covered or non-insulation covered ceilings. Available in 650 lumens & 900 lumens. Lighting is smooth and comfortable while using 75% less energy than the equivalent 65WBR30 and 50% less than the common 18W & 26W CFL. Plus, the eco-friendly MAXILUME LED system features 70% lumen maintenance at 50,000hrs of life, with Energy Star and California Title-24 (compliances pending).

**FEATURES** - Greater light output than an 18W & 26W CFL or a 65W BR30. MAXILUME LED luminaires are ideally suited for use in hospitality, health care, commercial, retail and residential applications.



**OPTICS** - Gather the light scattered by the LED chip, shape it into a functional beam with state of the art reflectors, integrate the light through a smooth lens to minimize brightness, then top it all off with a glare reducing cone that has a 55-degree cut-off. Now you have the Elite engineered superior quality, light engine; producing 650 lumens & 900 lumens.

**DURABILITY** - Die-cast aluminum housing and heat management system are engineered for extremely long life and service period. Heat sink is attached to top of housing. The LED light engine is attached to the die-cast heat sink and is easily replaceable and upgradable. Life tests have shown the MAXILUME light engine output will be maintained at 70% of initial at 50,000hrs of operation. Our superior design allows for installation in construction that requires MAXILUME Air-Shut™ system. Our LED driver is rated for 50 to 60 Hz, produces less than 20% THD, has a power factor between 0.90 and 1.00 and is thermally protected for additional safety. MAXILUME's driver is installed on the junction box cover so it may be serviced from below the ceiling.

**REPEATABLE** - Repeatability means quality. From our chip selection process, to our driver, to the thermal management, the MAXILUME LED Module is engineered for quality. All MAXILUME LED luminaires are rated at 85+, 90+ and 98+ CRI and tested to LM-79 and LM-80 standards by a certified laboratory. California Title 24-2013 and Energy Star compliance are standard.

**DIMMABLE** - The MAXILUME LED system is shipped standard with a 0-10V driver which can be dimmed down to 1% of initial light output with a 0-10V dimmer when ordered with the following options (DIM10-120, DIM10-277). Fixtures can also be shipped with a Lutron Hi-lume A series driver which can be dimmed with Lutron Dimming Systems when ordered with the following options (LUTH-120, LUTH-277), Lutron® Hi-Lume A-Series (LUT2W-120) 2-Wire Forward Phase Control 1% Dimming in 120V only, or EldoLed 0-10V 1% Dimming, consult factory for other EldoLed driver and other driver options. Triac & Electronic Low Voltage dimming driver also available when ordered with the following options (DIMTR-120). All fixtures with 3000L and below are dimmable down to 1% and the fixtures with 4000L and above can be dimmed down to 10%.

**THERMAL PROTECTION** - Standard thermal protection device guards against improper installation and misuse of insulation material.

**MOUNTING BRACKET** - Constructed from 16 gauge steel and is supplied with C-channels that are adjustable up to 28". Mounting brackets may be adjusted up to 2-3/4" vertically from inside the housing.

**HOUSING** - Die-formed aluminum and galvanized steel for maximum heat dissipation and rust protection. Housing adjusts vertically in plaster frame to accommodate 1/2" to 1-3/8" thick ceiling. Housing is IC rated for direct contact with insulation and can be used in IC and NON-IC applications. May be installed in 2" x 8" joist construction.

**JUNCTION BOX** - UL Listed for through-branch circuit wiring, provided with four 1/2" knockouts, one 3/4" knockout and four Romex knockouts with true pry-out slots and strain clamps. Designed for straight through conduit runs. Driver is installed on the junction box cover so it may be serviced from below the ceiling.

**OUR WORD** - The MAXILUME LED lighting system carries a five-year carefree warranty for parts and components. (Labor not included.)

### DIMMING INFORMATION

**DIM10** (0-10V 1% Dimming)

**LUTH** (Lutron® Hi-Lume A-Series 3-Wire or Eco System 1% Dimming up to 4000 lumens only)

**LUT2W** (Lutron® Hi-Lume A-Series 2-Wire Forward Phase Control 1% Dimming in 120V only and up to 3000 lumens only)

**ELDO10** (EldoLed 0-10V 1% Dimming up to 3000 lumens only, consult factory for the EldoLed driver options)

**DIMTR** (Triac & Electronic Low Voltage Dimming)

Covered by U.S. Patent Numbers: D642317S, D621089S, D615239S

### LISTING

c-UL-us - listed for Damp location

c-UL-us - listed for feed Through Wiring

c-UL-us - listed for Direct Contact With Insulation

LM79 / LM80

Example: **H6IC-LED-900L-DIM10-120-MD-30K-AT-L631-W-WH**

| TYPE     | 650L SERIES                          | 900L SERIES                           | VOLTAGE                      | OPTICS                               | CCT                          | CRI                            | AIR-SHUT                    | EMERGENCY                    | TRIM                                      |                                            |                                            | BAFFLE                      | REFLECTOR                    | TRIM/RING                   |  |
|----------|--------------------------------------|---------------------------------------|------------------------------|--------------------------------------|------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------|------------------------------|-----------------------------|--|
| H6IC-LED | <input type="checkbox"/> 650L-DIMTR* | <input type="checkbox"/> 900L-DIMTR*  | <input type="checkbox"/> 120 | <input type="checkbox"/> MD (Medium) | <input type="checkbox"/> 27K | <input type="checkbox"/> 85+   | <input type="checkbox"/> AT | <input type="checkbox"/> EMG | <input type="checkbox"/> L631             | <input type="checkbox"/> L642 (650L only)  | <input type="checkbox"/> L696 (650L only)  | <input type="checkbox"/> W  | <input type="checkbox"/> BZ  | <input type="checkbox"/> BK |  |
|          | <input type="checkbox"/> 650L-LUTH   | <input type="checkbox"/> 900L-LUTH    | <input type="checkbox"/> 277 | Standard                             | <input type="checkbox"/> 30K | <input type="checkbox"/> 90+   |                             |                              | <input type="checkbox"/> L607             | <input type="checkbox"/> L658 (650L only)  | <input type="checkbox"/> L601(650L only)   | <input type="checkbox"/> P  | <input type="checkbox"/> CL  | <input type="checkbox"/> WH |  |
|          | <input type="checkbox"/> 650L-DIM10  | <input type="checkbox"/> 900L-DIM10   | <input type="checkbox"/> 347 | <input type="checkbox"/> ND (Narrow) | <input type="checkbox"/> 35K | <input type="checkbox"/> 98+** |                             |                              | <input type="checkbox"/> L611             | <input type="checkbox"/> L641 (650L only)  | <input type="checkbox"/> L601L (650L only) | <input type="checkbox"/> SN | <input type="checkbox"/> CP  | <input type="checkbox"/> CH |  |
|          | <input type="checkbox"/> 650L-LUT2W* | <input type="checkbox"/> 900L-LUT2W * |                              |                                      | <input type="checkbox"/> 40K |                                |                             |                              | <input type="checkbox"/> L676 (650L only) | <input type="checkbox"/> L655 (650L only)  | <input type="checkbox"/> L687 (650L only)  | <input type="checkbox"/> CP | <input type="checkbox"/> RG  | <input type="checkbox"/> PB |  |
|          | <input type="checkbox"/> 650L-ELDO10 | <input type="checkbox"/> 900L-ELDO10  |                              |                                      | <input type="checkbox"/> 50K |                                |                             |                              | <input type="checkbox"/> L635 (650L only) | <input type="checkbox"/> L652 (650L only)  | <input type="checkbox"/> L688 (650L only)  | <input type="checkbox"/> BZ | <input type="checkbox"/> MB  | <input type="checkbox"/> SN |  |
|          |                                      |                                       |                              |                                      | (85+CRI only)                |                                |                             |                              | <input type="checkbox"/> L636 (650L only) | <input type="checkbox"/> L612 (650L only)  | <input type="checkbox"/> L685 (650L only)  |                             | <input type="checkbox"/> W   | <input type="checkbox"/> CP |  |
|          |                                      |                                       |                              |                                      |                              |                                |                             |                              | <input type="checkbox"/> L656 (650L only) | <input type="checkbox"/> L605 (650L only)  | <input type="checkbox"/> L681 (650L only)  |                             | <input type="checkbox"/> SN  | <input type="checkbox"/> BZ |  |
|          |                                      |                                       |                              |                                      |                              |                                |                             |                              | <input type="checkbox"/> L675 (650L only) | <input type="checkbox"/> L605L (650L only) | <input type="checkbox"/> L680 (650L only)  |                             | <input type="checkbox"/> SHZ |                             |  |
|          |                                      |                                       |                              |                                      |                              |                                |                             |                              | <input type="checkbox"/> L657 (650L only) | <input type="checkbox"/> L606 (650L only)  |                                            |                             |                              |                             |  |
|          |                                      |                                       |                              |                                      |                              |                                |                             |                              | <input type="checkbox"/> L659 (650L only) | <input type="checkbox"/> L606L (650L only) |                                            |                             |                              |                             |  |
|          |                                      |                                       |                              |                                      |                              |                                |                             |                              |                                           |                                            |                                            |                             |                              |                             |  |
|          |                                      |                                       |                              |                                      |                              |                                |                             |                              |                                           |                                            |                                            |                             |                              |                             |  |

\* DIMTR and LUT2W options only available in 120 Volt. \*\* 98+ CRI is available in 27K, 30K and 40K only

**MAXILUME**

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ISSUE 16F28 Rev. 0.2

LED

6"

6 INCH ARCHITECTURAL LED IC DOWNLIGHT

**L631W-WH** - PHENOLIC STEPPED BAFFLE



**BAFFLE FINISH:**  
W - WHITE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L631P-BK** - PHENOLIC STEPPED BAFFLE



**BAFFLE FINISH:**  
P - BLACK

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L631SN-SN** - METAL STEPPED BAFFLE



**BAFFLE FINISH:**  
SN - SATIN NICKEL

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L631CP-CP** - METAL STEPPED BAFFLE



**BAFFLE FINISH:**  
CP - COPPER

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L631BZ-BZ** - METAL STEPPED BAFFLE



**BAFFLE FINISH:**  
BZ - BRONZE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607CL-WH** - REFLECTOR



**REFLECTOR FINISH:**  
CL - CLEAR (CHROME)

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607MB-WH** - REFLECTOR



**REFLECTOR FINISH:**  
MB - BLACK

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607RG-WH** - REFLECTOR



**REFLECTOR FINISH:**  
RG - GOLD

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607W-WH** - REFLECTOR



**REFLECTOR FINISH:**  
W - WHITE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607CP-CP** - REFLECTOR



**REFLECTOR FINISH:**  
CP - COPPER

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607SN-SN** - REFLECTOR



**REFLECTOR FINISH:**  
SN - STAIN NICKEL

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607BZ-BZ** - REFLECTOR



**REFLECTOR FINISH:**  
BZ - BRONZE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L607SHZ-WH** - REFLECTOR



**REFLECTOR FINISH:**  
SHZ - SATIN HAZE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

**L611W-WH** - BAFFLE WALL WASH



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
WH

**L676W-WH** - BAFFLE W/ FROSTED LENS



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

FOR  
**WET**  
LOCATION

**L635W-WH** - BAFFLE W/ ALBALITE LENS



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

FOR  
**WET**  
LOCATION

**L636W-WH** - BAFFLE W/ FRESNEL LENS



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

FOR  
**WET**  
LOCATION

**L656W-WH** - BAFFLE W/ FROSTED DOME LENS



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ

FOR  
**WET**  
LOCATION

LED

6"

6 INCH ARCHITECTURAL LED OPTICS

**L675W-WH** - BAFFLE W/ PRISMATIC LENS



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L657CL-WH** - REFLECTOR W/ FROSTED DOME LENS



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L659CL-WH** - REFLECTOR W/ FROSTED LENS



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L642CL-WH** - REFLECTOR W/ FRESNEL LENS



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L658CL-WH** - REFLECTOR W/ PRISMATIC LENS



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L641CL-WH** - REFLECTOR W/ ALBALITE LENS



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L645WH** - DESIGNER POINT LENS



**LENS FINISH:**  
DESIGNER POINT

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L652WH** - SMOOTH FROSTED LENS



**LENS FINISH:**  
SMOOTH FROSTED

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L612WH** - SMOOTH FROSTED DOME LENS



**LENS FINISH:**  
SMOOTH FROSTED

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L605WH** - METAL FRESNEL LENS



**LENS FINISH:**  
FRESNEL - CLEAR

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L606WH** - METAL DROP OPAL LENS



**LENS FINISH:**  
DROP OPAL - FROSTED

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L601WH** - METAL ALBALITE LENS



**LENS FINISH:**  
ALBALITE - WHITE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L605L** - WHITE PLASTIC FRESNEL LENS



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L606L** - WHITE PLASTIC DROP OPAL LENS



**LENS FINISH:**  
ALBALITE - WHITE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L601L** - WHITE PLASTIC ALBALITE LENS



**LENS FINISH:**  
FRESNEL - CLEAR

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L687CL-WH** - SQUARE REFLECTOR



**REFLECTOR FINISH:**  
CL, MB, RG, W, CP, SN

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L688WH** - SQUARE ALBALITE LENS



**LENS FINISH:**  
ALBALITE - WHITE

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L685WH** - SQUARE FRESNEL LENS



**LENS FINISH:**  
FRESNEL - CLEAR

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L681BZ-WH** - SQUARE BAFFLE



**BAFFLE FINISH:**  
BZ, CP, SN, WH, P

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L680WH** - SQUARE DESIGNER POINT LENS



**LENS FINISH:**  
FROSTED

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



**L696WH** - SQUARE DESIGNER FROSTED LENS



**LENS FINISH:**  
FROSTED

**RING FINISH:**  
BK, WH, CH, PB, SN, CP, BZ



LED

6"

6 INCH ARCHITECTURAL LED OPTICS

# 6" ARCHITECTURAL DOWNLIGHT

## PHOTOMETRY

### H6IC-LED-650L-DIMTR-120-L607-SHZ-SHZ

INPUT WATTS: 14

LUMENS: 672

CRI: 85+

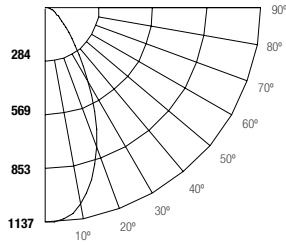
EFFICACY: 57.7

CCT: 4000K

TEST NO.: ELT-00165

SPACING CRITERIA: 0.74

#### Candle Power Distribution (Candelas)



| Cone of Light     |                             |               |
|-------------------|-----------------------------|---------------|
| 4.0               | 63.7                        | 6.9'          |
| 8.0               | 15.9                        | 13.9'         |
| 12.0              | 7.1                         | 20.8'         |
| 16.0              | 4.0                         | 27.7'         |
| 20.0              | 2.5                         | 34.6'         |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

#### Zonal Lumens Summary

| Zone | Lumens | %Lamp  | %Fixt  |
|------|--------|--------|--------|
| 0-20 | 339.61 | 50.70  | 50.50  |
| 0-30 | 545.86 | 81.40  | 81.20  |
| 0-40 | 623.59 | 93.00  | 92.80  |
| 0-60 | 664.90 | 99.20  | 98.90  |
| 0-80 | 672.08 | 100.20 | 100.00 |
| 0-90 | 672.16 | 100.20 | 100.00 |

#### Luminance (Average candela/M<sup>2</sup>)

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 4918       | 2218        | 1789        |
| 55               | 1226       | 1186        | 1051        |
| 65               | 846        | 737         | 697         |
| 75               | 0          | 383         | 345         |
| 85               | 0          | 0           | 88          |

#### Lumens Per Zone

| Zone  | Lumens |
|-------|--------|
| 0-10  | 98.14  |
| 10-20 | 241.47 |
| 20-30 | 206.26 |
| 30-40 | 77.72  |
| 40-50 | 30.31  |
| 50-60 | 11.00  |
| 60-70 | 5.75   |
| 70-80 | 1.43   |
| 80-90 | 0.08   |

#### Candela Tabulation

| Vertical Angle | Candela at Horizontal Angle 0 |
|----------------|-------------------------------|
| 0              | 1019                          |
| 5              | 977                           |
| 15             | 801                           |
| 25             | 415                           |
| 35             | 158                           |
| 45             | 63                            |
| 55             | 12                            |
| 65             | 6                             |
| 75             | 0                             |
| 85             | 0                             |
| 90             | 0                             |

#### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

| RC                | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |     |     | 0%  |     |     |     |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | RW  | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% |
| ROOM CAVITY RATIO | 0   | 119 | 119 | 119 | 119 | 117 | 117 | 117 | 117 | 111 | 111 | 111 | 107 | 107 | 107 | 102 | 102 | 102 | 100 | 102 | 102 | 102 | 100 | 94  |
| 1                 | 114 | 111 | 109 | 107 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 94  | 98  | 97  | 96  | 94  | 89  |
| 2                 | 109 | 104 | 101 | 97  | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 92  | 94  | 92  | 90  | 89  | 83  |
| 3                 | 104 | 98  | 93  | 90  | 90  | 102 | 97  | 92  | 89  | 94  | 90  | 87  | 92  | 89  | 86  | 89  | 87  | 85  | 87  | 86  | 85  | 83  | 83  | 78  |
| 4                 | 99  | 92  | 87  | 83  | 83  | 97  | 91  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 85  | 82  | 80  | 81  | 85  | 82  | 80  | 78  | 74  |
| 5                 | 95  | 87  | 82  | 78  | 78  | 93  | 86  | 81  | 77  | 84  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 78  | 75  | 74  | 70  | 70  | 66  |
| 6                 | 91  | 82  | 77  | 73  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  | 79  | 75  | 72  | 77  | 74  | 71  | 74  | 70  | 67  | 66  | 63  | 60  |
| 7                 | 87  | 78  | 73  | 69  | 69  | 85  | 77  | 72  | 68  | 76  | 72  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 70  | 67  | 64  | 63  | 60  | 57  |
| 8                 | 83  | 74  | 69  | 65  | 65  | 82  | 74  | 68  | 65  | 73  | 68  | 65  | 72  | 67  | 64  | 71  | 67  | 64  | 67  | 64  | 61  | 60  | 57  | 54  |
| 9                 | 80  | 71  | 65  | 62  | 62  | 79  | 70  | 65  | 61  | 69  | 65  | 61  | 68  | 64  | 61  | 68  | 64  | 61  | 68  | 64  | 61  | 60  | 57  | 54  |
| 10                | 76  | 67  | 62  | 59  | 59  | 75  | 67  | 62  | 58  | 66  | 62  | 58  | 65  | 61  | 58  | 65  | 61  | 58  | 65  | 61  | 58  | 57  | 54  | 51  |

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

### H6IC-LED-900L-DIM10-120-L607-SHZ-SHZ

INPUT WATTS: 18

LUMENS: 1046

CRI: 85+

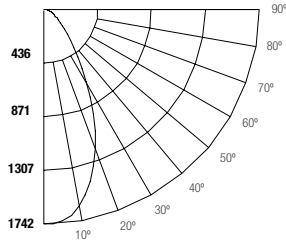
EFFICACY: 58

CCT: 4000K

TEST NO.: ELT-00157

SPACING CRITERIA: 0.76

#### Candle Power Distribution (Candelas)



| Cone of Light     |                             |               |
|-------------------|-----------------------------|---------------|
| 4.0               | 107.26                      | 3.3'          |
| 6.0               | 47.67                       | 4.9'          |
| 8.0               | 26.82                       | 6.6'          |
| 10.0              | 17.16                       | 8.2'          |
| 12.0              | 11.92                       | 9.8'          |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

#### Zonal Lumens Summary

| Zone | Lumens  | %Lamp  | %Fixt  |
|------|---------|--------|--------|
| 0-20 | 538.95  | 51.70  | 51.50  |
| 0-30 | 853.46  | 81.90  | 81.60  |
| 0-40 | 970.04  | 93.00  | 92.80  |
| 0-60 | 1033.77 | 99.10  | 98.90  |
| 0-80 | 1045.43 | 100.30 | 100.00 |
| 0-90 | 1045.57 | 100.30 | 100.00 |

#### Luminance (Average candela/M<sup>2</sup>)

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 7048       | 3876        | 3327        |
| 55               | 1701       | 1844        | 1756        |
| 65               | 1138       | 1041        | 1148        |
| 75               | 0          | 546         | 660         |
| 85               | 0          | 0           | 270         |

#### Lumens Per Zone

| Zone  | Lumens |
|-------|--------|
| 0-10  | 161.21 |
| 10-20 | 377.73 |
| 20-30 | 314.51 |
| 30-40 | 116.58 |
| 40-50 | 46.25  |
| 50-60 | 17.49  |
| 60-70 | 9.31   |
| 70-80 | 2.35   |
| 80-90 | 0.14   |

#### Candela Tabulation

| Vertical Angle | Candela at Horizontal Angle 0 |
|----------------|-------------------------------|
| 0              | 1716                          |
| 5              | 1647                          |
| 15             | 1304                          |
| 25             | 642                           |
| 35             | 228                           |
| 45             | 91                            |
| 55             | 17                            |
| 65             | 8                             |
| 75             | 0                             |
| 85             | 0                             |
| 90             | 0                             |

#### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

|                   | RC | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |  |  | 0% |
|-------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|----|
|                   | RW | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |  |  |    |
| ROOM CAVITY RATIO | 0  | 119 | 119 | 119 | 119 | 117 | 117 | 117 | 117 | 111 | 111 | 111 | 107 | 107 | 107 | 102 | 102 | 102 | 100 |  |  |    |
|                   | 1  | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |  |  |    |
|                   | 2  | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 100 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 89  |  |  |    |
|                   | 3  | 104 | 98  | 93  | 90  | 102 | 97  | 92  | 89  | 94  | 91  | 88  | 92  | 89  | 86  | 90  | 87  | 85  | 83  |  |  |    |
|                   | 4  | 99  | 92  | 87  | 83  | 98  | 91  | 87  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 85  | 82  | 80  | 79  |  |  |    |
|                   | 5  | 95  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  |  |  |    |
|                   | 6  | 91  | 83  | 77  | 73  | 89  | 82  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 72  | 78  | 74  | 72  | 70  |  |  |    |
|                   | 7  | 87  | 78  | 73  | 69  | 86  | 78  | 73  | 69  | 77  | 72  | 69  | 75  | 71  | 68  | 74  | 71  | 68  | 67  |  |  |    |
|                   | 8  | 83  | 75  | 69  | 65  | 82  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 63  |  |  |    |
|                   | 9  | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 64  | 61  | 60  |  |  |    |
| 10                | 77 | 68  | 63  | 59  | 76  | 68  | 62  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 65  | 61  | 59  | 57  |     |  |  |    |

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

### H6IC-LED-900L-DIM10-120-L656-W-WH

INPUT WATTS: 18

LUMENS: 814

CRI: 85+

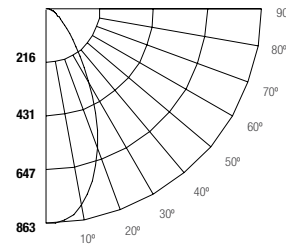
EFFICACY: 45.5

CCT: 4000K

TEST NO.: ELT-00163

SPACING CRITERIA: 0.82

#### Candle Power Distribution (Candelas)



| Cone of Light     |                             |               |
|-------------------|-----------------------------|---------------|
| 4.0               | 53.84                       | 3.8'          |
| 6.0               | 23.93                       | 5.7'          |
| 8.0               | 13.46                       | 7.6'          |
| 10.0              | 8.61                        | 9.5'          |
| 12.0              | 5.98                        | 11.4'         |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

#### Zonal Lumens Summary

| Zone | Lumens | %Lamp  | %Fixt  |
|------|--------|--------|--------|
| 0-20 | 266.78 | 32.80  | 32.80  |
| 0-30 | 467.13 | 57.50  | 57.40  |
| 0-40 | 613.51 | 75.50  | 75.40  |
| 0-60 | 766.34 | 94.30  | 94.20  |
| 0-80 | 812.98 | 100.10 | 99.90  |
| 0-90 | 813.72 | 100.20 | 100.00 |

#### Luminance (Average candela/M<sup>2</sup>)

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 11057      | 9703        | 8909        |
| 55               | 6448       | 6377        | 5966        |
| 65               | 4980       | 4627        | 4492        |
| 75               | 0          | 3214        | 3250        |
| 85               | 0          | 0           | 1684        |

#### Lumens Per Zone

| Zone  | Lumens |
|-------|--------|
| 0-10  | 78.02  |
| 10-20 | 188.76 |
| 20-30 | 200.35 |
| 30-40 | 146.38 |
| 40-50 | 95.31  |
| 50-60 | 57.53  |
| 60-70 | 35.68  |
| 70-80 | 10.95  |
| 80-90 | 0.74   |

#### Candela Tabulation

| Vertical Angle | Candela at Horizontal Angle 0 |
|----------------|-------------------------------|
| 0              | 861                           |
| 5              | 845                           |
| 15             | 689                           |
| 25             | 454                           |
| 35             | 264                           |
| 45             | 142                           |
| 55             | 67                            |
| 65             | 38                            |
| 75             | 0                             |
| 85             | 0                             |
| 90             | 0                             |

#### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

|                   | RC | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |  |  | 0% |
|-------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|----|
|                   | RW | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |  |  |    |
| ROOM CAVITY RATIO | 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 107 | 107 | 107 | 102 | 102 | 102 | 100 |  |  |    |
|                   | 1  | 113 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |  |  |    |
|                   | 2  | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |  |  |    |
|                   | 3  | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |  |  |    |
|                   | 4  | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |  |  |    |
|                   | 5  | 88  | 78  | 71  | 66  | 86  | 77  | 71  | 66  | 75  | 69  | 65  | 73  | 68  | 65  | 72  | 67  | 64  | 62  |  |  |    |
|                   | 6  | 81  | 72  | 65  | 60  | 80  | 71  | 65  | 60  | 70  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 59  | 57  |  |  |    |
|                   | 7  | 78  | 68  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 53  |  |  |    |
|                   | 8  | 74  | 63  | 56  | 52  | 73  | 63  | 56  | 52  | 61  | 56  | 51  | 60  | 55  | 51  | 59  | 55  | 51  | 49  |  |  |    |
|                   | 9  | 70  | 59  | 53  | 48  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  |  |  |    |
| 10                | 67 | 56  | 49  | 45  | 66  | 55  | 49  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 43  |     |  |  |    |

